Geotechnical Engineering

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Phase I - Environmental Site Assessment

2345 & 2351 Mer Bleue Road
Ottawa, Ontario

Prepared For

EAU Structural & Environmental Services

February 18, 2022

Report: PE5630-1

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by EAU Structural & Environmental Services to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for the properties addressed 2345 & 2351 Mer Bleue 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 Phase I Property.

Based on a review of available historical information, the Phase I Property was historically used for agricultural purposes until first developed with the existing residential dwellings sometime in the 1960's (2345 Mer Bleue Road) and the 1970's (2351 Mer Bleue Road), and has been used for residential purposes since that time. No environmental concerns were identified with respect to the historical use of the Phase I Property.

The surrounding lands within the Phase I Study Area have historically been used for agricultural and residential purposes. No environmental concerns were identified with respect to the historical use of the neighbouring properties.

Presently, the Phase I Property is occupied with the two aforementioned residential dwellings. No environmental concerns were identified with respect to the current use of the Phase I Property.

The surrounding lands within the Phase I Study Area consist of a combination of residential, agricultural, parkland, and commercial properties. No environmental concerns were identified with respect to the current use of the neighbouring properties.

Based on the findings of this assessment, it is our opinion that **a Phase II – Environmental Site Assessment will not be required for the Phase I Property.**

Recommendations

Based on the age of the subject buildings, asbestos containing building materials and lead-based paints may be present within the structures. Potential ACMs observed at the time of the site inspection include the following building materials:

2345 Mer Bleue Road

- Drywall joint compound and vinyl floor tiles.

2351 Mer Bleue Road

- Drywall joint compound, linoleum flooring, and stipple plaster ceilings.

These building materials were observed to be in good condition at the time of the site inspection and do not represent an immediate concern. It is recommended that a Designated Substance Survey (DSS) be carried out for the subject building prior to any future demolition activities.

1.0 INTRODUCTION

At the request of EAU Structural & Environmental Services, Paterson Group (Paterson) conducted a Phase I – Environmental Site Assessment (Phase I ESA) for 2345 & 2351 Mer Bleue Road, in the City of Ottawa, Ontario. Henceforth, these properties shall be referred to as 'The Phase I Property'. The purpose of this Phase I ESA was to research the past and current use of the Phase I Property and Study Area as well as to identify any environmental concerns with the potential to have impacted the Phase I Property.

Paterson was engaged to conduct this Phase I ESA by Mr. Derrick Clark, of EAU Structural & Environmental Services. Mr. Clark can be contacted via telephone at 613-869-0523.

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

This Phase I ESA report has been prepared in general accordance with Ontario Regulation 153/04, as amended under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01 (reaffirmed 2016). 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, as well as a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial, and federal agencies, and was limited within the scope-of-work, time, and budget of the project herein.

2.0 PROPERTY INFORMATION

Address:	2345 & 2351 Mer Bleue Road, Ottawa, Ontario;
Legal Description:	Part of Lot 3, Concession 11, Formerly the Township of Cumberland, in the City of Ottawa, Ontario.
Location:	The Phase I Property is located on the east side of Mer Bleue Road, approximately 75 m north of Renaud Road, in the City of Ottawa, Ontario. Refer to Figure 1 – Key Plan, appended to this report.
Latitude and Longitude:	45° 26' 25" N, 75° 29' 41" W.

Site Description:

Configuration:	Rectangular.
Site Area:	250 m^2 (approximate).
Zoning:	R1 – Development Reserve Zone.
Current Use:	The Phase I Property is currently occupied by two residential dwellings.
Services:	The Phase I Property is located within a partially municipally serviced area.

3.0 SCOPE OF INVESTIGATION

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

- Determine the historical activities on the Phase I Property 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 Phase I Property 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 (reaffirmed 2016);
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

A radius of approximately 250 m was deemed appropriate for defining the study area for this assignment, henceforth referred to as 'The Phase I Study Area'. Properties located outside of the Phase I Study Area are not considered to have had the potential to impact the Phase I Property, based on their significant distances away from the site.

First Developed Use Determination

Based on a review of available historical information, the Phase I Property was first developed with the existing residential dwellings sometime in the 1960's (2345 Mer Bleue Road) and the 1970's (2351 Mer Bleue Road).

City of Ottawa Street Directories

City of Ottawa street directories, from 1960 to 2010, were reviewed for the general area of the Phase I Property as part of this assessment.

A review of the directories indicated that the Phase I Property was historically used for residential purposes during the time period reviewed.

The surrounding lands have historically been listed as residential properties.

No potentially contaminating activities (PCAs) were identified in the directories for properties located within the Phase I Study Area.

Fire Insurance Plans

Fire insurance plans (FIPs) are not available for the general area of the Phase I Property.

4.2 Environmental Source Information

National Pollutant Release Inventory

A search of the National Pollutant Release Inventory (NPRI) database was conducted as part of this assessment. This federally managed database provides various reports and tracking information relating to the release of solid, liquid, or gaseous pollutants from industrial facilities into the natural environment.

A search of this database did not identify any pollutant release records pertaining to the Phase I Property or for any properties situated within the Phase I Study Area.

Ontario PCB Waste Storage Site Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, *"Ontario Inventory of PCB Storage Sites, April 1995"* was reviewed as part of this assessment. This document identifies all recorded active and closed PCB waste storage sites situated in the Province of Ontario.

A review of this document did not identify any former PCB waste storage sites situated on the Phase I Property or within the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, *"Waste Disposal Site Inventory in Ontario, 1991"* was reviewed as part of this assessment. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants, and coal tar distillation plants situated in the Province of Ontario.

A review of this document did not identify any former waste disposal sites situated on the Phase I Property or within the Phase I Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment, Conservation and Parks document entitled, *"Municipal Coal Gasification Plant Site Inventory, 1991"* was reviewed as part of this assessment. This document provides a reference to the locations of former plants with respect to the Phase I Property.

A review of this document did not identify any former coal gasification plants located on the Phase I Property or within the Phase I Study Area.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment.

A review of the registry did not identify any Records of Site Condition (RSCs) filed for the Phase I Property or for any properties situated within the Phase I Study Area.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants, or inspections maintained by the MECP for the Phase I Property or any of the neighbouring properties.

A response from the MECP had not been received by our firm prior to the issuance of this report.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the Phase I Property.

A response from the MECP had not been received by our firm prior to the issuance of this report.

MECP Instruments

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use, or any other similar MECP issued instruments for the Phase I Property.

A response from the MECP had not been received by our firm prior to the issuance of this report.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records for the Phase I Property.

A response from the MECP had not been received by our firm prior to the issuance of this report.

Technical Standards and Safety Authority (TSSA)

The TSSA Fuels Safety Branch in Toronto was contacted electronically, on February 17, 2022, as part of this assessment, to inquire about current and former fuel storage tanks, spills, and historical incidents for the Phase I Property as well as the neighbouring properties.

The response from the TSSA indicated that no records were identified pertaining to the Phase I Property or for any of the neighbouring properties in the Phase I Study Area.

A copy of the correspondence with the TSSA is included in Appendix 2.

OMNRF Areas of Natural and Scientific Interest (ANSI)

A search for areas of natural and scientific interest (ANSI) situated within the Phase I Study Area was conducted electronically via the Ontario Ministry of Natural Resources and Forestry (OMNRF) website.

A review of the available mapping information did not identify any ANSI sites situated on the Phase I Property or within the Phase I Study Area.

City of Ottawa Old Landfill Sites

The document prepared by Golder Associates entitled, *"Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa"*, was reviewed as part of this assessment. This document identifies the details and locations of all recorded active and closed landfill sites situated in the City of Ottawa.

A review of this document did not identify any active or closed landfill sites situated on the Phase I Property or within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI) Database

As part of this assessment, a requisition form was submitted to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI) database for any environmental records pertaining to the Phase I Property as well as any properties situated within the Phase I Study Area.

A response from the City of Ottawa had not been received by our firm prior to the issuance of this report, however, a copy of the response will be forwarded to the client should it contain any pertinent information.

A copy of the submission request has been included in Appendix 2.

ERIS Database Report

A database report, prepared by ERIS (Environmental Risk Information Services Ltd.), dated February 17, 2022, was acquired and reviewed as part of this assessment. This report provides a compilation of various provincial and federal environmental related records pertaining to any properties situated within the Phase I Study Area.

The complete ERIS report has been included in Appendix 2.

- *On-Site Records:*

The ERIS report did not identify any records associated with the Phase I Property.

- *Off-Site Records:*

The ERIS report identified ten records associated with off-site properties situated within the Phase I Study Area. The majority of these records pertain to potable drinking water wells installed within the area. A review of these records did not identify any environmental concerns with the potential to impact the Phase I Property.

4.3 Physical Setting Sources

Aerial Photographs

Historical aerial photographs of the Phase I Study Area were obtained from the National Air Photo Library and reviewed in approximate ten year intervals, beginning with the earliest available photograph.

Based on a review of these photographs, the following observations have been made:

1945 The Phase I Property, as well as the surrounding lands, appear to be vacant and used for agricultural purposes at this time. Mer Bleue Road can be seen adjacent to the west.

1955 No significant changes are apparent with respect to the Phase I Property or the surrounding lands since the time of the previous photograph.

1965 The Phase I Property appears to be developed with one of the existing residential dwellings at this time (2345 Mer Bleue Road). No significant changes are apparent with respect to the surrounding lands since the time of the previous photograph.

1976 The Phase I Property appears to be developed with the other existing residential dwelling at this time (2351 Mer Bleue Road). No significant changes are apparent with respect to the surrounding lands since the time of the previous photograph.

1991 No significant changes are apparent with respect to the Phase I Property or the surrounding lands since the time of the previous photograph.

2002 No significant changes are apparent with respect to the Phase I Property or the surrounding lands since the time of the previous photograph. The property to the west, across Mer Bleue Road, appears to be developed with a small park at this time.

2011 No significant changes are apparent with respect to the Phase I Property or the surrounding lands since the time of the previous photograph.

2019 No significant changes are apparent with respect to the Phase I Property since the time of the previous photograph. The surrounding lands to the east and south appear to be developed with residential townhomes, while the lands to the north appear to be under construction. The Phase I Property and the surrounding lands appear in this photograph as they do today.

Copies of the aerial photographs selected for review are included in Appendix 1.

Water Bodies

No water bodies are present on the Phase I Property.

The nearest named water body with respect to the Phase I Property is Mer Bleue Bog, located approximately 2.3 km to the south.

Geological Maps

Geological mapping information for the Phase I Property was obtained from The Geological Survey of Canada – Urban Geology of the National Capital Area and reviewed as part of this assessment.

Based on the available mapping information, the bedrock beneath the Phase I Property generally consists of interbedded limestone and shale of the Lindsay Formation, whereas the surficial geology consists of offshore marine sediments (clay and silt) with an overburden ranging in thickness from approximately 25 m to 50 m.

Topographic Maps

A topographic map of the Phase I Property was obtained from the Natural Resources Canada – The Atlas of Canada website and reviewed as part of this assessment.

The topographic map indicates that the general elevation of the Phase I Property is approximately 85 m above sea level, while the regional topography within the greater area is depicted as sloping downwards to the south, in the general direction of Mer Bleue Bog.

An illustration of the referenced topographic map is presented on *'Figure 2 – Topographic Map'*, appended to this report.

Physiographic Maps

A physiographic map was obtained from the Natural Resources Canada – The Atlas of Canada website and reviewed as a part of this assessment.

According to the publication and available mapping information, the Phase I Property is situated within the St. Lawrence Lowlands. According to the description provided: *"…the lowlands are plain-like areas that were affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets."* The Phase I Property is specifically located within the Central St. Lawrence Lowland area, which is rarely more than 150 m above sea level.

MECP Water Well Records

A search of the MECP Well Records website was conducted as part of this assessment. This database provides information for all recorded water wells installed within the Province of Ontario.

A search of the database identified eight well records situated within the Phase I Study Area. These records pertain to wells installed between 1961 and 2006 and used for domestic household purposes.

While the lands surrounding the Phase I Property are largely serviced with municipal water infrastructure today, there is a potential for viable drinking water wells to remain in use within Phase I Study Area.

