Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

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Building Science

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Phase I Environmental Site Assessment

1058, 1062 and 1066 Silver Street
Ottawa, Ontario

Prepared For

Haslett Construction

December 3, 2021

Report: PE5083-2R

Paterson Group Inc.

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Haslett Construction to conduct a Phase I Environmental Site Assessment (Phase I-ESA) for the properties at 1058, 1062 and 1066 Silver Street, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

The subject site was first developed circa 1956 with the present-day, single-family dwellings that occupying 1058, 1062 and 1066 Silver Street. No significant exterior renovations are believed to have taken place at the subject site since its original construction. No historical PCAs/APECs were identified on the subject site during the historical review.

The surrounding properties were primarily developed for residential purposes between the 1950s and 1960s. Limited commercial operations were identified in the subject area along Merivale Road, approximately 240 m northwest of the subject land. No potentially contaminating activities (PCAs) that would result in areas of potential environmental concern (APECs) on the Phase I property were identified during this assessment.

Following the historical review, a site visit was conducted. The site is currently occupied by the original single family dwellings from the 1950s. No PCAs were identified with the current use of the subject site. The surrounding lands are occupied by residential dwellings and apartment buildings. No PCAs were identified within the study area.

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

Recommendations

It is our understanding that the subject buildings will be demolished in conjunction with future redevelopment. Prior to any demolition activities, a designated substance survey (DSS) must be conducted for the existing structure, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

1.0 INTRODUCTION

At the request of Haslett Construction, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I ESA) for 1058, 1062 and 1066 Silver Street, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA by Mr. Robert Haslett of Haslett Construction. The head office of Haslett Construction is located at 414 Churchill Avenue, Ottawa, Ontario.

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

2.0 PHASE I PROPERTY INFORMATION

Address:	1058, 1062 and 1066 Silver Street, Ottawa, Ontario.
Location:	The subject site is located on the northwest corner of the Summerville Avenue and Silver Street intersection, in Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following the body of this report.
Latitude and Longitude:	45° 22' 36.65" N, 75° 43' 45.65" W;

Site Description:

Configuration:	Rectangular.
Site Area:	1,600 m^2 (approximate).
Zoning:	R4N – Residential Fourth Density Zone.
Current Use:	The subject site is currently occupied by three (3) single-family dwellings.
Services:	The subject site is located in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

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

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

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

Based on a historical review, the Phase I Property appears to have been first developed prior to 1958 with the present residential dwellings.

Fire Insurance Plans

Fire Insurance Plans (FIPs) were not available for the subject site or the city blocks within the area bound by Emperor Avenue (north) and Prince Street (west), Silver Street (east) and the Natural Resources Canada's Central Experimental Farm (south). However, the FIP from 1956 does cover the remainder of the subject area.

The 1956 FIPs depict the western, eastern and northern areas as being occupied by single family residential dwellings and residential apartment buildings. No potentially contaminating activities (PCAs) were identified in these areas in the FIPs.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1924 to 2011. The directories indicated that the subject area was first developed as a residential area between 1950 and 1960. The subject site was likely developed around 1958 as single family dwellings. The remaining study area was listed under private individuals. No PCAs were identified in the Phase I Study Area.

4.2 Environmental Source Information

Environment and Climate Change Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on November 30, 2021. The Phase I Property and properties within the Phase I Study Area were not listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified on the Phase I Property or on properties within the 250m search radius.

Ontario Ministry of the Environment, Conservation and Parks (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. According to the MECP response, no records were located. A copy of the response is appended to this report.

MECP Coal Gasification Plant Inventory

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

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 site or adjacent properties. According to the MECP response, no records were located. A copy of the response is appended to 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. According to the MECP response, no records were located. A copy of the response is appended to 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 have been submitted to the MECP. According to the MECP response, no records were located. A copy of the response is appended to this report.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Record of Site Condition (RSC) was found for the subject site or neighbouring properties.

MECP Waste Disposal Site Inventory

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

Areas of Natural and Scientific Interest (ANSI)

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on November 30, 2021. The search did not reveal any natural features or areas of natural significance within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted on December 1, 2021, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records were found for the subject site or neighbouring properties.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No former waste disposal sites were located within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory

A search of the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was conducted as part of the Phase I ESA. Based on the HLUI response, there are no activities associated with the Phase I Property.

Seven (7) activities were identified on properties within 250 m of the Phase I Property. Based on the HLUI search results, there are no PCAs identified within the immediate area of the subject land and as such, there are no APECs. The HLUI search results are included in the Appendix 2.

Environmental Risk Inventory Source (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within the Phase I Study Area.

Based on the ERIS search results, there are no records pertaining to the Phase I Property. Five (5) Ontario Spill Records were identified within the Phase I Study Area, which were related to furnace oil or gasoline releases 100 meters or more away from the subject land. Based on the separation distances, these reported spills are not considered to pose a risk to the Phase I Property. No other relevant information regarding this assessment was identified in the ERIS report. A copy of the report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

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

1928 The subject site is vacant at this time and lies within a presumably agricultural area with occasional farm buildings shown.

1958 The subject site appears to be occupied by the present-day residential dwellings and private garage. The neighbouring lands appear to be occupied by residential dwellings, while land to the west is undeveloped at this time.

1965 No significant changes have been made to the subject site or surrounding properties, with the exception that lands further west have been developed.

1976	The subject site and neighbouring lands remain unchanged from the previous photograph.
2002	The subject site and neighbouring lands remain unchanged from the previous photograph.
2017	No significant changes have been made to the subject site or neighbouring properties

No PCAs were identified during the aerial photo review. Copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada - The Atlas of Canada website. The topographic maps indicate that the subject site and surrounding area is generally flat and level sloping slightly to the north and northeast. An illustration of the referenced topographic map is presented on Figure 2 - Topographic Map following the body of this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada - The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The subject site is located in the Central St. Lawrence Lowland, “where the land is rarely more than 150 m above sea level, except for the Monteregian Hills, which consist of intrusive igneous rocks”.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock in the area of the site consists of limestone of the Ottawa Formation. Based on the maps and local borehole records, the overburden consists of glacial till where present and may be around 4m thick.

Water Well Records

A well record search was conducted and reviewed on December 3, 2021 for all drilled wells within 250 m of the subject site. The search returned three (3) well records, all of which were domestic wells drilled in 1949, 1952 and 1953, more

than 100 m away from the subject land. These wells were drilled to fresh water at depths ranging from approximately 26 to 37 m below the ground surface (mbgs). Although there were no well abandonment records, it is expected that these wells are no longer in-use since the area is situated in a municipally serviced area.

Based on well records, the stratigraphy in the area consists of clay and till, underlain by limestone bedrock, which was encountered at depths ranging from approximately 2.4 to 4 mbgs. No other information was provided in the well records. A copy of the well records has been included in Appendix 2.

Water Bodies and Areas of Natural Significance

There are no waterbodies or areas of natural significance on the Phase I Property or within the Phase I Study Area.

5.0 INTERVIEWS

As part of this assessment, Mr. Joseph Pamic, the current landowner of the Phase I Property was interviewed during a site visit conducted at 1058, 1062 and 1066 Silver Street. The Phase I Property is occupied by three (3) storey residential dwellings that were constructed in the mid-1950s. The Phase I Property has always been used for residential purposes. Any pertinent information obtained during the interview has been included in the relevant sections of this report. Mr. Pamic was not aware of any environmental concerns with the subject site.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site assessment was conducted on November 30, 2021. Weather conditions were sunny, with a temperature of approximately -1 °C. Ms. Mandy Witteman from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site reconnaissance.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

The subject site is occupied by two, 2-storey residential dwellings and a bungalow that were constructed circa 1956 with concrete block foundations and are heated by natural gas. The exteriors of the dwellings are finished in stucco with sloped shingle-style roof. Two (2) private garages associated with 1058 and 1066 Silver Street are situated on the south and north sides of the lot, respectively, while a temporary structure/garage is present at 1062 Silver Street. No other structures are present on the subject site.

Site Features

The subject buildings are centrally situated with laneways fronting the west side of Silver Street. The majority of the site is landscaped with the exception of the driveways. The site topography is relatively flat, however, above the grade of Silver Street. Site drainage on the landscaped areas occurs through surficial infiltration, while sheet flow occurs on the paved areas, with overflow draining into catch basins located along Silver Street. The regional topography in the area slopes down in a north-easterly direction.

No evidence of a former UST or AST was noted at the time of the site visit. No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit.

No areas of ponded water, stained pavement, stressed vegetation or unidentified substances were observed on-site at the time of the site visit.

Subsurface Structures and Utilities

The Phase I Property is situated in a municipally serviced area. Underground utility services on the property include natural gas, water and sewer services. Water and sewer services enter the Phase I Property from Silver Street.

Potential Environmental Concerns

- **Waste Management**

  Residential waste is stored on the south sides of the residences and collected by the municipality.

❑ **Polychlorinated Biphenyls (PCBs)**

No transformers were observed on the Phase I Property.

❑ **Wastewater Discharge**

Wastewater is discharged to the municipal sewer system.

❑ **Railway Lines**

No railway lines were observed on the subject site or within the Phase I Study Area.

❑ **Unidentified Substances**

There were no unidentified substances on the exterior of the subject property at the time of this assessment.