According to the recorded stratigraphic information in the well records, the overburden stratigraphy in the vicinity of the Phase I Property generally consists of a thin layer of sand and gravel over top of soft grey/blue clay. Bedrock, consisting of limestone, was generally encountered at an average depth of approximately 25 m below ground surface.

A select number of the aforementioned well records have been included in Appendix 2.

5.0 PERSONAL INTERVIEWS

Mr. Ziad Zamat, the current property owner of 2345 Mer Bleue Road, was available at the time of the site inspection to respond to questioning about the history of the Phase I Property.

According to Mr. Zamat, the Phase I Property was first developed with the existing residential dwellings sometime in the 1960's and the 1970's and has always been used for residential purposes since that time.

While the two residences were initially serviced with private potable water wells and septic systems in the past, Mr. Zamat stated that both buildings were connected to municipal services shortly after he and his brother purchased the two properties.

Mr. Zamat stated that he was unaware of any aboveground or underground fuel storage tanks ever being present on the Phase I Property.

Mr. Zamat was unaware of any potential environmental concerns associated with the Phase I Property or with any of the neighbouring properties situated within the Phase I Study Area.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

A site inspection was carried out for the Phase I Property on February 16, 2022, between 12:00 PM and 1:00 PM. Weather conditions were overcast, with a temperature of approximately -4 °C.

The site inspection was carried out by Mr. Nick Sullivan, from the Environmental Department of Paterson Group.

In addition to the Phase I Property, the present day uses of the neighbouring properties within the Phase I Study Area were also assessed at the time of the site inspection.

6.2 Site Inspection Observations

Site Description

The Phase I Property is currently occupied with two residential dwellings, located centrally on the site. The remainder of the property largely consists of landscaped areas and asphaltic concrete driveways.

It should be noted that the Phase I Property was largely snow covered at the time of the site inspection, and as a result, a detailed assessment of the ground surface conditions could not be completed.

The site topography appears to be relatively flat, while the regional topography appears to slope gradually downwards to the south, in the general direction of Mer Bleue Bog. The Phase I Property is considered to be at grade with respect to Mer Bleue Road.

Water drainage on the Phase I Property occurs primarily via infiltration throughout the site, in addition to surface runoff towards a drainage ditch present along Mer Bleue Road. No ponded water, stressed vegetation, surficial staining, or any other indications of potential sub-surface contamination were observed on the Phase I Property at time of the site inspection.

A depiction of the Phase I Property is illustrated on *"Drawing PE5630-1 – Site Plan"*, in the Figures section of this report.

Buildings and Structures

The Phase I Property is currently occupied with the following structures:

2345 Mer Bleue Road

This parcel is currently occupied with a one-storey residential dwelling, with one basement level. Built sometime in the 1960's, the residence is constructed with a concrete block foundation and is finished on the exterior with brick and vinyl siding, in addition to a sloped, shingled roof. The residence is currently heated via a natural gas-fired furnace, located in a basement utility room.

2351 Mer Bleue Road

This parcel is currently occupied with a one-storey residential dwelling, with one basement level. Built sometime in the 1970's, the residence is constructed with a concrete block foundation and is finished on the exterior with brick and vinyl siding, in addition to a sloped, shingled roof. The residence is currently heated via a natural gas-fired furnace, located in a basement utility room.

Potential Environmental Concerns

- **Fuels and Chemical Storage**

  At the time of the site inspection, no chemical storage areas, above ground storage tanks (ASTs), or evidence indicating the presence of any underground storage tanks (USTs), were observed on the Phase I Property.

- **Hazardous Materials and Unidentified Substances**

  At the time of the site inspection, no hazardous materials, unidentified substances, spills, surficial staining, abnormal odours, stressed vegetation, or any other indications of potential sub-surface contamination were observed on the Phase I Property.

- **Polychlorinated Biphenyls (PCBs) and Transformer Oil**

  At the time of the site inspection, no electrical transformers or any other potential sources of PCBs or transformer oil were identified on the Phase I Property.

- **Waste Management**

  At the time of the site inspection, non-hazardous domestic waste and recyclables were observed to be stored in plastic bins on the exterior of the subject buildings.

Interior Assessment

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

2345 Mer Bleue Road

- The floors consist of hardwood, vinyl floor tiles, ceramic tiles, and poured concrete (basement);
- The walls consist of drywall;
- The ceilings consist of drywall;
- Lighting throughout the building is provided by LED, incandescent, and fluorescent light fixtures.

2351 Mer Bleue Road

- The floors consist of laminate flooring, ceramic tile, linoleum flooring, carpet, and poured concrete (basement);
- The walls consist of drywall;
- The ceilings consist of drywall and stipple plaster;
- Lighting throughout the building is provided by LED, incandescent, and fluorescent light fixtures.

Potentially Hazardous Building Products

- **Asbestos-Containing Materials (ACMs)**

  Based on the age of the subject buildings, asbestos containing building materials may be present within the structures. Potential ACMs observed at the time of the site inspection include the following building materials:

  2345 Mer Bleue Road

  - Drywall joint compound and vinyl floor tiles.

2351 Mer Bleue Road

- Drywall joint compound, linoleum flooring, and stipple plaster ceilings.

These building materials were observed to be in good condition at the time of the site inspection and do not represent an immediate concern.

- **Lead-Based Paints**

Based on the age of the subject buildings, lead-based paints may be present on any original or older painted surfaces.

Painted surfaces were generally observed to be in good condition at the time of the site inspection and do not represent an immediate concern.

- **Polychlorinated Biphenyls (PCBs) and Transformer Oil**

At the time of the site inspection, no potential sources of PCBs or transformer oils were identified inside the subject buildings.

- **Urea Formaldehyde Foam Insulation (UFFI)**

UFFI was not observed in the subject buildings at the time of the site inspection, however, wall cavities were not inspected for insulation type.

Other Potential Environmental Concerns

- **Interior Fuel and Chemical Storage**

At the time of the site inspection, no vent and fill pipes, aboveground fuel storage tanks or signs of underground fuel storage tanks were observed within the subject buildings.

Chemical products identified in the subject buildings were observed to be limited to domestically available cleaning products, stored properly in their original containers.

- **Ozone Depleting Substances (ODSs)**

Potential sources of ODSs observed on-site include refrigerators, freezers, exterior air conditioner units, and fire extinguishers. These appliances appeared to be in good condition at the time of the site inspection and should be regularly serviced by a licensed contractor.

- **Wastewater Discharges**

  Sump pits and floor drains were identified in the basements of both subject buildings. The water inside the pits and drains was noted to be clear and odourless at the time of the site inspection.

  Wastewater from the subject buildings (wash water and sewage) is discharged into the City of Ottawa sanitary sewer system. Roof drainage is discharged via infiltrations within the landscaped areas of the property or via surface run-off towards a drainage ditch present along Mer Bleue Road.

Neighbouring Properties

At the time of the site inspection, a survey of the neighbouring properties was conducted from publicly accessible roadways.

Land use adjacent to the Phase I Property was observed as follows:

North: Residential townhomes, followed by Décoeur Drive;

South: Residential townhomes, followed by Willow Aster Circle;

East: Residential townhomes;

West: Mer Bleue Road, followed by vacant land.

Based on the observations made at the time of the site inspection, the present day uses of the neighbouring properties are not considered to pose any potential environmental concern to the Phase I Property.

The neighbouring land use within the Phase I Study Area is depicted on *"Drawing PE5630-2 – Surrounding Land Use Plan"*, in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on a review of available historical information, the Phase I Property was first developed with the existing residential dwellings sometime in the 1960's (2345 Mer Bleue Road) and the 1970's (2351 Mer Bleue Road).

Potentially Contaminating Activities (PCAs)

Based on the findings of this Phase I ESA, no PCAs were identified on the Phase I Property.

One PCA was identified with respect to the off-site properties situated within the Phase I Study Area. This PCA is described as follows:

- 2319 Mer Bleue Road (175 m northwest) – Existing autobody repair shop.

Based on its significant separation distance, this PCA is not considered to pose any environmental concern to the Phase I Property.

Areas of Potential Environmental Concern (APECs)

Based on the findings of this Phase I ESA, no APECs were identified on the Phase I Property.

Contaminants of Potential Concern (CPCs)

Based on the findings of this Phase I ESA, no CPCs were identified on the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the available mapping information, the bedrock beneath the Phase I Property generally consists of interbedded limestone and shale of the Lindsay Formation, whereas the surficial geology consists of offshore marine sediments (clay and silt) with an overburden ranging in thickness from approximately 25 m to 50 m.

Groundwater is anticipated to be encountered within the overburden and flow in a southerly direction towards Mer Bleue Bog.

Water Bodies

No water bodies are present on the Phase I Property.

The nearest named water body with respect to the Phase I Property is Mer Bleue Bog, located approximately 2.3 km to the south

Areas of Natural and Scientific Interest

No areas of natural and scientific interest are present on the Phase I Property or within the Phase I Study Area.

Existing Buildings and Structures

The Phase I Property is currently occupied by two residential dwellings and a storage garage.

Current and Future Property Use

The Phase I Property is currently used for residential purposes.

It is our understanding that the Phase I Property is to be redeveloped with several residential townhomes.

Drinking Water Wells

While the lands surrounding the Phase I Property are largely serviced with municipal water infrastructure today, there is a potential for viable drinking water wells to remain in use within Phase I Study Area.

Neighbouring Land Use

The surrounding lands within the Phase I Study Area consist of a combination of residential, agricultural, parkland, and commercial properties.

Current land use is depicted on *"Drawing PE5630-2 – Surrounding Land Use Plan"*, in the Figures section of this report.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, no potentially contaminating activities (PCAs) or areas of potential environmental concern (APECs) were identified on the Phase I Property.

One PCA was identified with respect to the off-site properties situated within the Phase I Study Area. This PCA is described as follows:

- 2319 Mer Bleue Road (175 m northwest) – Existing autobody repair shop.

Based on its significant separation distance, this PCA is not considered to pose any environmental concern to the Phase I Property.

Contaminants of Potential Concern

Based on the findings of this Phase I ESA, no CPCs were identified on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are no PCAs or APECs associated with the Phase I Property.

The absence of any PCAs 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.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by EAU Structural & Environmental Services to conduct a Phase I – Environmental Site Assessment (Phase I ESA) for the properties addressed 2345 & 2351 Mer Bleue 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 Phase I Property.

Based on a review of available historical information, the Phase I Property was historically used for agricultural purposes until first developed with the existing residential dwellings sometime in the 1960's (2345 Mer Bleue Road) and the 1970's (2351 Mer Bleue Road), and has been used for residential purposes since that time. No environmental concerns were identified with respect to the historical use of the Phase I Property.

The surrounding lands within the Phase I Study Area have historically been used for agricultural and residential purposes. No environmental concerns were identified with respect to the historical use of the neighbouring properties.

Presently, the Phase I Property is occupied with the two aforementioned residential dwellings. No environmental concerns were identified with respect to the current use of the Phase I Property.

The surrounding lands within the Phase I Study Area consist of a combination of residential, agricultural, parkland, and commercial properties. No environmental concerns were identified with respect to the current use of the neighbouring properties.

Based on the findings of this assessment, it is our opinion that **a Phase II – Environmental Site Assessment will not be required for the Phase I Property.**

Recommendations

Based on the age of the subject buildings, asbestos containing building materials and lead-based paints may be present within the structures. Potential ACMs observed at the time of the site inspection include the following building materials:

2345 Mer Bleue Road

- Drywall joint compound and vinyl floor tiles.

2351 Mer Bleue Road

- Drywall joint compound, linoleum flooring, and stipple plaster ceilings.

These building materials were observed to be in good condition at the time of the site inspection and do not represent an immediate concern. It is recommended that a Designated Substance Survey (DSS) be carried out for the subject building prior to any future demolition activities.

9.0 STATEMENT OF LIMITATIONS

This Phase I – Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and generally meets the requirements of CSA Z768-01 (reaffirmed 2016). 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 as well as 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 Phase I Property 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 EAU Structural & Environmental Services. Permission and notification from EAU Structural & Environmental Services and Paterson Group Inc. will be required prior to the release of this report to any other party.

Paterson Group Inc.

Nick Sullivan, B.Sc.

Mark S. D'Arcy, P.Eng., QP$_{ESA}$

Report Distribution:

- EAU Structural & Environmental Services
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

- ❒ Natural Resources Canada: Air Photo Library.
- ❒ Natural Resources Canada: The Atlas of Canada.
- ❒ Geological Survey of Canada: Surficial and Subsurface Mapping.
- ❒ Environment Canada: National Pollutant Release Inventory.
- ❒ National Archives of Canada.