Interior Assessment

A general assessment of the building interiors is as follows:

❑ The floors consisted of hardwood, ceramic tiling, and laminate flooring and concrete in the basement.

❑ The walls and ceilings consisted of hard plaster and drywall.

❑ Lighting throughout the building was a mixture of fluorescent and incandescent fixtures.

Potentially Hazardous Building Products

❑ **Ozone Depleting Substances (ODSs)**

Refrigerators and fire extinguishers may be potential sources of ozone depleting substances (ODSs) on site. These appliances should be regularly serviced and maintained by certified contractors.

❑ **Potentially Hazardous Building Materials**

Based on the age of the buildings, there is the potential for Asbestos Containing Materials (ACMs) to have been used in the construction. These materials include hard plaster and drywall joint compound which all appeared to be in good condition. Lead-based paints may also be present on-site.

Other Potential Environmental Concerns

- **Storage Tanks**

  No signs (i.e., staining or olfactory evidence) of aboveground or underground fuel storage tanks were noted at the time of the site visit.

- **Wastewater Drainage**

  There were no sump pits present within the dwellings, only floor drains in the basement. All floor drains were clean of any debris and dry. Wastewater discharge from the buildings is expected to drain into the City of Ottawa sewer system.

Neighbouring Properties

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

- North - Residential land.
- South - Summerville Avenue followed by Residential land.
- West - Residential land.
- East - Silver Street, followed by residential land.

Land use within the Phase I ESA Study Area is shown on Drawing PE5083-2R - Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site dating back to the first developed use of the site.

Table 1: Land Use History

Time Period	Land Use	Potentially Contaminating Activities	Areas of Potential Environmental Concern
Prior to 1958	Vacant (agricultural)	None	None
1958 – present	Single family residential dwellings	None	None

Potentially Contaminating Activities (PCAs)

No potentially contaminating activities were identified on the Phase I Property or on properties within the Phase I Study Area.

Areas of Potential Environmental Concern (APEC)

No PCAs have been identified that represent APECs on the Phase I Property.

Contaminants of Potential Concern (CPC)

As no APECs have been identified for the subject site, no Contaminants of Potential Concern (CPCs) have been identified.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from NRCAN, bedrock in the area of the site consists of limestone of the Ottawa Formation. Based on the maps, the thickness of overburden ranges from 0 to 5 m in the area around the site and consists of glacial till. Groundwater is anticipated to flow in a north-easterly direction.

Contaminants of Potential Concern

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

Existing Buildings and Structures

The subject site is occupied by two, 2-storey residential dwellings and a bungalow constructed around 1956 with block concrete foundations that are heated with natural gas fired furnaces. The exterior of the dwellings are finished in stucco with sloped shingle style roofs.

Water Bodies and Areas of Natural Scientific Interest

There are no waterbodies or areas of natural and scientific interest on the Phase I Property or within the Phase I ESA Study Area.

Drinking Water Wells

No potable water wells were identified on the Phase I Property.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of residential properties. Land use is shown on Drawing PE5083-2R – Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there are no PCAs identified within the study area and as such, there are no areas of potential environmental concern (APECs).

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 potentially contaminating activities on the subject site or in the study area which have the potential to have impacted the subject site. The presence or lack of potentially contaminating activities was confirmed by a variety of independent sources, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Haslett Construction to conduct a Phase I Environmental Site Assessment (Phase I-ESA) of 1058, 1062 and 1066 Silver Street, in the City of Ottawa, Ontario. The purpose of this Phase I – Environmental Site Assessment was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject properties.

The subject site was first developed circa 1956 with the present-day, single family dwellings that occupy 1058, 1062 and 1066 Silver Street. No significant exterior renovations are believed to have taken place at the subject site since their original construction. No historical PCAs/APECs were identified on the subject site during the historical review.

The surrounding properties were primarily developed for residential purposes between the 1950s and 1960s. Limited commercial operations were identified in the subject area along Merivale Road, approximately 240 m northwest of the subject land. No potentially contaminating activities (PCAs) that would result in areas of potential environmental concern (APECs) on the Phase I property were identified during this assessment.

Following the historical review, a site visit was conducted. The site is currently occupied by the original single family dwellings from the 1950s. No PCAs were identified with the current use of the subject site. The surrounding lands are occupied by residential dwellings and apartment buildings. No PCAs were identified within the study area.

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

Recommendations

It is our understanding that the subject buildings will be demolished in conjunction with future redevelopment. Prior to any demolition activities, a designated substance survey (DSS) must be conducted for the existing structures, in accordance with Ontario Regulation 490/09 under the Occupational Health and Safety Act.

9.0 STATEMENT OF LIMITATIONS

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

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

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

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.

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

Report Distribution:

- Haslett Construction
- Paterson Group

10.0 REFERENCES

Federal Records
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

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

Municipal Records
The City of Ottawa Historical Land Use Inventory.
The City of Ottawa geoOttawa website.

Local Information Sources
Personal Interviews.

Public Information Sources
Google Earth.
Google Maps/Street View.

Private Information Sources
Eris Search

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5083-1R – SITE PLAN

DRAWING PE5083-2R – SURROUNDING LAND USE PLAN

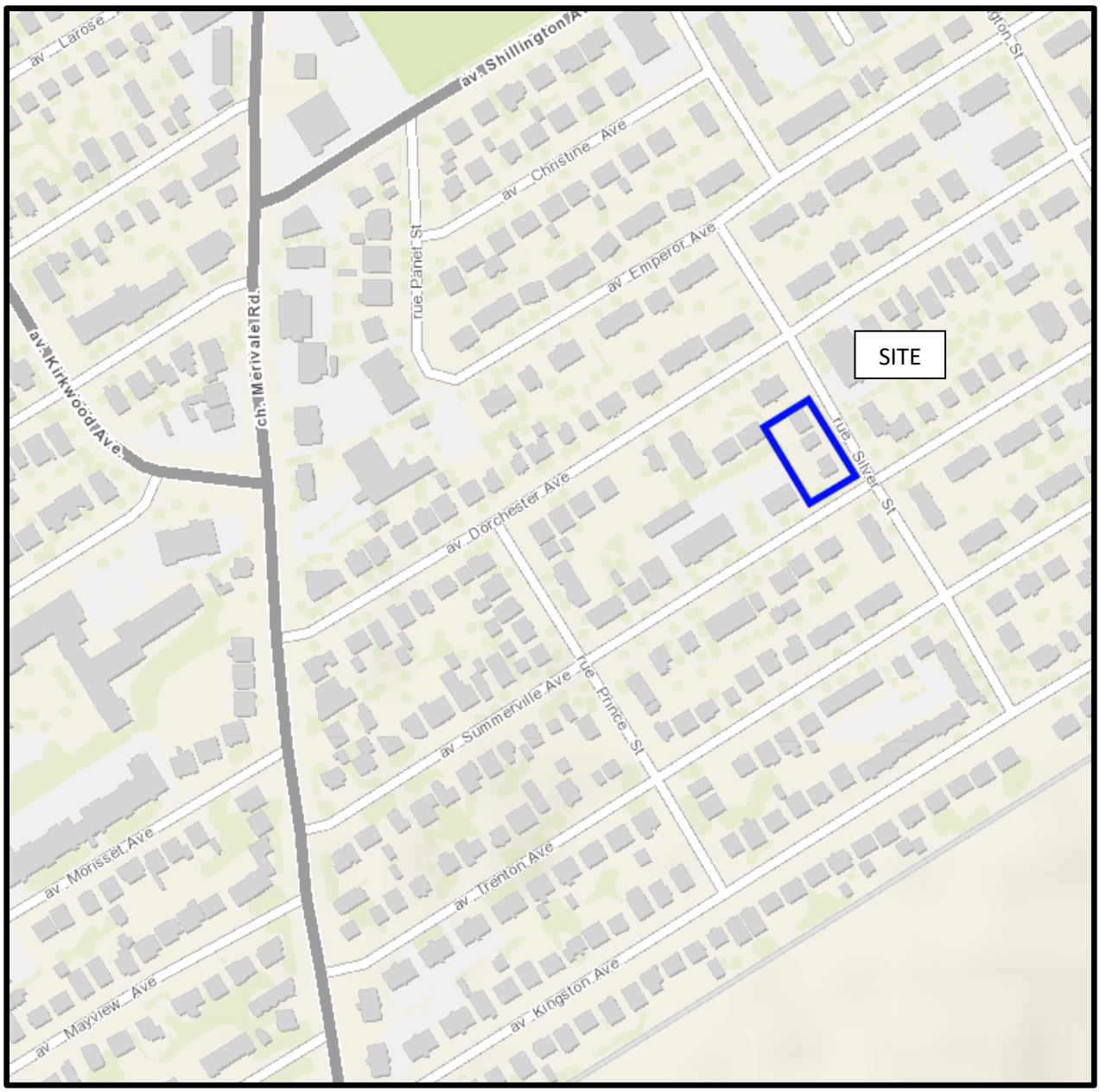

FIGURE 1

KEY PLAN

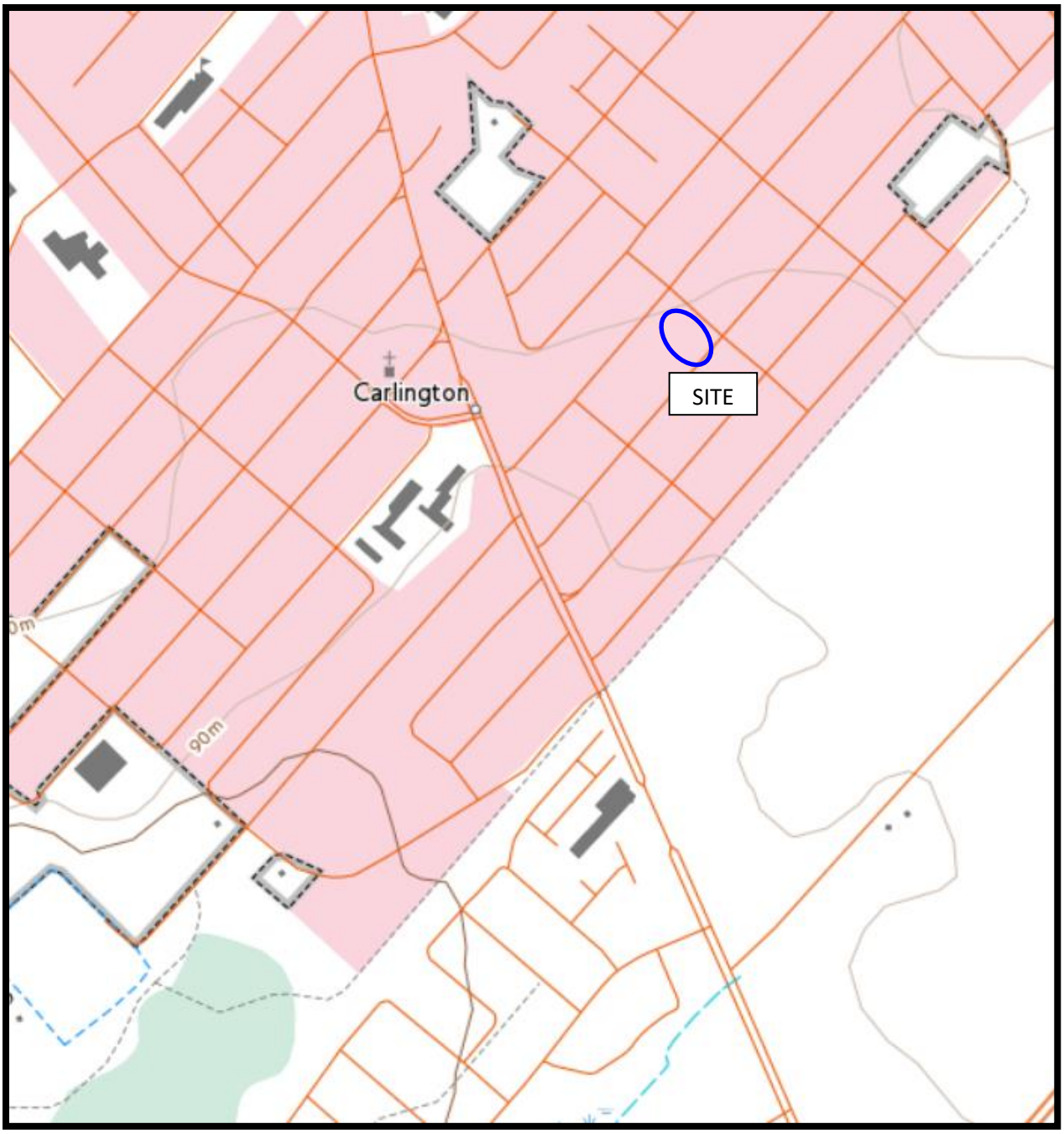

FIGURE 2

TOPOGRAPHIC MAP

1276 DORCHESTER AVENUE
RESIDENTIAL APARTMENT BUILDING

RESIDENTIAL

1061 - 1065 SILVER STREET
RESIDENTIAL TOWNHOUSE BLOCKS

1073 SILVER STREET
RESIDENTIAL TOWNHOUSE BLOCKS

SILVER STREET

TREE
TREE
TREE
TREE

ASPHALTIC CONCRETE DRIVEWAY
ASPHALTIC CONCRETE DRIVEWAY
ASPHALTIC CONCRETE DRIVEWAY

1058 SILVER STREET
RESIDENTIAL DWELLING

1066 SILVER STREET
RESIDENTIAL DWELLING

1062 SILVER STREET
RESIDENTIAL DWELLING

GRASSED AREA

FENCE LINE
FENCE LINE

GRASSED AREA
GRASSED AREA
GRASSED AREA

SHED
SHED
SHED

SHRUBS

TREED AREA
TREED AREA

1280 DORCHESTER AVENUE
RESIDENTIAL APARTMENT BUILDING

1296 DORCHESTER AVENUE
RESIDENTIAL DWELLING

1291 SUMMERVILLE AVENUE
RESIDENTIAL APARTMENT BUILDING

SUMMERVILLE AVENUE

1074 SILVER STREET
RESIDENTIAL TOWNHOUSE BLOCKS

SCALE: 1:300

0 1 2 3 4 5 10 15 20m

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NO.	REVISIONS	DATE	INITIAL

HASLETT CONSTRUCTION

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1058, 1062 & 1066 SILVER STREET
OTTAWA, ONTARIO

Title:

SITE PLAN

Scale: 1:300	Date: 11/2021
Drawn by: JM	Report No.: PE5083-2
Checked by: MW	Dwg No.: **PE5083-1R**
Approved by: MSD	Revision No.:

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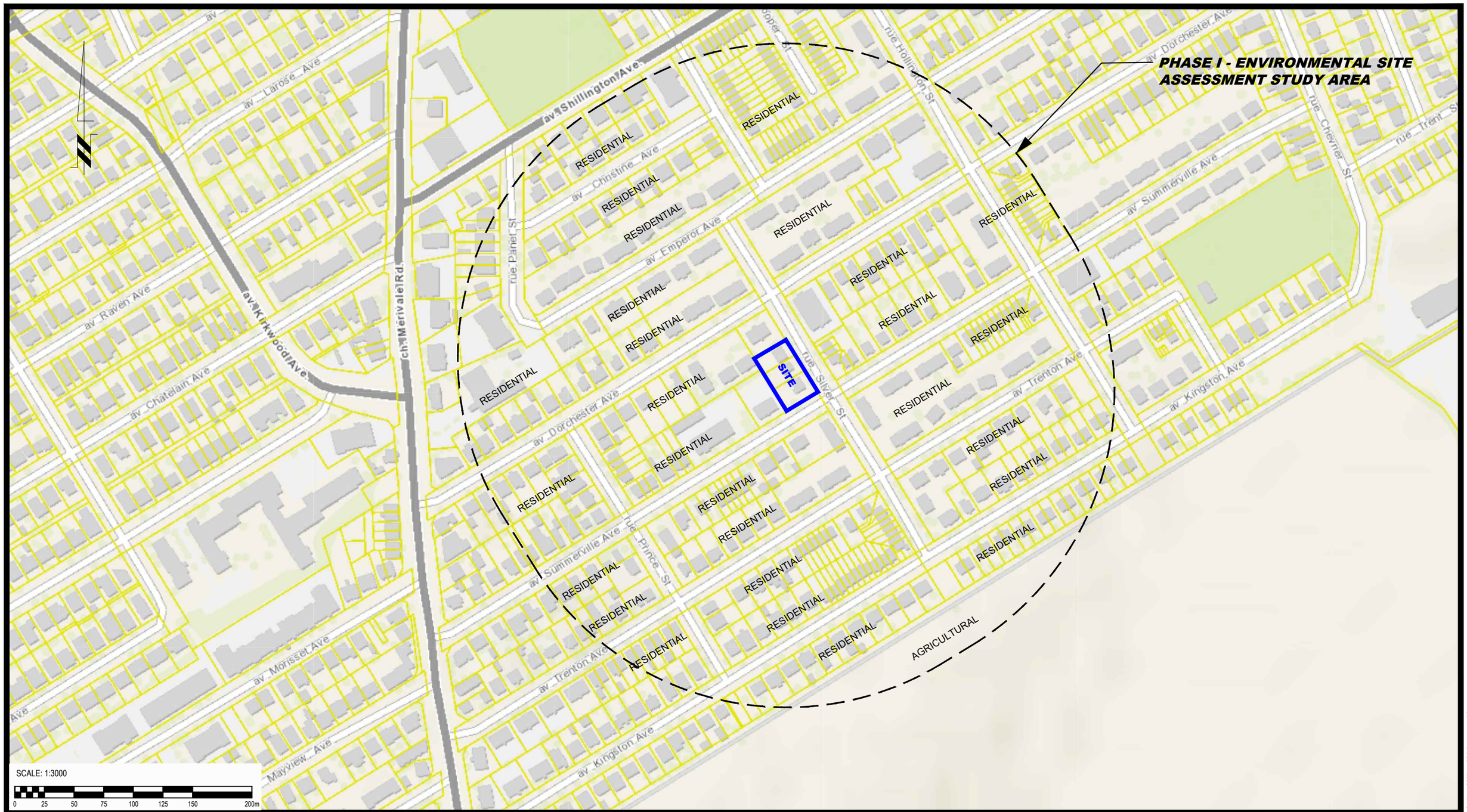