Provincial Records

- ❒ MECP: Freedom of Information and Privacy Office.
- ❒ MECP: Municipal Coal Gasification Plant Site Inventory, 1991.
- ❒ MECP: Waste Disposal Site Inventory, 1991.
- ❒ MECP: Brownfields Environmental Site Registry.
- ❒ MECP: Water Well Inventory.
- ❒ Ontario PCB Waste Storage Site Inventory.
- ❒ Office of Technical Standards and Safety Authority, Fuels Safety Branch.
- ❒ Ministry of Natural Resources and Forestry Areas of Natural Significance.
- ❒ 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: eMap website.
- ❒ City of Ottawa: Historical Land Use Inventory Database
- ❒ City of Ottawa: document entitled, "Old Landfill Management Strategy, Phase I – Identification of Sites", prepared by Golder Associates, 2004.

Local Information Sources

- ❒ Personal Interviews.

Public Information Sources

- ❒ ERIS Database Report.
- ❒ Google Earth.
- ❒ Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5630-1 – SITE PLAN

DRAWING PE5630-2 – SURROUNDING LAND USE PLAN

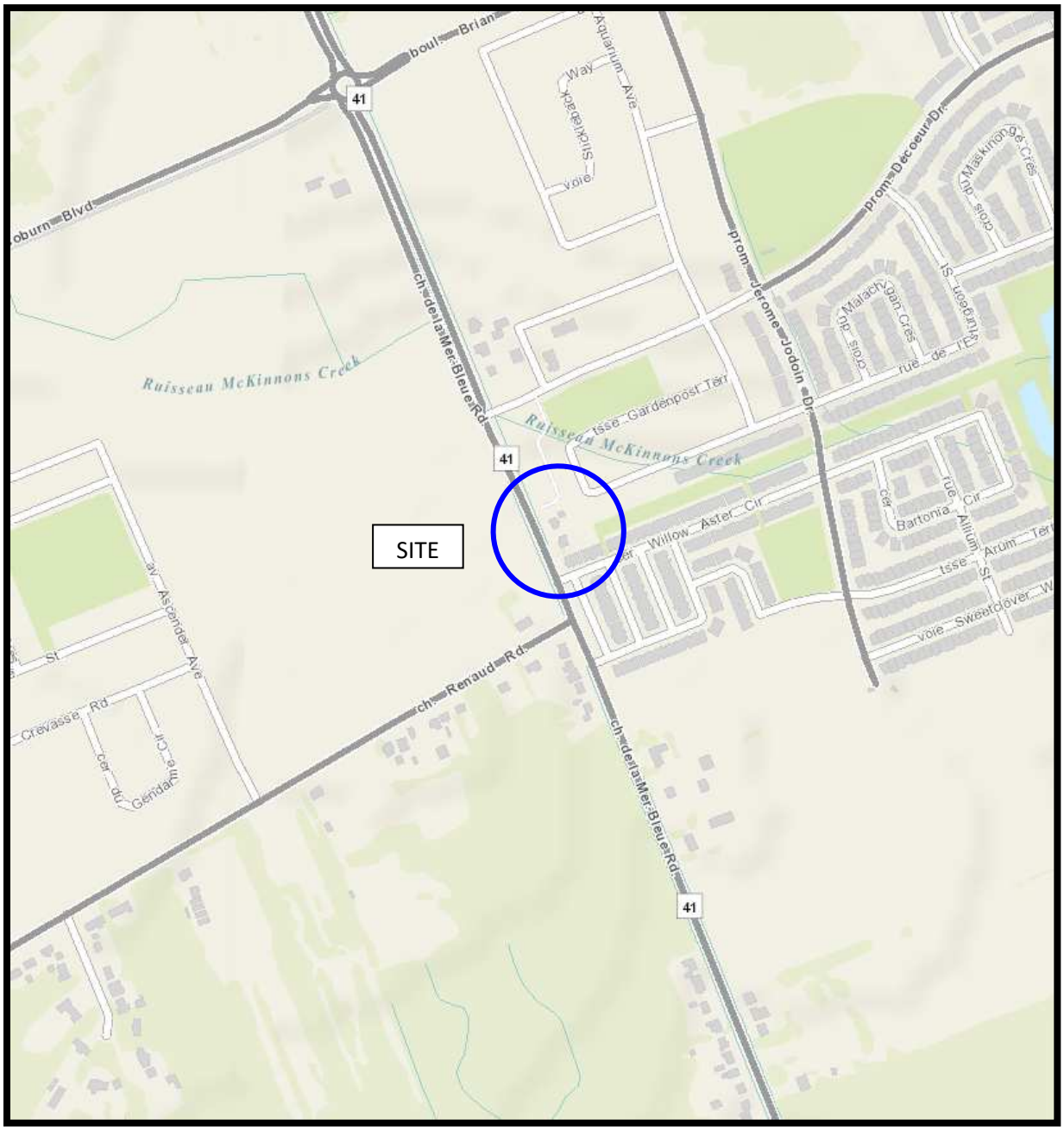


FIGURE 1

KEY PLAN

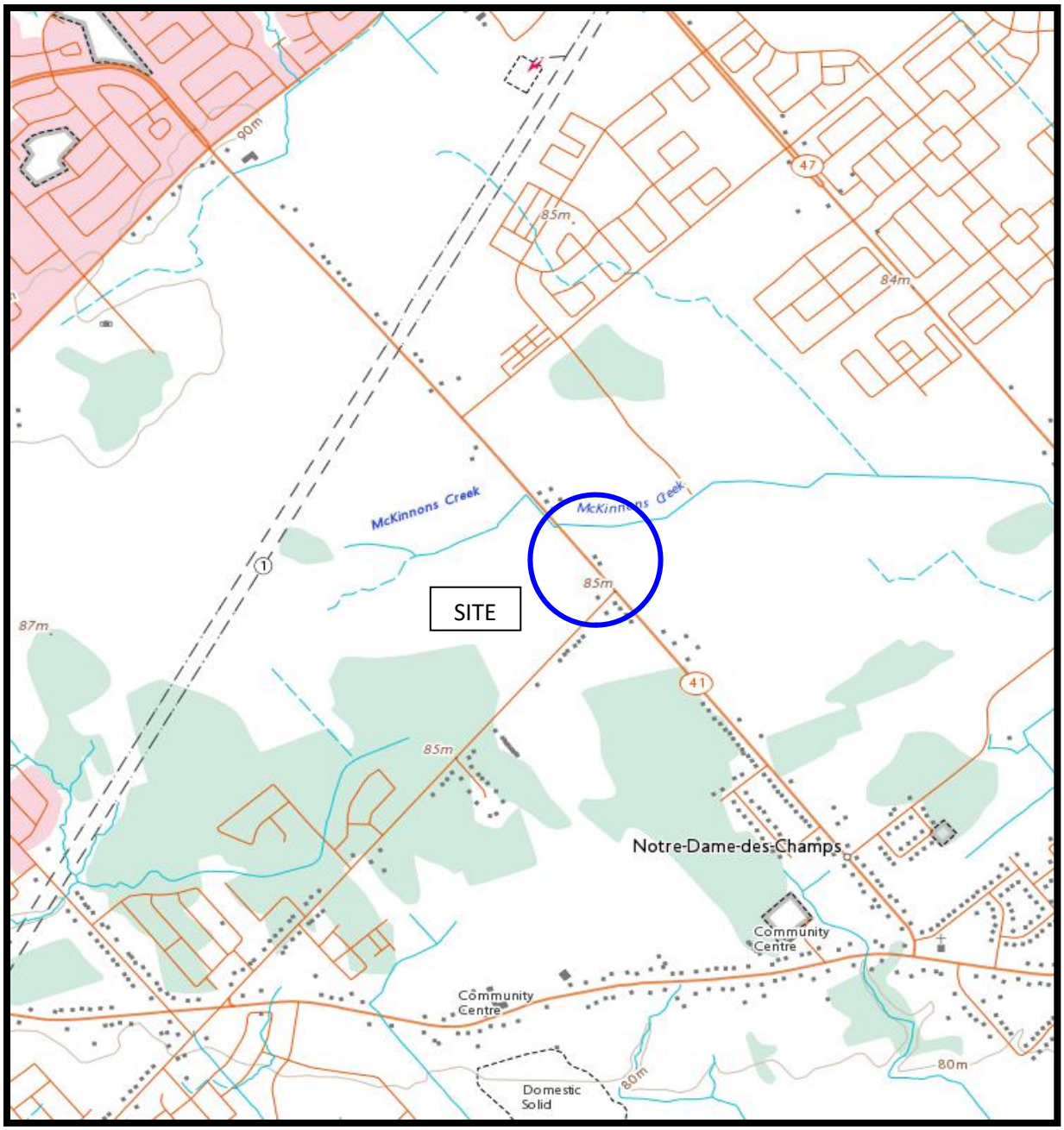


FIGURE 2

TOPOGRAPHIC MAP

GARDENPOST TERRACE

94 GARDENPOST TERRACE
RESIDENTIAL DEVELOPMENT

277 WILLOW ASTER CIRCLE
RESIDENTIAL DEVELOPMENT

HELENIUM LANE

WILLOW ASTER CIRCLE

RESIDENTIAL

TREED HEDGE

LANDSCAPED

LANDSCAPED

281 - 293 WILLOW ASTER CIRCLE
RESIDENTIAL

2331 MER-BLEUE ROAD
RESIDENTIAL DEVELOPMENT

STORAGE GARAGE

LANDSCAPED

2345 MER-BLEUE ROAD
RESIDENTIAL DWELLING

LANDSCAPED

2351 MER-BLEUE ROAD
RESIDENTIAL DWELLING

ASPHALTIC CONCRETE DRIVEWAY

LANDSCAPED

ASPHALTIC CONCRETE DRIVEWAY

LANDSCAPED

MER - BLEUE ROAD

SCALE: 1:400

0 5 10 15 20 25m

255 CREVASSE ROAD
RESIDENTIAL DEVELOPMENT

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

EAU STRUCTURAL & ENVIRONMENTAL SERVICES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
2345 & 2351 MER BLEUE ROAD

OTTAWA, ONTARIO

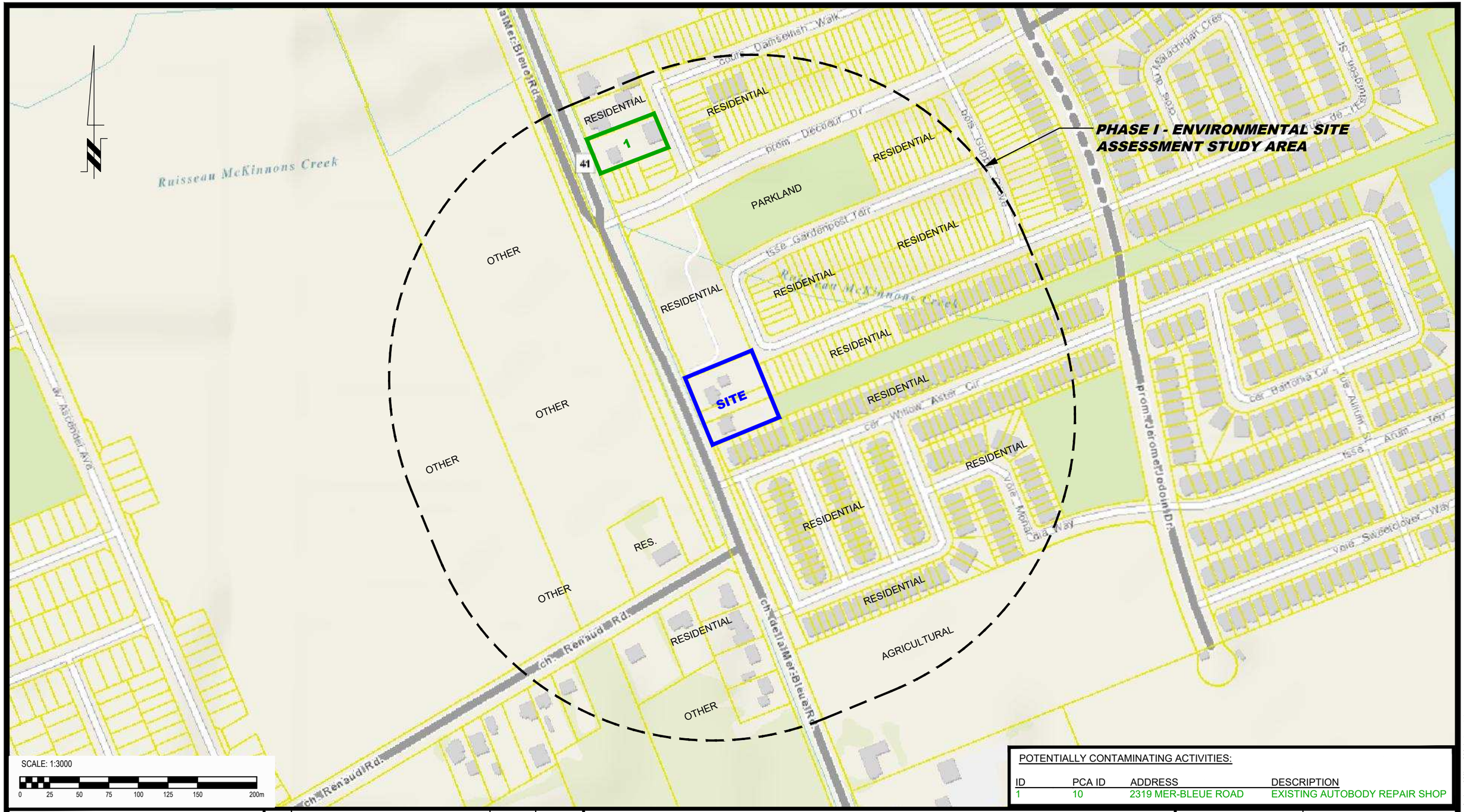
Title:

SITE PLAN

Scale: 1:400	Date: 02/2022
Drawn by: JM	Report No.: PE5630-1
Checked by: NS	Dwg. No.: PE5630-1
Approved by: MSD	Revision No.:

11x17

p:\autocad drawings\environmental\pe56xx\pe5630\pe5630-1 phase i.dwg



SCALE: 1:3000

0 25 50 75 100 125 150 200m

POTENTIALLY CONTAMINATING ACTIVITIES:

ID	PCA ID	ADDRESS	DESCRIPTION
1	10	2319 MER-BLEUE ROAD	EXISTING AUTOBODY REPAIR SHOP

patersongroup
consulting engineers

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

NO.	REVISIONS	DATE	INITIAL

EAU STRUCTURAL & ENVIRONMENTAL SERVICES

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
2345 & 2351 MER BLEUE ROAD

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:3000	Date: 02/2022
Drawn by: JM	Report No.: PE5630-1
Checked by: NS	Dwg. No.: PE5630-2
Approved by: MSD	Revision No.:

11x17

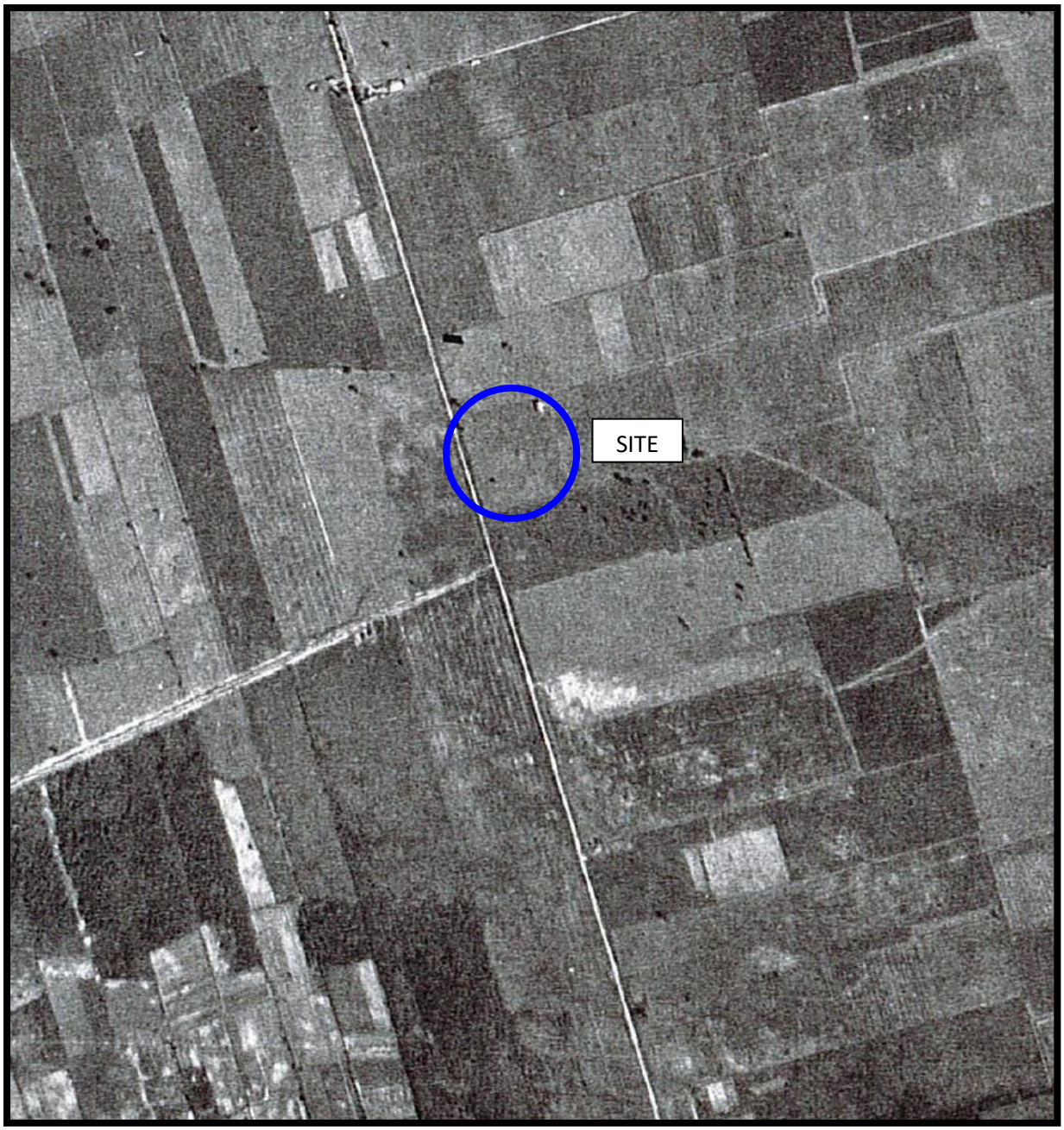
p:\autocad drawings\environmental\pe56xx\pe5630\pe5630-1 phase i.dwg

APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1955

AERIAL PHOTOGRAPH
1965

AERIAL PHOTOGRAPH
1976

AERIAL PHOTOGRAPH
1991

AERIAL PHOTOGRAPH
2002

AERIAL PHOTOGRAPH
2011

AERIAL PHOTOGRAPH
2019

Site Photographs

PE5630 2345 & 2351 Mer Bleue Road, Ottawa, Ontario February 16, 2022

Photograph 1: View of the western portion of 2345 Mer Bleue Road, facing north from Mer Bleue Road.

Photograph 2: View of the western portion of 2345 Mer Bleue Road, facing south from Mer Bleue Road.

Photograph 3: View of the eastern portion of 2345 Mer Bleue Road, facing west.

Photograph 4: View of the western portion of 2351 Mer Bleue Road, facing northeast from Mer Bleue Road.

Photograph 5: View of the western portion of 2351 Mer Bleue Road, facing southeast from Mer Bleue Road.

Photograph 6: View of the eastern portion of 2351 Mer Bleue Road, facing west.

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH REQUEST

MECP WATER WELL RECORDS

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI SEARCH REQUEST

ERIS DATABASE REPORT

Ontario

Ministry of
Environment
and Energy

Freedom of Information Request

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

Requester Data

Name, Company Name, Mailing Address and Email Address of Requester

Nick Sullivan
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5
Email address: nsullivan@patersongroup.ca

Telephone/Fax Nos.

Tel. 613-226-7381
Fax 613-226-6344

Your Project/Reference No.

PE5630

Signature/Print /Name of Requester

Nick Sullivan

For Ministry Use Only

FOI Request No.

Date Request Received

Fee Paid

☐ ACCT ☐ CHQ ☐ VISA/MC ☐ CASH

☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR
☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

2345 Mer Bleue Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

Mr. Ziad Zamat

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters

Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.

	Specify Year(s) Requested
Environmental concerns (General correspondence, occurrence reports, abatement)	all
Orders	all
Spills	all
Investigations/prosecutions ➤ Owner **AND** tenant information must be provided	all
Waste Generator number/classes	all

Certificates of Approval ➤ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, reports, etc.

	SD	Specify Year(s) Requested
air - *emissions*		1986-present
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*		1986-present
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*		1986-present
waste water - *industrial discharges*		1986-present
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator*sites		1986-present
waste systems - *PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste*		1986-present
pesticides - *licenses*		1986-present

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

Ontario

Ministry of Environment and Energy

Freedom of Information Request

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

Requester Data

Name, Company Name, Mailing Address and Email Address of Requester

Nick Sullivan
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5
Email address: nsullivan@patersongroup.ca

Telephone/Fax Nos.
Tel. 613-226-7381
Fax 613-226-6344

Your Project/Reference No.
PE5630

Signature/Print /Name of Requester
Nick Sullivan

For Ministry Use Only

FOI Request No.

Date Request Received

Fee Paid

☐ ACCT ☐ CHQ ☐ VISA/MC ☐ CASH

☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR
☐ SAC ☐ IEB ☐ EAA ☐ EMR ☐ SWA

Request Parameters

Municipal Address / Lot, Concession, Geographic Township **(Municipal address essential for cities, towns or regions)**

2351 Mer Bleue Road, Ottawa, Ontario

Present Property Owner(s) and Date(s) of Ownership

Mr. Joseph Zamat

Previous Property Owner(s) and Date(s) of Ownership

Present/Previous Tenant(s),(if applicable)

Search Parameters

Files older than 2 years may require $60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.

	Specify Year(s) Requested
Environmental concerns (General correspondence, occurrence reports, abatement)	all
Orders	all
Spills	all
Investigations/prosecutions ➤ Owner **AND** tenant information must be provided	all
Waste Generator number/classes	all

Certificates of Approval ➤ Proponent information must be provided

1985 and prior records are searched manually. **Search fees in excess of $300.00** could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). **If supporting documents are also required, mark SD box** and specify type e.g. maps, plans, reports, etc.

	SD	Specify Year(s) Requested
air - *emissions*		1986-present
water - *mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)*		1986-present
sewage - *sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations*		1986-present
waste water - *industrial discharges*		1986-present
waste sites - *disposal, landfill sites, transfer stations, processing sites, incinerator*sites		1986-present
waste systems - *PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste*		1986-present
pesticides - *licenses*		1986-present

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

31G6e

UTM 18 46 13 010 E
15 50 31 485 N
Elev. 4 02 85
Basin 25

GROUND WATER BRANCH
15 AUG 1961 No 1502
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Gloucester

[redacted] 4 OF Lot 1 Date completed 11 (day) May (month) 61 (year)

[redacted]ress R . R. # 1, Orleans Ont

Casing and Screen Record

Inside diameter of casing 2"
Total length of casing 87'
Type of screen —
Length of screen —
Depth to top of screen —
Diameter of finished hole 2"

Pumping Test

Static level 15'
Test-pumping rate 8 G.P.M.
Pumping level 25
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear
Recommended pumping rate 8 G.P.M.
with pump setting of 25 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
sand	0	10	87	fresh
blue clay	10	78		
brown shale	78	85		
GREY limestone	85	87		

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

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

Drilling or Boring Firm G. CHARBONNEAU
DIAMOND DRILLER ARTESIAN WELLS
MODERN HOME BUILDERS
ORLEANS, ONT.
R.R. 1 Navan 9R-25

Address

Licence Number 224

Name of Driller or Borer G. Charbonneau

Address R. R. # 1, Box 194, Orleans, Ont.

Date May 11, 1961

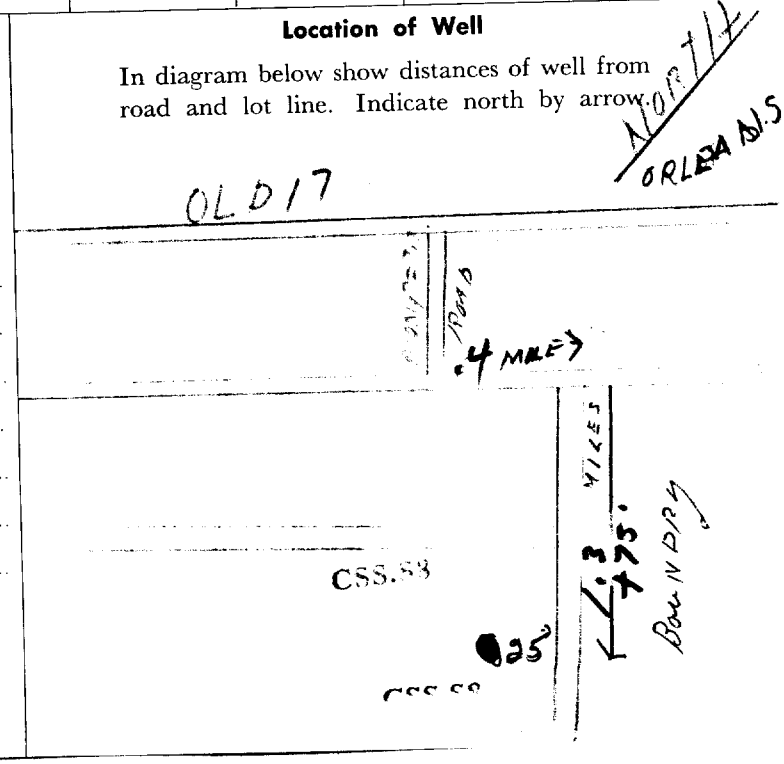
Gérard Charbonneau
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



31G6c

UTM 1 1 8 Z 4 6 1 3 2 0 E
5 5 0 3 1 4 6 0 N
Elev. 4 0 2 8 5
Basin 4 2 5

GROUND WATER BRANCH
15 No 1502
AUG 15 1961
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Gloucester

Con. 4 O F Lot 1 Date completed May 18, 1961 (day month year)

[redacted]dress R. R. # 1, Navan, Ont.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 91

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level 15'

Test-pumping rate 8 G.P.M.

Pumping level 25'

Duration of test pumping 2Hrs

Water clear or cloudy at end of test Clear

Recommended pumping rate 6 G.P.M.

with pump setting of 20' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Sand	0'	6'	91	
Blue Clay	6	85'		
Shale	85	91		fresh

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

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

Drilling or Boring Firm G. CHARBONNEAU
DIAMOND DRILLER ARTESIAN WELLS
MODERN HOME BUILDERS
ORLEANS, ONT.
R.R. 1 Navan 9R-25

Address

Licence Number 224

Name of Driller or Borer G. Charbonneau

Address R. R. # 1, Box 194, Orleans, Ont.

Date May 18, 1961

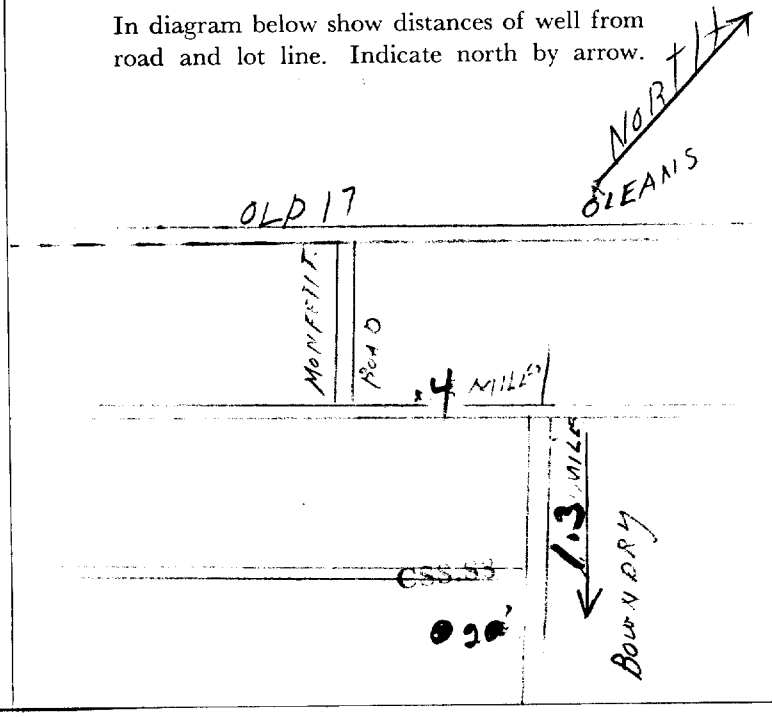
Gérard Charbonneau
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



C9

UTM 18 Z 461275 E

5 R 5031540 N

Elev. 4 R 0285

Basin 25

31G6e

15 № 1509

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Gloucester

Con 4 OF Lot 1 Date completed 10 (day) August (month) 1965 (year)

[redacted]ress Orleans, Ont.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level flow

Test-pumping rate 5 G.P.M.

Pumping level 25'

Duration of test pumping 2 hrs.

Water clear or cloudy at end of test clear

Recommended pumping rate 5 G.P.M.

with pump setting of 25 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
blue clay	0	100		
grey limestone	100	102	102	fresh

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

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

Drilling or Boring Firm

G.Charbonneau, Diamond & Cable Drilling,

Address R.R.#1, Box 194, Orleans, Ont.

Licence Number 1631

Name of Driller or Borer Roland Wolfe

Address Clarence Creek, Ont.

Date 10 August, 1965.

Gerard Charbonneau

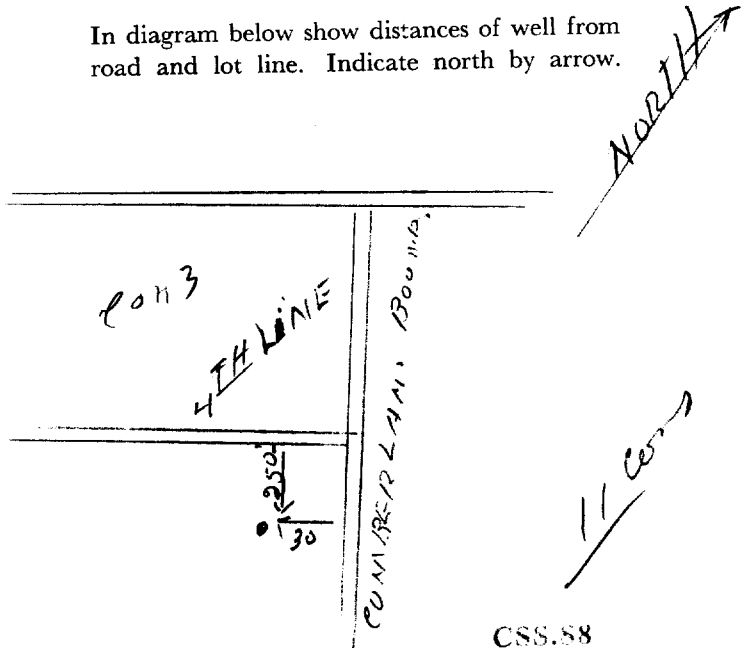
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.S8

31G6e

UTM 18 Z 461180 E

5 R 5031545 N

Elev. 4 R 0288

Basin 25

15 № 1510

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton

Township, Village, Town or City Gloucester

Con 4 OF Lot 1

Date completed 24th August, 1965 (day month year)

[redacted]ress R.R. # 2, Navan, Ont.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level flow

Test-pumping rate 6 G.P.M.

Pumping level 20'

Duration of test pumping 2 hrs.

Water clear or cloudy at end of test clear

Recommended pumping rate 6 G.P.M.

with pump setting of 20 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
blue clay	0	90	94	fresh
coarse gravel	90	94		

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

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

Drilling or Boring Firm G.Charbonneau, Diamond & Cable Drilling,

Address R.R.# 1, Box 194, Orleans, Ont.

Licence Number 1631

Name of Driller or Borer G. Charbonneau

Address R.R.# 1, Box 194, Orleans, Ont.

Date 24th August, 1965.

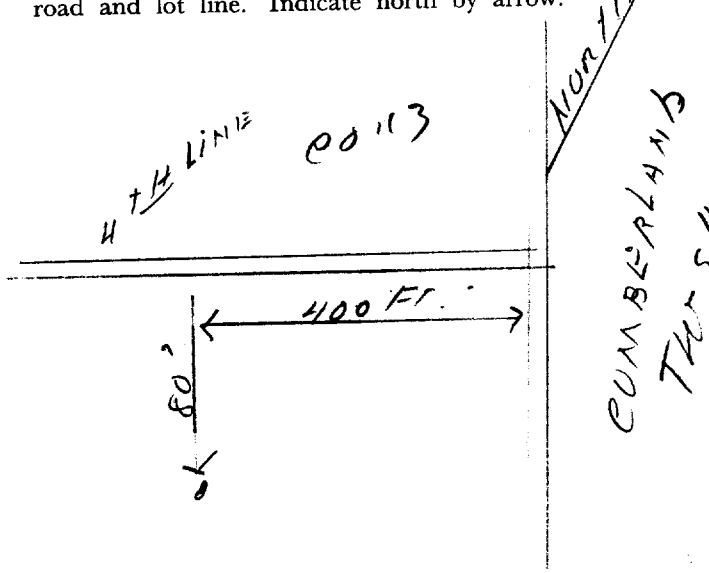
Gerard Charbonneau
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.58

UTM 18 Z 461285 E 31G 6e

5 R 5031500 N

Elev. 4 R 0288

Basin 25

15 No. 1511

Dec 14/1966

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Gloucester

Con. 4 OF Lot 1 Date completed 31 May, 1966. (day month year)

[redacted]ress 292 Altha, Eastview, Ont.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 95'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level 1'

Test-pumping rate 10 G.P.M.

Pumping level 20'

Duration of test pumping 2 hrs.

Water clear or cloudy at end of test clear

Recommended pumping rate 6 G.P.M.

with pump setting of 20 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
blue clay	0	92		
grey limestone	92	97	97	fresh

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

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

Drilling or Boring Firm G. Charbonneau, Diamond & Cable Drilling,

Address R.R.# 1, Box 194, Orleans, Ont.

Licence Number 2156

Name of Driller or Borer Roland Wolfe

Address Clarence Creek, Ont.

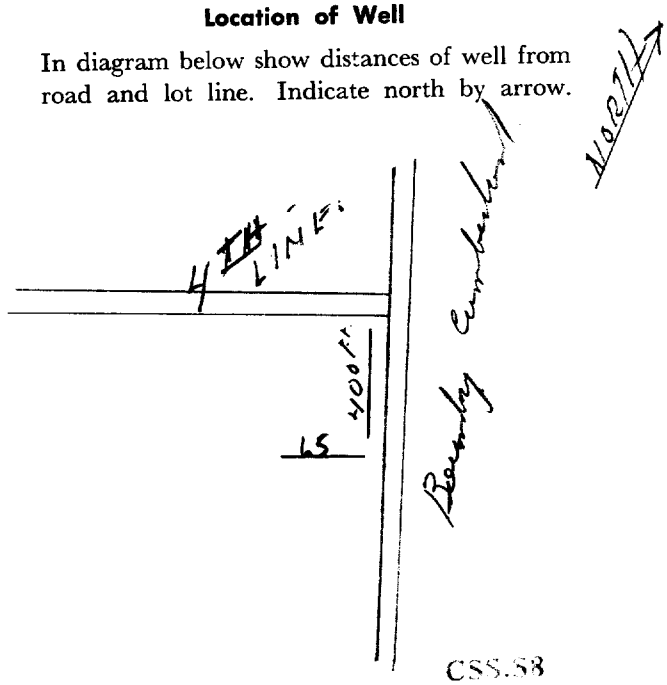
Date 31 May, 1966.

Gerard Charbonneau

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7 15M-60-4138

CSS.58

OWRC COPY

31G6e

UTM 18 Z 461290 E

5 R 5031460 N

Elev. 4 R 9288

Basin 25

15 № 1513

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton

Township, Village, Town or City Gloucester

Con 4 OF Lot 1

Date completed 3 July 1966. (day month year)

[redacted]ress Navan, Ont.