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NO.	REVISIONS	DATE	INITIAL

HASLETT CONSTRUCTION

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
1058, 1062 & 1066 SILVER STREET

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:3000	Date: 11/2021
Drawn by: JM	Report No.: PE5083-2
Checked by: MW	Dwg. No.: PE5083-2R
Approved by: MSD	Revision No.:

11x17

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APPENDIX 1

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS

AERIAL PHOTOGRAPH
1928

AERIAL PHOTOGRAPH
1958

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AERIAL PHOTOGRAPH
1965

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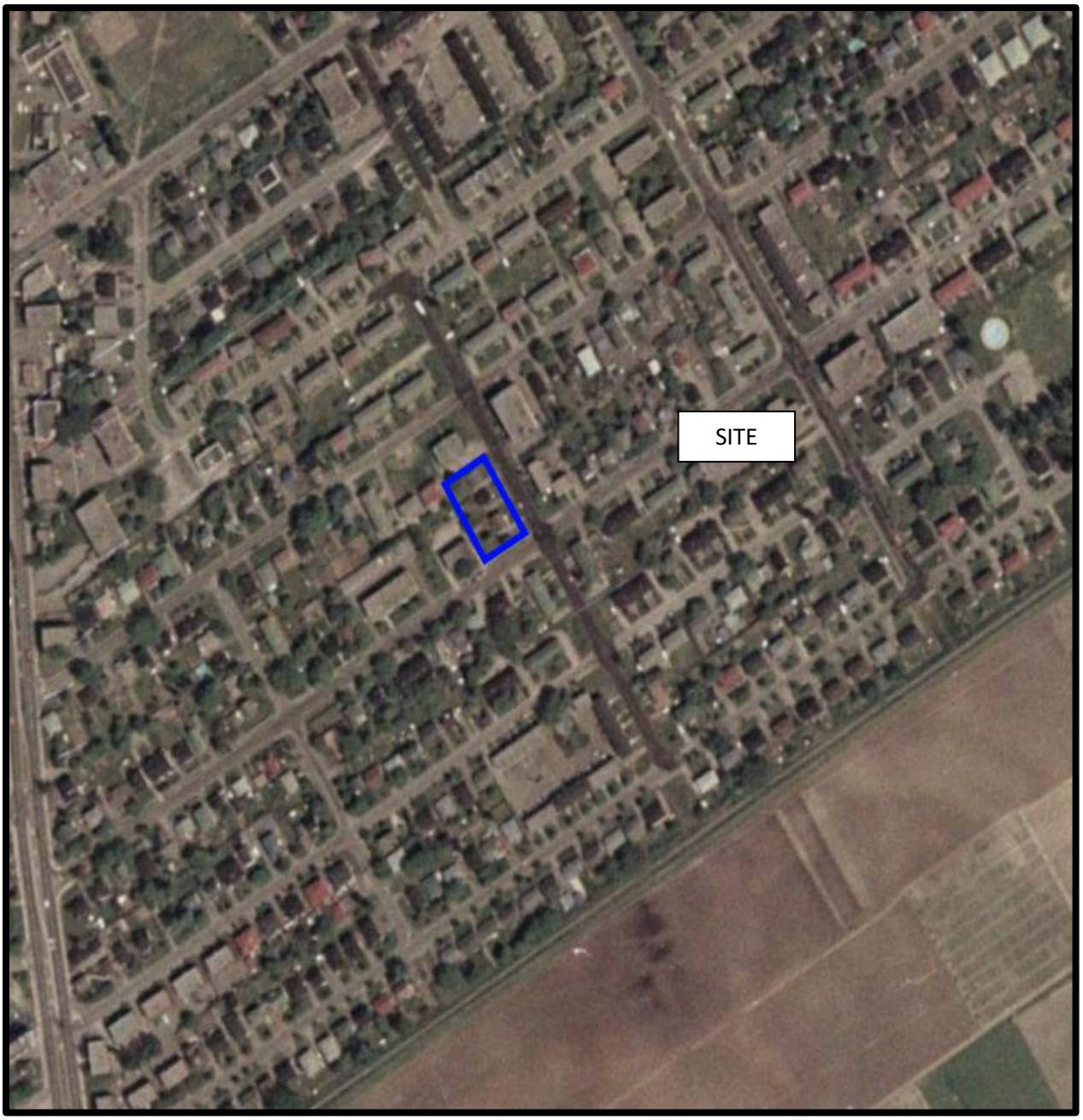

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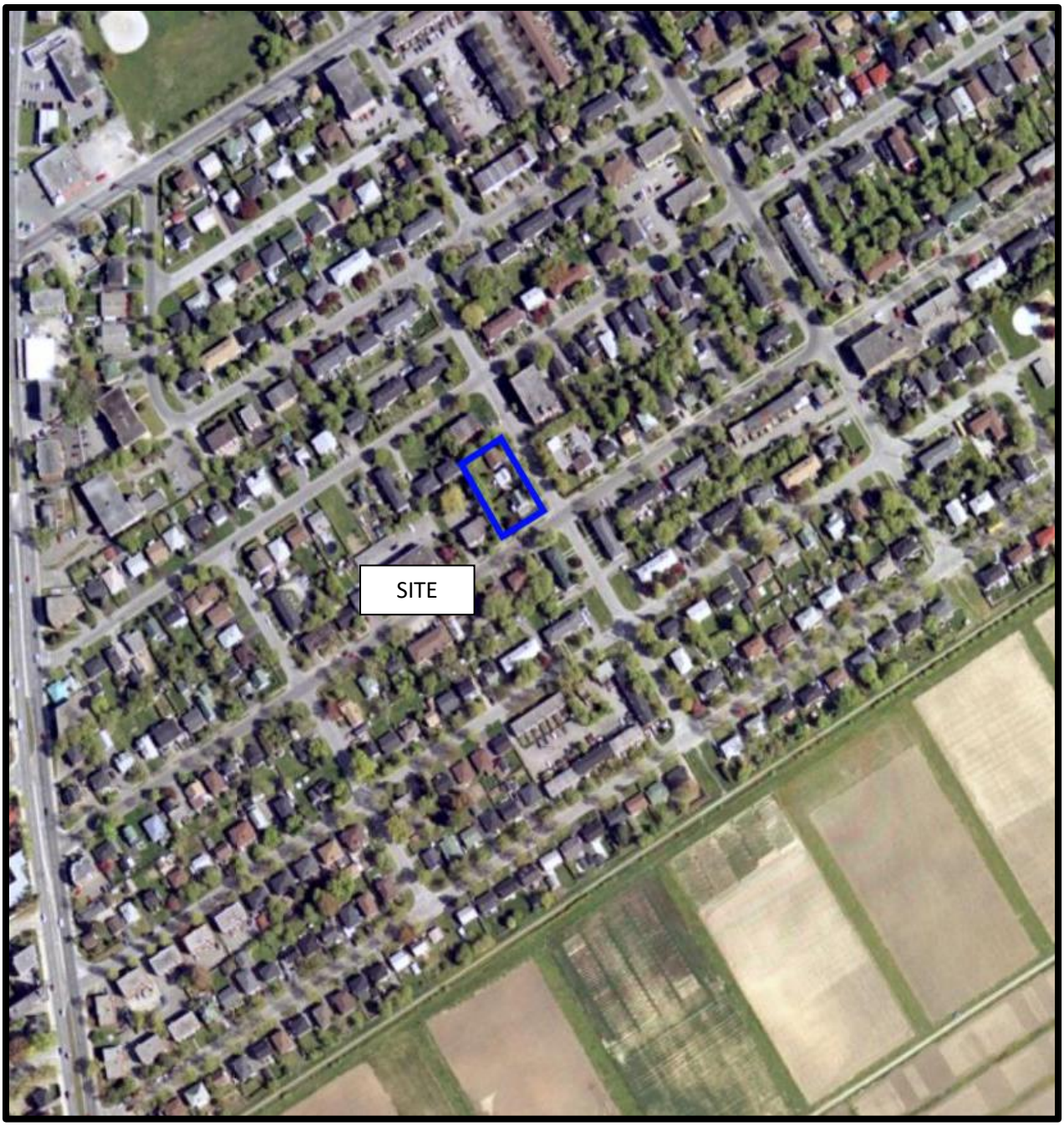
1976