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 105'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 2"

Pumping Test

Static level 1'

Test-pumping rate 10 G.P.M.

Pumping level 20'

Duration of test pumping 2 hrs.

Water clear or cloudy at end of test clear

Recommended pumping rate 6 G.P.M.

with pump setting of 20 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
blue clay	0	97		
gravel	97	103		
grey limestone	103	105	105	fresh

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

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

Drilling or Boring Firm

G.Charbonneau, Diamond & Cable Drilling,

Address R.R.# 1, Box 194, Orleans, Ont.

Licence Number 2156

Name of Driller or Borer Roland Wolfe

Address ClarenceCreek, Ont.

Date 3 July 1966.

Gérard Charbonneau

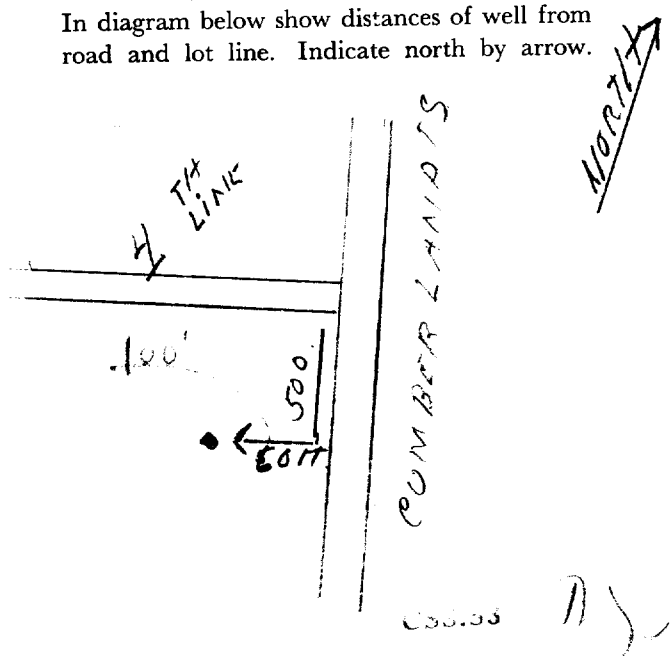
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



316/16e

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water Management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 560254 | MUNICIP. 56003 | CON. GON | 11

COUNTY OR DISTRICT: Russell

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Cumberland

CON., BLOCK, TRACT, SURVEY, ETC.: 11

LOT: 004

[redacted] van, Ont.

DATE COMPLETED: DAY 03 MO 09 YR 69

UTM | RC. 4 | ELEVATION 0285 | RC. 5 | BASIN CODE 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
blue	clay			0	75
grey	coarse gravel			75	82

1512858

31 aaastaat baa82dw

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0082	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
02"	1 ☐ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	STD	0	0082
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 02 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
005 FEET	020 FEET		020 FEET	020 FEET	020 FEET	020 FEET

IF FLOWING, GIVE RATE: GPM.

PUMP INTAKE SET AT: 20 FEET

WATER AT END OF TEST: ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP

RECOMMENDED PUMP SETTING: 025 FEET

RECOMMENDED PUMPING RATE: 0006 GPM.

50-53 000.7 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☒ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: G. Charbonneau, Diamond & Cable Drilling, 3395

LICENCE NUMBER:

ADDRESS: R. R. 1, Box 194, Orleans, Ont.

NAME OF DRILLER OR BORER: R. Wolfe

LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Gerard Charbonneau

SUBMISSION DATE: DAY 3 MO 9 YR 69

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1504 | DATE RECEIVED: 300770

DATE OF INSPECTION: | INSPECTOR:

REMARKS:

C55.58

OWRC COPY

Ontario Ministry of the Environment

Well Tag A023034 (or below)
A023034

Well Record
Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

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

Ministry Use Only
MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton | Cumberland | Pt Lt 3 | 11

RR#/Street Number/Name: #2319 Mer Bleue Road
City/Town/Village: Cumberland
Site/Compartment/Block/Tract etc.:
GPS Reading: NAD 8 3 | Zone 18 | Easting 461191 | Northing 5032176
Unit Make/Model: Mogelton
Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
	Sand, gravel			0	3.35
	Clay			3.35	23.77
	Grey limestone			23.77	103.63

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	103.63	15.23

Water Record

Water found at Metres	Kind of Water		
99.06 m	☐ Fresh	☐ Sulphur	
☐ Gas	☒ Salty	☐ Minerals	
☐ Other: TESTED			
___ m	☐ Fresh	☐ Sulphur	
☐ Gas	☐ Salty	☐ Minerals	
☐ Other:			
___ m	☐ Fresh	☐ Sulphur	
☐ Gas	☐ Salty	☐ Minerals	
☐ Other:			

After test of well yield, water was: ☐ Clear and sediment free ☒ Other, specify NOT TESTED
Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
15.88	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	24.69
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☒ Open hole		24.08	103.63

Test of Well Yield

Pumping test method: SubPump
Pump intake set at (metres): 91.44
Pumping rate (litres/min): 22.71
Duration of pumping: 1 hrs + 0 min
Final water level end of pumping: 56.38 metres
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump depth: 91.44 metres
Recommended pump ra: 22.71
If flowing give rate - (litres/min):
If pumping discontinued, give reason:

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level		1.25		56.38
1	2.12		1	55.15
2	3.21		2	55.00
3	4.25		3	54.90
4	5.25		4	54.56
5	6.25		5	54.25
10	10.85		10	52.76
15	15.95		15	50.80
20	20.65		20	48.80
25	23.73		25	46.90
30	26.72		30	45.30
40	33.40		40	41.00
50	42.70		50	37.90
60	56.38		60	35.10

Plugging and Sealing Record

☒ Annular space ☐ Abandonment

Depth set at - From	Depth set at - To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
24.08	21.03	Neat Cement Slurry	.2724
21.03	0	Bentonite Slurry	1.10

Method of Construction

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

Water Use

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

Final Status of Well

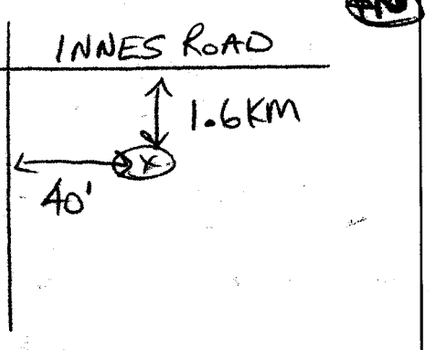
☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: AIR ROCK DRILLING CO LTD
Well Contractor's Licence No.: 1119
Business Address (street name, number, city etc.): RR#1 RICHMOND ONTARIO K0A2Z0
Name of Well Technician (last name, first name): DESAULNIERS KEN
Well Technician's Licence No.: T4
Signature of Technician/Contractor: X
Date Submitted (YYYY MM DD): 2006 06 08

Location of Well

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



Audit No.: Z 39926
Date Well Completed (YYYY MM DD): 2006 05 05
Was the well owner's information package delivered? ☒ Yes ☐ No
Date Delivered (YYYY MM DD): 2006 05 08

Ministry Use Only

Data Source:
Contractor: 1119
Date Received (YYYY MM DD): JUN 1 2006
Date of Inspection (YYYY MM DD):
Remarks:
Well Record Number:

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☒

Cette formule est disponible en franç

Nick Sullivan

From: Public Information Services <publicinformationservices@tssa.org>
Sent: February 17, 2022 12:50 PM
To: Nick Sullivan
Subject: RE: Records Search Request (PE5630)

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

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

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

Kind regards,

Sherees

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Nick Sullivan <NSullivan@patersongroup.ca>
Sent: February 17, 2022 10:14 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Records Search Request (PE5630)

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good day,

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

Mer Bleue Road: 2331, 2345, 2351;
Décoeur Drive: 560;
Chemin De La Crevasse: 255;
Gardenpost Terrace: 94;
Willow Aster Circle: 281, 289, 293;
Renaud Road: 6615.

Thank you

Nick Sullivan, B.Sc.

patersongroup
solution oriented engineering
over 60 years serving our clients

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 208
Cell: (613) 913-3608

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.

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

Historic Land Use Inventory

Application Form

Notice of Public Record

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

Municipal Freedom of Information and Protection Act

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

Background Information

***Site Address or Location:** *2345 & 2351 Mer Bleue Road*

** Mandatory Field*

Applicant/Agent Information:

Name: *Paterson Group Inc.*

Mailing Address: *154 Colonnade Road South, Ottawa, ON, K2E 7J5*

Telephone: *613-226-7381* Email Address: *nsullivan@patersongroup.ca*

Registered Property Owner Information: ☐ Same as above

Name: *Mr. Ziad Zamat*

Mailing Address:

Telephone: *613-218-6642* Email Address: *ziad_zamat@hotmail.com*

Site Details

Legal Description and PIN:	*Part of Lot 3, Concession 11, Formerly the Township of Cumberland, in the City of Ottawa, Ontario*
What is the land currently used for?	*The property is currently used for residential purposes.*

Lot frontage: _____ m Lot depth: _____ m Lot area: _____ m²

OR Lot area: (irregular lot) 250 m²

Does the site have Full Municipal Services: (•) Yes ( ) No

Required Fees

Please don't hesitate to visit the Historic Land Use Inventory website more information. Fees must be paid in full at the time of application submission.

Planning Fee $132.00 ~~$102.00~~

Submittal Requirements

The following are required to be submitted with this application:

1. **Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.

2. **Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.

3. A site plan or key plan of the property, its location and particular features.

4. Any significant dates or time frames that you would like researched.

Disclaimer
For use with HLUI Database

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

The City, in providing information from the HLUI, to Paterson Group Inc. ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.

3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.

4. Copyright is reserved to the City.

5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.

6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed:

Dated (dd/mm/yyyy): 16/02/2022

Per: Nick Sullivan

(Please print name)

Title: Environmental Geoscientist

Company: Paterson Group Inc.

patersongroup

Consulting Engineers

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

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science

www.patersongroup.ca

February 16, 2022
File: PE5630-HLUI

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

Subject: **Authorization Letter: HLUI Search**
Phase I - Environmental Site Assessment
2345 & 2351 Mer Bleue Road
Ottawa, Ontario

Dear Sir or Madam,

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

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

Name of Company/Property Owner: Ziad Zamat

Name of Representative Ziad Zamat

Authorization of Representative Ziad Zamat

Date Feb 16, 2022

DATABASE REPORT

Project Property:	*Phase I ESA* *2345 Mer-Bleue Road* *Orléans ON K4A 3T9*
Project No:	
Report Type:	*Standard Report*
Order No:	*22021400731*
Requested by:	*Paterson Group Inc.*
Date Completed:	*February 17, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: *Phase I ESA*
2345 Mer-Bleue Road Orléans ON K4A 3T9

Project No:

Coordinates:

Latitude:	*45.4402914*
Longitude:	*-75.4952823*
UTM Northing:	*5,031,982.38*
UTM Easting:	*461,264.31*
UTM Zone:	*18T*

Elevation: *287 FT*
87.46 M

Order Information:

Order No: *22021400731*
Date Requested: *February 14, 2022*
Requested by: *Paterson Group Inc.*
Report Type: *Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AST	*Aboveground Storage Tanks*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	2	2
CA	*Certificates of Approval*	Y	0	1	1
CDRY	*Dry Cleaning Facilities*	Y	0	0	0
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Manufacturers and Distributors*	Y	0	0	0
CHM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
DTNK	*Delisted Fuel Tanks*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	2	2
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EPAR	*Environmental Penalty Annual Report*	Y	0	0	0
EXP	*List of Expired Fuels Safety Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FRST	*Federal Identification Registry for Storage Tank Systems (FIRSTS)*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	0	0
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	1	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	4	4
	Total:	0	10	10	