AERIAL PHOTOGRAPH
2002

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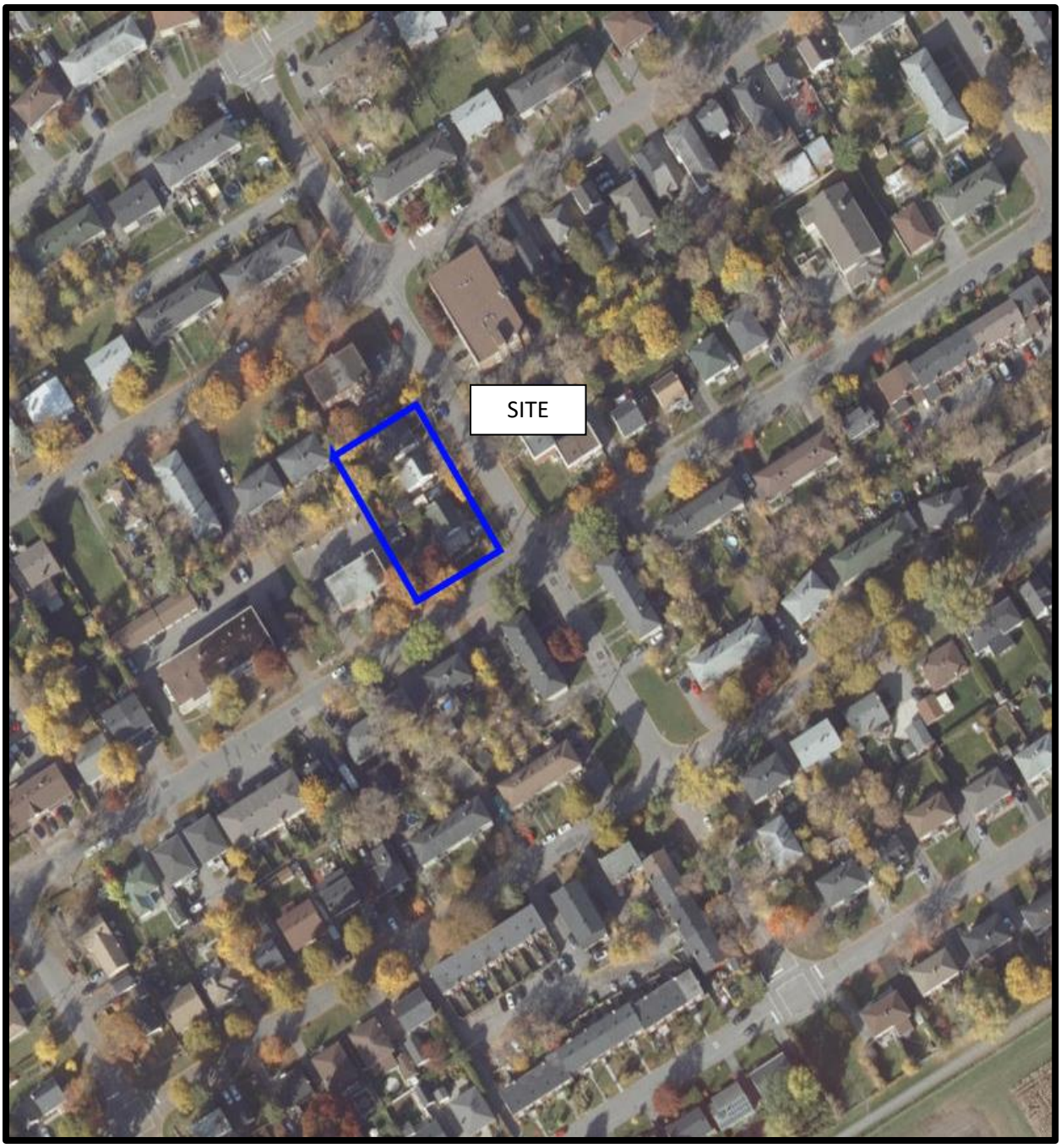

AERIAL PHOTOGRAPH
2017

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Site Photographs

PE5083 1062 and 1066 Silver Street, Ottawa ON January 25, 2021

Photograph 1: View of the northern half of the phase I Property, addressed 1062 Silver Street.

Photograph 2: View of the southern half of the phase I Property, addressed 1066 Silver Street.

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH

WATER WELL RECORDS

TSSA CORRESPONDENCE

CITY OF OTTAWA HLUI SEARCH

ERIS REPORT

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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

Ontario

October 29, 2021

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5

Dear Mandy Witteman:

RE: ***Freedom of Information and Protection of Privacy Act*** **Request**
Our File # A-2021-00857, Your Reference PE5083-2

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 1062 and 1066 Silver Street, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is $30.00 for 1 hour of search time @ $30.00 per hour. **We have applied the $30.00 for this request from your initial payment. This file is now closed.**

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

If you have any questions regarding this matter, please contact Hira Ashraf at (647) 642-9681 or hira.ashraf@ontario.ca.

Yours truly,

Noel Kent
Manager, Access and Privacy

UTM 1 18 Z 4 4 2 7 4 0 E
9 R 5 0 2 4 7 3 0 N
Elev. 9 R 0 3 0 0
Basin 2 5

ONTARIO

The Well Drillers Act
Department of Mines, Province of Ontario

Water Well Record

[redacted] Carleton Township, ~~Village, Town or~~ City ~~Nepean~~ Ottawa
[redacted] own or City)
[redacted] Merivale Road
Date Completed 30 September 1952 (day) (month) (year) Cost of Well (excluding pump)

Pipe and Casing Record		Pumping Test	
Casing diameter(s)	4"	Date	30 sept
Length(s) of casing(s)	20'	Static level	12 feet
Type of screen		Pumping level	30 feet
Length of screen		Pumping rate	20 gals
Distance from top of screen to ground level		Duration of test	1/2 hr
Is well a gravel-wall type?		Distance from cylinder or bowls to ground level	

Water Record

Kind (fresh or mineral) Fresh
Quality (hard, soft, contains iron, sulphur, etc.) hard
Appearance (clear, cloudy, coloured) Clear
For what purpose(s) is the water to be used? domestic
How far is well from possible source of contamination? 50'
What is the source of contamination? septic tank
Enclose a copy of any mineral analysis that has been made of water

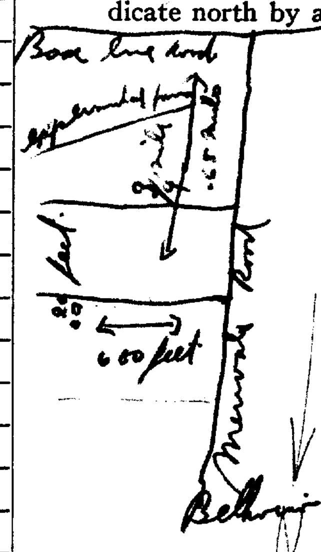
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
60'	fresh	48 feet
80 feet		
118 feet		

Well Log

Overburden and Bedrock Record	From	To
	0 ft.	....ft.
1 to 8 feet Black Clay	1	8
8 - 121 White Limestone	8	121

Location of Well

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



Situation: Is well on upland, in valley, or on hillside? level
Drilling Firm Gordon S. Mulligan
Address 488 MacLaren
Name of Driller Maise Renaud Address 427 Clarence St.
Date Oct 3 Licence Number

Signature of Licensee
Per Maise Renaud

FORM 5

Merivale Rd.

UTM 1 8 Z 4 4 3 0 6 5 E
9 R 5 0 2 4 9 3 0 N
Elev. 9 R 0 1 6 5
Basin 2 5

RECEIVED 15
JUN 12 1953
GEOLOGICAL BRANCH
DEPARTMENT of MINES

No 8931

ONTARIO

The Well Drillers Act
Department of Mines, Province of Ontario

Water Well Record

Carleton

[redacted] ~~Village, Town or~~ City...Ottawa...
[redacted] own or City)...
[redacted] ...11.3.1. Trenton...

Date Completed...23 (day)... May (month)... 1953 (year) Cost of Well (excluding pump)...

Pipe and Casing Record		Pumping Test	
Casing diameter(s)	4"	Date	May 22 1953
Length(s) of casing(s)	29'	Static level	6'
Type of screen		Pumping level	6'
Length of screen		Pumping rate	
Distance from top of screen to ground level		Duration of test	
Is well a gravel-wall type?		Distance from cylinder or bowls to ground level	

Water Record

Kind (fresh or mineral)...Fresh
Quality (hard, soft, contains iron, sulphur, etc.)...Hard
Appearance (clear, cloudy, coloured)...Clear
For what purpose(s) is the water to be used?...domestic
How far is well from possible source of contamination?...40 ft
What is the source of contamination?...Septic tank
Enclose a copy of any mineral analysis that has been made of water...

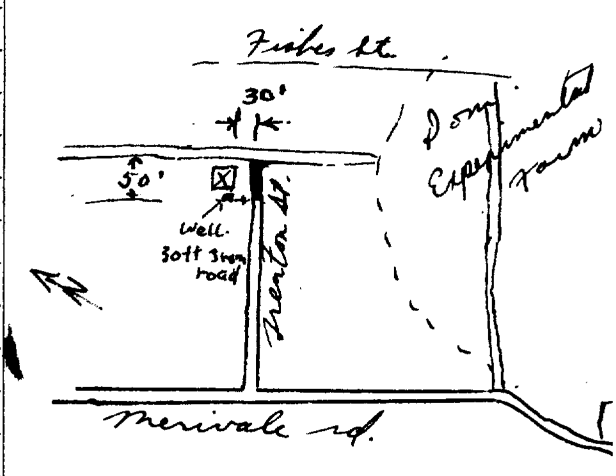
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
40 ft	Hard.	34 ft.

Well Log

Overburden and Bedrock Record	From	To
	0 ft.	....ft.
Soft Limestone	0	50
Sandstone (black, hard)	50	64

Location of Well

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



Situation: Is well on upland, in valley, or on hillside?...Upland
Drilling Firm...S. H. Mulligan
Address...Britannia Bay R.R.#1 Ont
Name of Driller...C.C. Petry... Address...Britannia Bay R.R.#1 Ont.
Date...June 10 1953... Licence Number...447
...C.C. Petry
Signature of Licensee

FORM 5

Trenton Ave

18 442620
9 5024880
19 0315
25

53 31G/5b

10611

ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record OTTAWA

[redacted] ~~N~~ ~~II OF.~~ Con. Lot 33 Pt. Lot

[redacted] RCHESTER AVE. Acres

[redacted] cluding pump)

Pipe and Casing Record		Pumping Test	
Casing diameter(s)		Date	SEPT. 3 1949
Length(s) of casing(s)		Developed Capacity	350 G. P. H.
Length of screen		Duration of Test	60 MIN
Type of screen		Pumping Rate	500 G. P. H.
Type of pump		Drawdown	21'
Capacity of pump		Static level of completed well	21'
Depth of pump setting		Is well a gravel-wall type?	No.

Water Record

Kind (fresh or mineral) FRESH

Quality (hard, soft, contains iron, sulphur etc.) MEDIUM HARD

Appearance (clear, cloudy, coloured) CLOUDY

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

How far is well from possible source of contamination? 50'

What is source of contamination? SEPTIC TANK

Enclose a copy of any mineral analysis that has been made of water

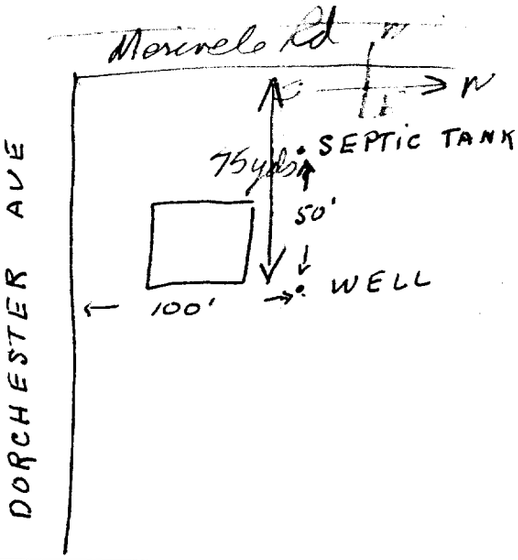
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
56'	FRESH	12'
85'	"	64'

Well Log

Drift and Bedrock Record	From	To
TILL	0 ft.	13 ft.
LIMESTONE	13	85

Location of Well

In diagram below show distances of well from road and lot line



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

Drilling Firm F. A. McLEAN & SON

Address 185 JAMES ST. OTTAWA

Recorded by W. MOLOUGHNEY Address 483 PRESTON ST. OTTAWA

Date SEPT. 3 1949 Licence Number

C8558

Mandy Witteman

From: Public Information Services <publicinformationservices@tssa.org>
Sent: December 1, 2021 10:30 AM
To: Mandy Witteman
Subject: RE: Search records request (PE5083-2)

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 Mandy,

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,

Mariah

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: Mandy Witteman
<MWitteman@patersongroup.ca>
Sent: December 1, 2021 8:35 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search records request (PE5083-2)

Good morning

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

Summerville Ave: 1291, 1294, 1298, 1305

Silver St: 1074, 1073, 1062, 1066, 1058

Tenton Ave: 1281
Thank you

Cheers,

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

solution oriented engineering
over 60 years servicing our clients

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 339
Cell: (403) 921-1157

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*PE5083 -1291 Summerville Avenue* *1291 Summerville Avenue* *Ottawa ON K1Z 8G7*
Project No:	*31449*
Report Type:	*Standard Report*
Order No:	*20302600051*
Requested by:	*Paterson Group Inc.*
Date Completed:	*October 29, 2020*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*PE5083 -1291 Summerville Avenue* *1291 Summerville Avenue Ottawa ON K1Z 8G7*
Project No:	*31449*

Coordinates:

Latitude:	*45.3771292*
Longitude:	*-75.7293806*
UTM Northing:	*5,025,104.79*
UTM Easting:	*442,892.03*
UTM Zone:	*18T*

Elevation: *262 FT*
79.73 M

Order Information:

Order No:	*20302600051*
Date Requested:	*October 26, 2020*
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	3	3
CA	*Certificates of Approval*	Y	0	0	0
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	4	4
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

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
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	0	0
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	5	5
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	3	3
	Total:	0	15	15	

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	ENE/73.9	0.17	14
2	EHS		1276 Dorchester Ottawa ON K1Z 8E6	NE/91.0	-0.82	15
2	EHS		1276 Dorchester Ottawa ON K1Z 8E6	NE/91.0	-0.82	15
2	EHS		1276 Dorchester Ottawa ON K1Z 8E6	NE/91.0	-0.82	15
3	SPL	PRIVATE RESIDENCE	1313 TRENTON AVE FURNACE OIL TANK OTTAWA CITY ON K1Z 8K2	SSW/112.9	2.86	15
4	SPL	PRIVATE OWNER	1256 SUMMERVILLE MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1Z 8G5	ENE/133.8	-0.16	16
5	BORE		ON	W/151.5	0.76	16
6	WWIS		ON ***Well ID:*** 1508490	SW/195.1	6.14	17
7	EHS		1239-1243 Summerville Ave Ottawa ON	ENE/199.3	-1.88	20
8	SPL	PRIVATE RESIDENCE	1343 SUMMERVILLE FURNACE OIL TANK OTTAWA CITY ON K1Z 8G9	WSW/206.5	6.51	20
9	WWIS		ON ***Well ID:*** 1508931	E/209.1	-0.85	21
10	SPL	IMPERIAL OIL LTD.	ESSO S.S. AT 1347 TRENTON AVE. ESSO SERVICE STATION OTTAWA CITY ON K1Z 8K3	SW/224.8	7.84	23

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	WWIS		lot 33 con 2 ON ***Well ID:*** 1510611	W/241.3	1.95	23
12	BORE		ON	S/242.7	7.56	26
13	SPL	PRIVATE OWNER	1005 SILVER AVE. STORAGE TANK/BARREL OTTAWA CITY ON K1Z 6H8	N/248.3	-2.85	27

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	ENE	73.90	1
	ON	W	151.50	5
	ON	S	242.66	12

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 4 EHS site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	1276 Dorchester Ottawa ON K1Z 8E6	NE	90.98	2
	1276 Dorchester Ottawa ON K1Z 8E6	NE	90.98	2
	1276 Dorchester Ottawa ON K1Z 8E6	NE	90.98	2
	1239-1243 Summerville Ave Ottawa ON	ENE	199.29	7

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 5 SPL site(s) within approximately 0.25 kilometers of the

project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
PRIVATE RESIDENCE	1313 TRENTON AVE FURNACE OIL TANK OTTAWA CITY ON K1Z 8K2	SSW	112.93	3
PRIVATE RESIDENCE	1343 SUMMERVILLE FURNACE OIL TANK OTTAWA CITY ON K1Z 8G9	WSW	206.53	8
IMPERIAL OIL LTD.	ESSO S.S. AT 1347 TRENTON AVE. ESSO SERVICE STATION OTTAWA CITY ON K1Z 8K3	SW	224.76	10

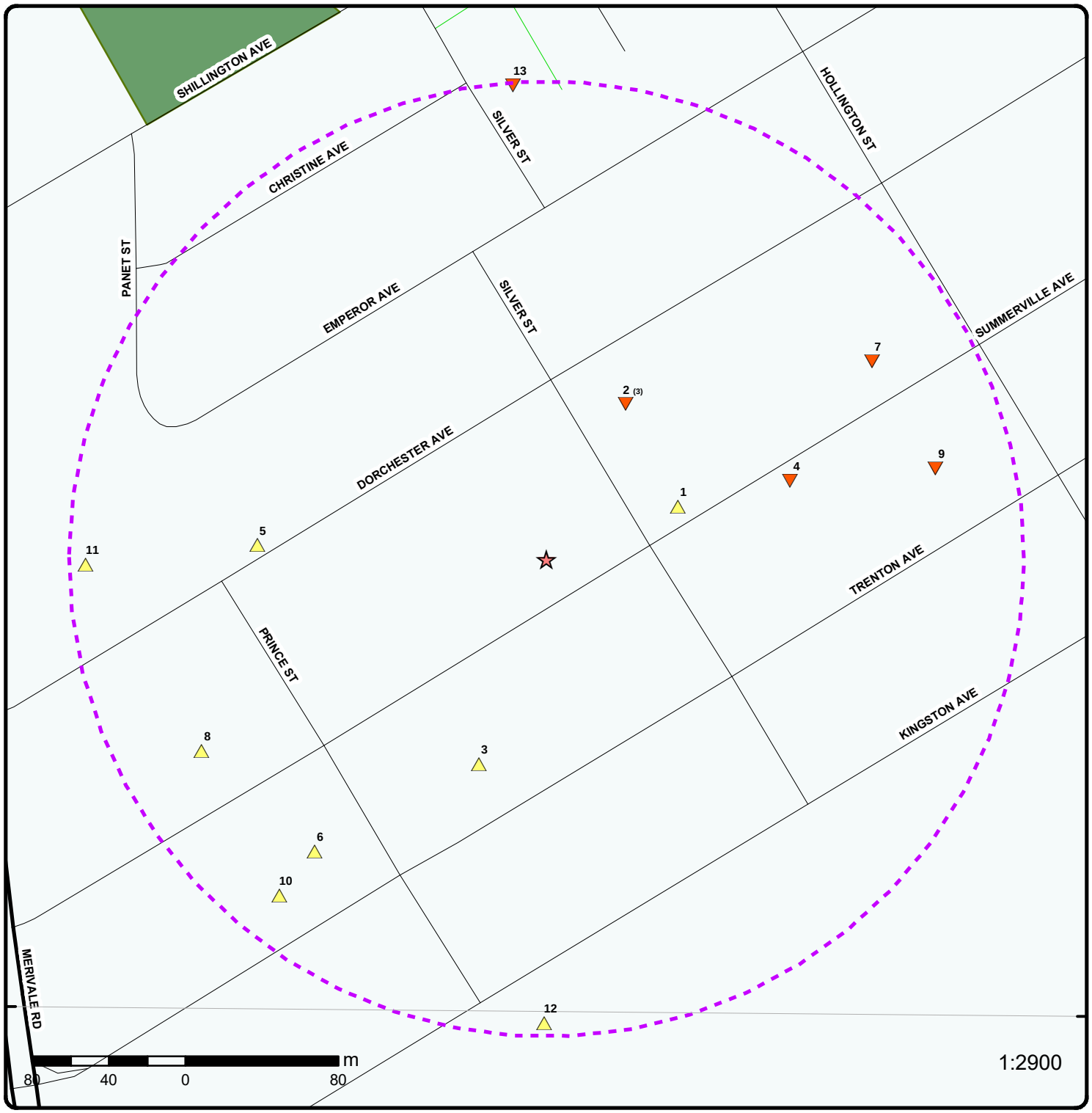
Lower Elevation	Address	Direction	Distance (m)	Map Key
PRIVATE OWNER	1256 SUMMERVILLE MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K1Z 8G5	ENE	133.80	4
PRIVATE OWNER	1005 SILVER AVE. STORAGE TANK/BARREL OTTAWA CITY ON K1Z 6H8	N	248.30	13