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	BORE		ON	N/30.0	-0.15	13
2	CA	KIDDY KARS ORLEANS	2356 MER BLEU,ORLEANS,PT.LOT 1 GLOUCESTER CITY ON K4A 3T8	S/51.7	0.69	14
3	WWIS		lot 4 con 11 ON ***Well ID:*** 1512858	SE/92.9	1.46	14
4	EHS		6615 Renaud Road Navan ON K4B 1H9	SW/129.7	1.70	17
5	WWIS		2319 MERBLEUE ROAD lot 3 con 1 CUMBERLAND ON ***Well ID:*** 1536382	NNW/207.0	-0.37	17
6	WWIS		lot 1 con 4 ON ***Well ID:*** 1501510	SSW/221.9	2.67	24
7	WWIS		lot 1 con 4 ON ***Well ID:*** 1501509	SSE/224.3	2.28	26
8	PTTW	Mattamy (Mer Bleue) Limited	2405 Mer Bleue Rd, Ottawa, City 2496 Tenth Line Rd, Ottawa, City CITY OF OTTAWA ON	SSE/224.6	2.42	28
9	EHS		2388 Mer Bleue Road Ottawa ON	SSE/235.8	2.41	29
10	BORE		ON	NNW/238.4	0.43	29

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	NNW	238.38	10

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	N	29.95	1

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
KIDDY KARS ORLEANS	2356 MER BLEU,ORLEANS,PT.LOT 1 GLOUCESTER CITY ON K4A 3T8	S	51.66	2

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	6615 Renaud Road Navan ON K4B 1H9	SW	129.65	4
	2388 Mer Bleue Road Ottawa ON	SSE	235.80	9

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Dec 31, 2021 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

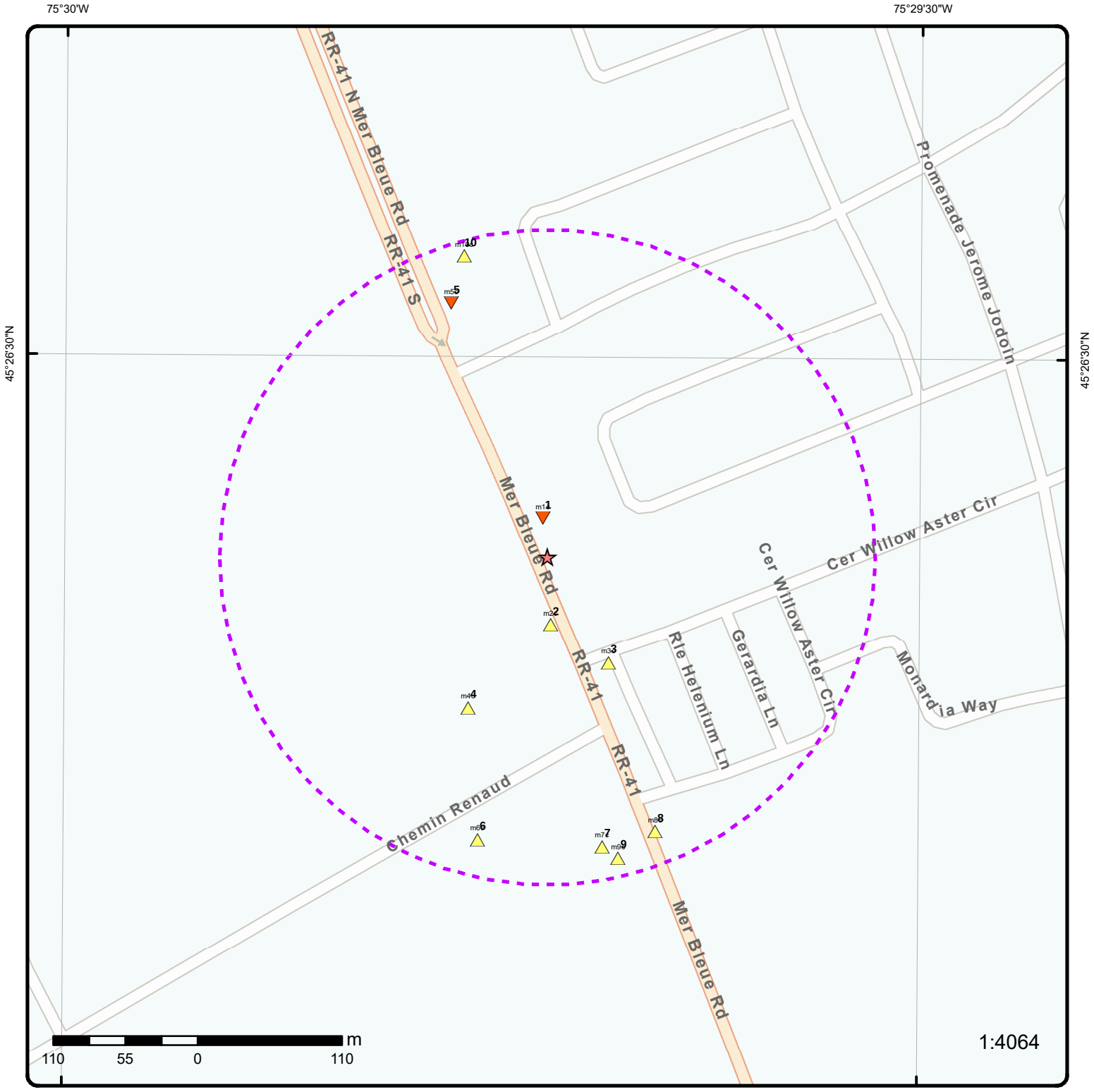
Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Mattamy (Mer Bleue) Limited	2405 Mer Bleue Rd, Ottawa, City 2496 Tenth Line Rd, Ottawa, City CITY OF OTTAWA ON	SSE	224.56	8

WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 4 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 4 con 11 ON ***Well ID:*** 1512858	SE	92.86	3
	lot 1 con 4 ON ***Well ID:*** 1501510	SSW	221.93	6
	lot 1 con 4 ON ***Well ID:*** 1501509	SSE	224.25	7

Lower Elevation	Address	Direction	Distance (m)	Map Key
	2319 MERBLEUE ROAD lot 3 con 1 CUMBERLAND ON ***Well ID:*** 1536382	NNW	207.03	5



Map: 0.25 Kilometer Radius

Order Number: 22021400731

Address: 2345 Mer-Bleue Road, Orléans, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

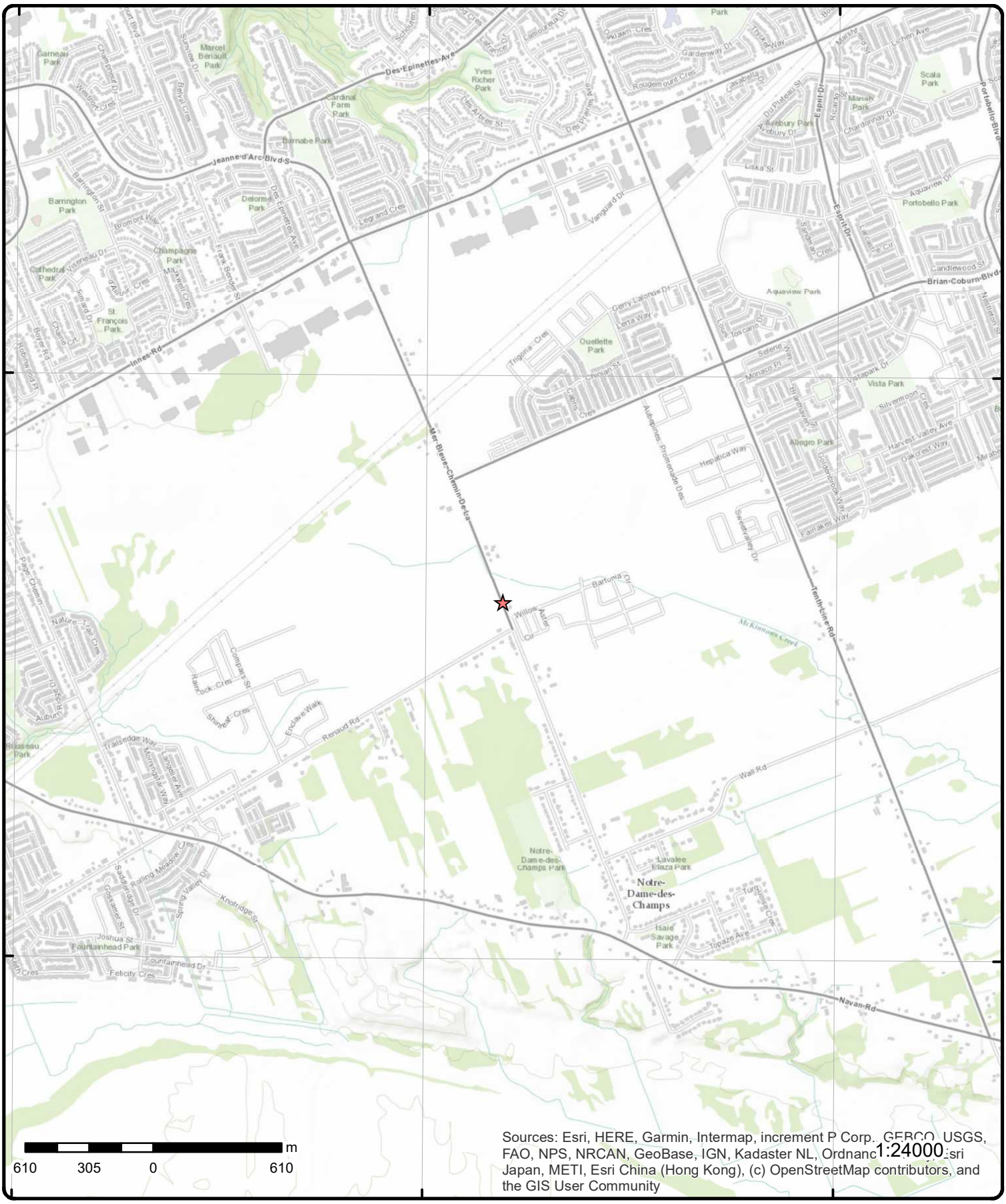
Aerial **Year: 2020**

Order Number: 22021400731

Address: 2345 Mer-Bleue Road, Orléans, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 22021400731

Address: 2345 Mer-Bleue Road, ON

Source: ESRI World Topographic Map

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	N/30.0	87.3 / -0.15	ON	BORE

Borehole ID: 616280
OGF ID: 215517069
Status:
Type: Borehole
Use:
Completion Date: JUL-1964
Static Water Level: 3.0
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 86.9
Elev Reliabil Note:
DEM Ground Elev m: 87.8
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.440559
Longitude DD: -75.495329
UTM Zone: 18
Easting: 461261
Northing: 5032012
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218403546
Top Depth: 22.9
Bottom Depth:
Material Color:
Material 1: Gravel
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: GRAVEL. WATER STABLE AT 275.0 FEET.57SMIC VELOCITY = 4900. BEDROCK. SEISMIC VELOCITY = 18000 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218403545
Top Depth: 0
Bottom Depth: 22.9
Material Color: Blue
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY. BLUE.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Confidence:	M	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 087880 NTS_Sheet: 31G06E		
Confiden 1:	Reliable information but incomplete.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	S/51.7	88.1 / 0.69	KIDDY KARS ORLEANS 2356 MER BLEU,ORLEANS,PT.LOT 1 GLOUCESTER CITY ON K4A 3T8	CA

Certificate #:	8-4129-96-
Application Year:	96
Issue Date:	7/9/1996
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	COMMERCIAL KITCHEN EXHAUST HOOD
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	SE/92.9	88.9 / 1.46	lot 4 con 11 ON	WWIS

Well ID:	1512858	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/30/1970
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	CUMBERLAND TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	004
Well Depth:		**Concession:**	11
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512858.pdf

Additional Detail(s) (Map)

Well Completed Date: 1969/09/03

Year Completed:	1969
Depth (m):	24.9936
Latitude:	45.4395704834206
Longitude:	-75.494681536822
Path:	151\1512858.pdf

Bore Hole Information

Bore Hole ID:	10034846	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	461310.80
Code OB Desc:		**North83:**	5031902.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	03-Sep-1969 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931021741
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	75.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931021742
Layer:	2
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	75.0
Formation End Depth:	82.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961512858

Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10583416
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930061718
Layer: 1
Material: 2
Open Hole or Material: GALVANIZED
Depth From:
Depth To: 82.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991512858
Pump Set At:
Static Level: 5.0
Final Level After Pumping: 20.0
Recommended Pump Depth: 25.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934639002
Test Type: Draw Down
Test Duration: 45
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934098891
Test Type: Draw Down
Test Duration: 15
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934378004

Test Type:	Draw Down
Test Duration:	30
Test Level:	20.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934896484
Test Type:	Draw Down
Test Duration:	60
Test Level:	20.0
Test Level UOM:	ft

Water Details

Water ID:	933468348
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	82.0
Water Found Depth UOM:	ft

---

4 | ***1 of 1*** | ***SW/129.7*** | ***89.2 / 1.70*** | ***6615 Renaud Road Navan ON K4B 1H9*** | ***EHS***

Order No:	20190709134	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	NY
Report Date:	11-JUL-19	**Search Radius (km):**	.25
Date Received:	09-JUL-19	**X:**	-75.496047
Previous Site Name:		**Y:**	45.439256
Lot/Building Size:			
Additional Info Ordered:			

---

5 | ***1 of 1*** | ***NNW/207.0*** | ***87.1 / -0.37*** | ***2319 MERBLEUE ROAD lot 3 con 1 CUMBERLAND ON*** | ***WWIS***

Well ID:	1536382	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	6/12/2006
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	3
Audit No:	Z39926	**Owner:**	
Tag:	A023034	**Street Name:**	2319 MERBLEUE ROAD
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	CUMBERLAND TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	003
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1536382.pdf

Additional Detail(s) (Map)

Well Completed Date: 2006/05/05
Year Completed: 2006
Depth (m): 103.63
Latitude: 45.4420300837747
Longitude: -75.4962348658538
Path: 153\1536382.pdf

Bore Hole Information

Bore Hole ID: 11550448
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05-May-2006 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83: 461191.00
North83: 5032176.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933055410
Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 3.3499999046325684
Formation End Depth: 23.770000457763672
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933055411
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 23.770000457763672
Formation End Depth: 103.62999725341797
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933055409
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.3499999046325684
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933294365
Layer: 1
Plug From: 24.079999923706055
Plug To: 21.030000686645508
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933294366
Layer: 2
Plug From: 21.030000686645508
Plug To: 0.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961536382
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11560055
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930880319
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 24.079999923706055
Depth To: 103.62999725341797
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930880318
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0.0
Depth To: 24.690000534057617
Casing Diameter: 15.880000114440918
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11569464
Pump Set At: 91.44000244140625
Static Level: 1.25
Final Level After Pumping: 56.380001068115234
Recommended Pump Depth: 91.44000244140625
Pumping Rate: 22.739999771118164
Flowing Rate:
Recommended Pump Rate: 22.709999084472656
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method:
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11630875
Test Type: Draw Down
Test Duration: 1
Test Level: 2.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630889
Test Type: Draw Down
Test Duration: 20
Test Level: 20.649999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631171
Test Type: Recovery
Test Duration: 40
Test Level: 41.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630884
Test Type: Recovery
Test Duration: 5
Test Level: 54.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630887
Test Type: Draw Down
Test Duration: 15
Test Level: 15.949999809265137
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630890
Test Type: Recovery
Test Duration: 20
Test Level: 48.79999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631170
Test Type: Draw Down
Test Duration: 40
Test Level: 33.400001525878906
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631174
Test Type: Draw Down
Test Duration: 60
Test Level: 56.380001068115234
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630880
Test Type: Recovery
Test Duration: 3
Test Level: 54.900001525878906
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630886
Test Type: Recovery
Test Duration: 10
Test Level: 52.7599983215332
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630888
Test Type: Recovery
Test Duration: 15
Test Level: 50.79999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631168

Test Type: Draw Down
Test Duration: 30
Test Level: 26.719999313354492
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630876
Test Type: Recovery
Test Duration: 1
Test Level: 55.150001525878906
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630885
Test Type: Draw Down
Test Duration: 10
Test Level: 10.850000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631173
Test Type: Recovery
Test Duration: 50
Test Level: 37.900001525878906
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630881
Test Type: Draw Down
Test Duration: 4
Test Level: 5.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630882
Test Type: Recovery
Test Duration: 4
Test Level: 54.560001373291016
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631169
Test Type: Recovery
Test Duration: 30
Test Level: 45.29999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630879
Test Type: Draw Down
Test Duration: 3
Test Level: 4.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630883
Test Type: Draw Down
Test Duration: 5
Test Level: 6.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631167
Test Type: Recovery
Test Duration: 25
Test Level: 46.900001525878906
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630877
Test Type: Draw Down
Test Duration: 2
Test Level: 3.2100000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11630878
Test Type: Recovery
Test Duration: 2
Test Level: 55.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631166
Test Type: Draw Down
Test Duration: 25
Test Level: 23.729999542236328
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631172
Test Type: Draw Down
Test Duration: 50
Test Level: 42.70000076293945
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11631175
Test Type: Recovery
Test Duration: 60
Test Level: 35.099998474121094
Test Level UOM: m

Water Details

Water ID:	934076133
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	99.05999755859375
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11681155
Diameter:	15.229999542236328
Depth From:	0.0
Depth To:	103.62999725341797
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

6 | ***1 of 1*** | ***SSW/221.9*** | ***90.1 / 2.67*** | ***lot 1 con 4 ON*** | ***WWIS***

Well ID:	1501510	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/30/1965
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	OF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501510.pdf

Additional Detail(s) (Map)

Well Completed Date:	1965/08/24
Year Completed:	1965
Depth (m):	28.6512
Latitude:	45.438349818293
Longitude:	-75.4959494468748
Path:	150\1501510.pdf

Bore Hole Information

Bore Hole ID:	10023553	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	461210.80
Code OB Desc:		**North83:**	5031767.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	24-Aug-1965 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930992029
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 90.0
Formation End Depth: 94.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930992028
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 90.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961501510
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10572123
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930039969
Layer: 1
Material:
Open Hole or Material:

Depth From:	
Depth To:	
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991501510
Pump Set At:	
Static Level:	
Final Level After Pumping:	20.0
Recommended Pump Depth:	20.0
Pumping Rate:	6.0
Flowing Rate:	
Recommended Pump Rate:	6.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	Yes

Water Details

Water ID:	933454220
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	94.0
Water Found Depth UOM:	ft

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7 | ***1 of 1*** | ***SSE/224.3*** | ***89.7 / 2.28*** | ***lot 1 con 4 ON*** | ***WWIS***

Well ID:	1501509	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/30/1965
Sec. Water Use:	0	**Selected Flag:**	TRUE
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	OF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501509.pdf

Additional Detail(s) (Map)

Well Completed Date:	1965/08/10
Year Completed:	1965
Depth (m):	31.0896
Latitude:	45.4383100810731
Longitude:	-75.4947344518827
Path:	150\1501509.pdf

Bore Hole Information

Bore Hole ID:	10023552	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	461305.80
Code OB Desc:		***North83:***	5031762.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	10-Aug-1965 00:00:00	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930992027
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	100.0
Formation End Depth:	102.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992026
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	100.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961501509
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10572122
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930039968
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	102.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991501509
Pump Set At:	
Static Level:	
Final Level After Pumping:	25.0
Recommended Pump Depth:	25.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	Yes

Water Details

Water ID:	933454219
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	102.0
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	SSE/224.6	89.9 / 2.42	***Mattamy (Mer Bleue) Limited*** ***2405 Mer Bleue Rd, Ottawa, City 2496 Tenth Line Rd, Ottawa, City CITY OF OTTAWA*** ***ON***	PTTW

EBR Registry No:	012-4411	***Decision Posted:***	
Ministry Ref No:	6502-9W8LAB	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	October 17, 2016	***Act 2:***	

Proposal Date: June 19, 2015
Year: 2015
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Mattamy (Mer Bleue) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 50 Hines Road, Suite 100, Ottawa Ontario, Canada K2K 2M5
Comment Period:
URL:

Site Location Map:

Site Location Details:

2405 Mer Bleue Rd, Ottawa, City 2496 Tenth Line Rd, Ottawa, City CITY OF OTTAWA

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9 | **1 of 1** | **SSE/235.8** | **89.9 / 2.41** | **2388 Mer Bleue Road Ottawa ON** | **EHS**

Order No: 20100325027
Status: C
Report Type: Standard Report
Report Date: 4/6/2010
Date Received: 3/25/2010
Previous Site Name:
Lot/Building Size: 0.34 acres
Additional Info Ordered: Fire Insur. Maps and/or Site Plans;

Nearest Intersection: Mer Bleue at Renaud
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -75.494576
Y: 45.438228

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10 | **1 of 1** | **NNW/238.4** | **87.9 / 0.43** | **ON** | **BORE**

Borehole ID: 616284
OGF ID: 215517073
Status:
Type: Borehole
Use:
Completion Date: JUL-1962
Static Water Level: 3.0
Primary Water Use:
Sec. Water Use:
Total Depth m: -999
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 86.9
Elev Reliabil Note:
DEM Ground Elev m: 88.4
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.442356
Longitude DD: -75.496112
UTM Zone: 18
Easting: 461201
Northing: 5032212
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID: 218403560
Top Depth: 21.3
Bottom Depth:
Material Color: Blue
Material 1: Gravel

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:

Material 2: ***Geologic Group:***
Material 3: ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: GRAVEL. WATER STABLE AT 275.0 FEET.. CLAY. BLUE. GRAVEL. LIMESTONE. GREY. 00122 18000 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218403559 ***Mat Consistency:***
Top Depth: 0 ***Material Moisture:***
Bottom Depth: 21.3 ***Material Texture:***
Material Color: Blue ***Non Geo Mat Type:***
Material 1: Clay ***Geologic Formation:***
Material 2: ***Geologic Group:***
Material 3: ***Geologic Period:***
Material 4: ***Depositional Gen:***
Gsc Material Description:
Stratum Description: CLAY. BLUE.

Source

Source Type: Data Survey ***Source Appl:*** Spatial/Tabular
Source Orig: Geological Survey of Canada ***Source Iden:*** 1
Source Date: 1956-1972 ***Scale or Res:*** Varies
Confidence: M ***Horizontal:*** NAD27
Observatio: ***Verticalda:*** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 087920 NTS_Sheet: 31G06E
Confiden 1: Reliable information but incomplete.

Source List

Source Identifier: 1 ***Horizontal Datum:*** NAD27
Source Type: Data Survey ***Vertical Datum:*** Mean Average Sea Level
Source Date: 1956-1972 ***Projection Name:*** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
CA	City of Ottawa	Mer Bleue Rd (Innes Rd 700m south)	Ottawa ON	
ECA	Mattamy (Mer Bleue) Limited	Part of	Ottawa ON	K2K 2M5
ECA	Mattamy (Mer Bleue 2) Limited		Ottawa ON	K2K 2M5

Unplottable Report

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #: 2501-6V7Q25
Application Year: 2006
Issue Date: 11/10/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Ottawa***
Mer Bleue Rd (Innes Rd 700m south) Ottawa ON

Database: ***CA***

Certificate #: 8790-6VKTPK
Application Year: 2007
Issue Date: 4/26/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Mer Bleue) Limited***
Part of Ottawa ON K2K 2M5

Database: ***ECA***

Approval No: 2254-A4KT9R
Approval Date: 2015-12-04
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Mattamy (Mer Bleue) Limited
Address: Part of
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0207-A47SUN-14.pdf
PDF Site Location:

Site: ***Mattamy (Mer Bleue 2) Limited***
Ottawa ON K2K 2M5

Database: ***ECA***

Approval No: 1434-BECJNT
Approval Date: 2019-08-01
MOE District:
City:

Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Mattamy (Mer Bleue 2) Limited		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8358-BDRS2P-14.pdf		
PDF Site Location:			

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Dec 31, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Dec 31, 2021

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Dec 31, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Dec 31, 2021

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Nov 30, 2021

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Dec 31, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Dec 31, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Dec 31, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2021

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Dec 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Sep 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Nick Sullivan, B.Sc.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Scientist

EDUCATION

McMaster University, B.Sc. 2016
Earth & Environmental Science

Niagara College, Cert. 2017
Environmental Management & Assessment

EXPERIENCE

2018 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Environmental Scientist

SELECT LIST OF PROJECTS

Phase I & II Environmental Site Assessments
Contaminated Soil and Groundwater Field Sampling
Subsurface Investigations of Soil and Rock Stratigraphy
Supervision of Environmental Remediation Programs
Designated Substance Surveys

Mark S. D'Arcy, P. Eng

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

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

EDUCATION

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

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

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

SELECT LIST OF PROJECTS

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