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON ***Well ID:*** 1508490	SW	195.10	6
	lot 33 con 2 ON ***Well ID:*** 1510611	W	241.35	11

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON ***Well ID:*** 1508931	E	209.07	9



Map : 0.25 Kilometer Radius

Order Number: 20302600051

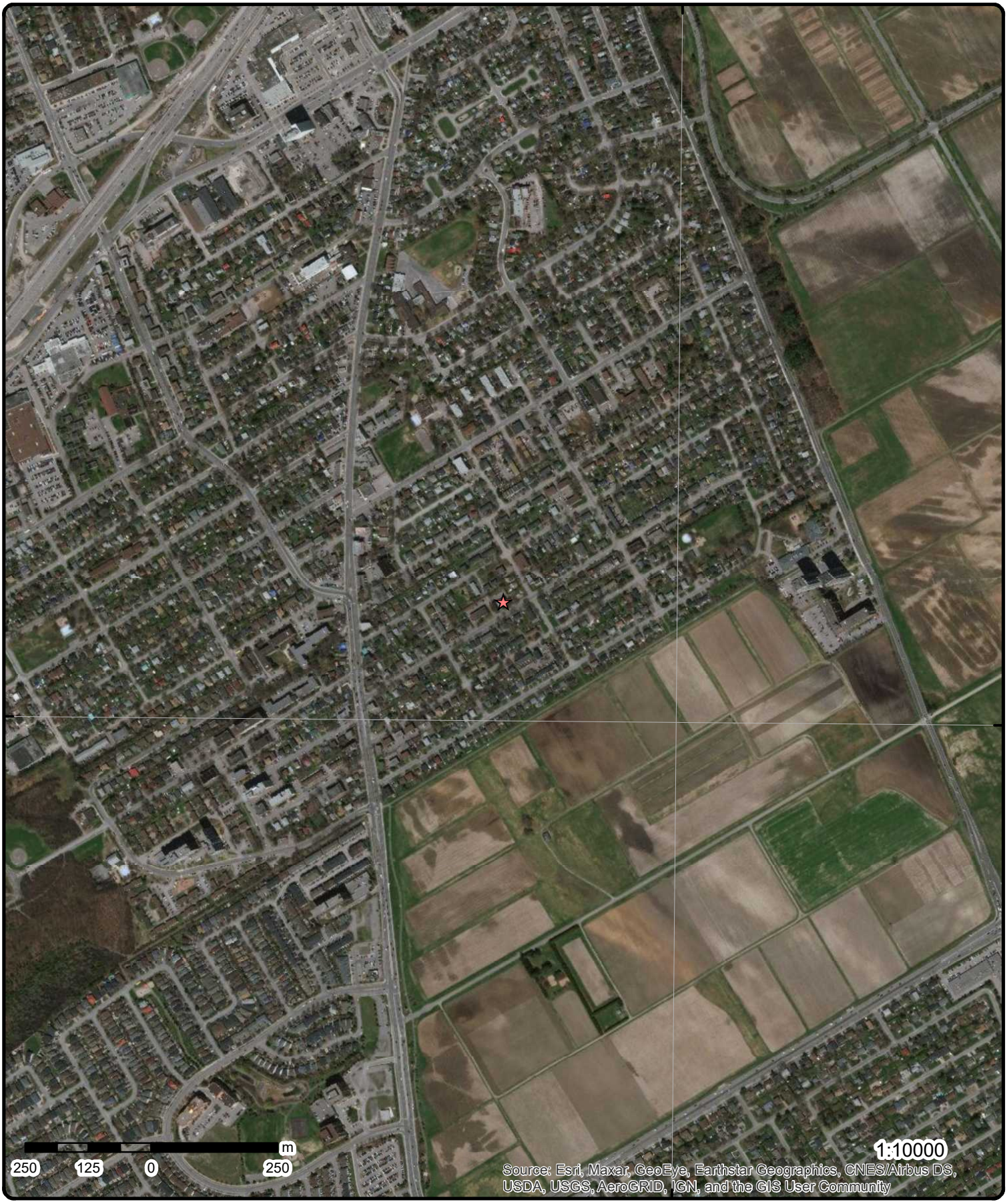
Address: 1291 Summerville Avenue, Ottawa, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road
- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line
- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

75°43'30"W

45°22'30"N



45°22'30"N

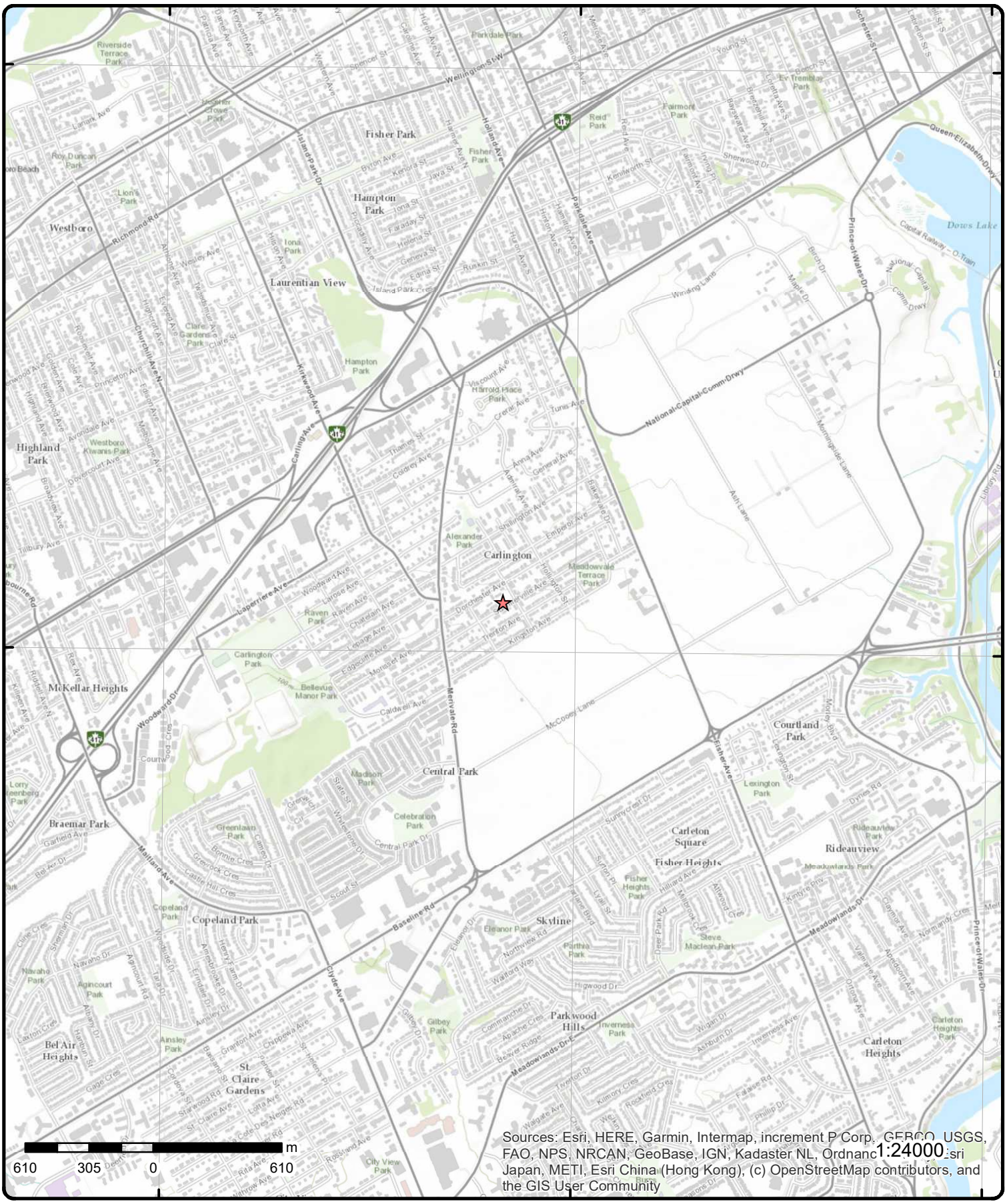
Aerial **Year: 2019**

Address: 1291 Summerville Avenue, Ottawa, ON

Source: ESRI World Imagery

Order Number: 20302600051

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 1291 Summerville Avenue, ON

Source: ESRI World Topographic Map

Order Number: 20302600051

ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ENE/73.9	79.9 / 0.17	ON	BORE

Borehole ID:	612815	**Inclin FLG:**	No
OGF ID:	215514121	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:	13.7	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.377381
Total Depth m:	-999	**Longitude DD:**	-75.728507
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	442961
Drill Method:		**Northing:**	5025132
Orig Ground Elev m:	82.9	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	82.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218392600	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:	Brown	**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. ROCK. BROWN,GREY,FISSURED. M, WATER STABLE AT 226.9 FEET.SAND. COMPACT. SAND.		

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: 053230 NTS_Sheet: 31G05G		
Confiden 1:	Logs are approximately correct. Lack of information. Doubtful terminology.		

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		

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

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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2 **1 of 3** **NE/91.0** **78.9 / -0.82** **1276 Dorchester**
Ottawa ON K1Z 8E6 **EHS**

Order No:	20191128020	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	29-NOV-19	**Search Radius (km):**	.001
Date Received:	28-NOV-19	**X:**	-75.728862
Previous Site Name:		**Y:**	45.377862
Lot/Building Size:			
Additional Info Ordered:			

---

2 **2 of 3** **NE/91.0** **78.9 / -0.82** **1276 Dorchester**
Ottawa ON K1Z 8E6 **EHS**

Order No:	20191128020	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	29-NOV-19	**Search Radius (km):**	.001
Date Received:	28-NOV-19	**X:**	-75.728862
Previous Site Name:		**Y:**	45.377862
Lot/Building Size:			
Additional Info Ordered:			

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2 **3 of 3** **NE/91.0** **78.9 / -0.82** **1276 Dorchester**
Ottawa ON K1Z 8E6 **EHS**

Order No:	20191128020	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	29-NOV-19	**Search Radius (km):**	.001
Date Received:	28-NOV-19	**X:**	-75.728862
Previous Site Name:		**Y:**	45.377862
Lot/Building Size:			
Additional Info Ordered:			

---

3 **1 of 1** **SSW/112.9** **82.6 / 2.86** **PRIVATE RESIDENCE**
1313 TRENTON AVE FURNACE OIL TANK
OTTAWA CITY ON K1Z 8K2 **SPL**

Ref No:	144982	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	8/12/1997	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	OTHER CONTAINER LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	20101
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	WORKS
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	

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

MOE Reported Dt:	8/12/1997	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	CORROSION	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PRIVATE RESIDENCE: UNK QUANTITY OF FURNACE OIL SPILLED TO FLOOR & DRAIN.		
Contaminant Qty:			

---

4 | **1 of 1** | **ENE/133.8** | **79.6 / -0.16** | **PRIVATE OWNER**
1256 SUMMERVILLE MOTOR VEHICLE (OPERATING FLUID)
OTTAWA CITY ON K1Z 8G5 | **SPL**

Ref No:	103121	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	7/23/1994	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	OTHER CONTAINER LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	NOT ANTICIPATED	**Site Municipality:**	20101
Nature of Impact:		**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	CITY OF OTTAWA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	7/23/1994	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	ERROR	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	10 L GASOLINE TO ROAD ANDCATCHBASIN FROM PRIVATE VEHICLE		
Contaminant Qty:			

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5 | **1 of 1** | **W/151.5** | **80.5 / 0.76** | **ON** | **BORE**

Borehole ID:	612812	**Inclin FLG:**	No
OGF ID:	215514118	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:	17.1	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.377183
Total Depth m:	-999	**Longitude DD:**	-75.731314
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	442741
Drill Method:		**Northing:**	5025112
Orig Ground Elev m:	86.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	85.8		
Concession:			
Location D:			
Survey D:			

Comments:

Borehole Geology Stratum

Geology Stratum ID:	218392594	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.9	***Material Texture:***	
Material Color:		***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.		

Geology Stratum ID:	218392595	***Mat Consistency:***	Compact
Top Depth:	.9	***Material Moisture:***	
Bottom Depth:		***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK. CLAY. SOFT. CLAY. FIRM, WATER STABLE AT 226.9 FEET.SAND. COMPACT. SAND. VERY HA **Note: Many records provided by the department have a truncated [Stratum Description] field.		

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:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 053200 NTS_Sheet: 31G05G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

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		

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6 ***1 of 1*** ***SW/195.1*** ***85.9 / 6.14*** ***ON*** ***WWIS***

Well ID:	1508490	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/26/1952
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3725
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	OTTAWA CITY
Elevation Reliability:		***Site Info:***	

Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
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\1508490.pdf

Bore Hole Information

Bore Hole ID:	10030524	***Elevation:***	90.582054
DP2BR:	8	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	442770.7
Code OB Desc:	Bedrock	***North83:***	5024952
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	9/30/1952	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931009800
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	8
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931009801
Layer:	2
Color:	1
General Color:	WHITE
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8
Formation End Depth:	121
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961508490
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10579094
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930053691
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930053692
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	121
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991508490
Pump Set At:	
Static Level:	12
Final Level After Pumping:	30
Recommended Pump Depth:	
Pumping Rate:	3
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	No

Water Details

Water ID:	933463014

Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 111
Water Found Depth UOM: ft

Water Details

Water ID: 933463012
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60
Water Found Depth UOM: ft

Water Details

Water ID: 933463013
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 80
Water Found Depth UOM: ft

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7 | **1 of 1** | **ENE/199.3** | **77.8 / -1.88** | **1239-1243 Summerville Ave Ottawa ON** | **EHS**

Order No: 20120919017
Status: C
Report Type: Standard Report
Report Date: 21-SEP-12
Date Received: 19-SEP-12
Previous Site Name: Residential
Lot/Building Size: 1800 sm
Additional Info Ordered:

Nearest Intersection:
Municipality: Ottawa
Client Prov/State: ON
Search Radius (km): .25
X: -75.727217
Y: 45.378074

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8 | **1 of 1** | **WSW/206.5** | **86.2 / 6.51** | **PRIVATE RESIDENCE 1343 SUMMERVILLE FURNACE OIL TANK OTTAWA CITY ON K1Z 8G9** | **SPL**

Ref No: 40590
Site No:
Incident Dt: 9/10/1990
Year:
Incident Cause: ABOVE-GROUND TANK LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/10/1990
Dt Document Closed:
Incident Reason: CORROSION
Site Name:
Site County/District:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site Geo Ref Meth:
Incident Summary: 300 LTR FURNACE OIL TO BASEMENT SUMP FROM HOME OIL TANK.
Contaminant Qty:

---

9 | **1 of 1** | **E/209.1** | **78.9 / -0.85** | **ON** | **WWIS**

Well ID:	1508931	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/12/1953
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3718
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OTTAWA CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
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\1508931.pdf

Bore Hole Information

Bore Hole ID:	10030965	**Elevation:**	80.497505
DP2BR:	0	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	443095.7
Code OB Desc:	Bedrock	**North83:**	5025152
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	5/23/1953	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931010987
Layer:	1
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0

Formation End Depth:	50
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931010988
Layer:	2
Color:	8
General Color:	BLACK
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50
Formation End Depth:	64
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961508931
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10579535
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930054561
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	64
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930054560
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	29
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991508931
Pump Set At:	
Static Level:	6
Final Level After Pumping:	6
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933463641
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	40
Water Found Depth UOM:	ft

---

10 | ***1 of 1*** | ***SW/224.8*** | ***87.6 / 7.84*** | ***IMPERIAL OIL LTD.***
ESSO S.S. AT 1347 TRENTON AVE. ESSO SERVICE STATION
OTTAWA CITY ON K1Z 8K3 | ***SPL***

Ref No:	124015	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	2/9/1996	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	20101
Nature of Impact:	Multi Media Pollution	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	MCCR
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2/27/1996	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	ERROR	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO: 4 L OF GASOLINE TO LOT, NOT CLEANED UP PROP-ERLY,CLEANUP COMPLETED.		
Contaminant Qty:			

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11 | ***1 of 1*** | ***W/241.3*** | ***81.7 / 1.95*** | ***lot 33 con 2***
ON | ***WWIS***

Well ID:	1510611	**Data Entry Status:**	
Construction Date:		**Data Src:**	1

Primary Water Use:	Domestic	**Date Received:**	11/12/1949
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3566
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OTTAWA CITY (NEPEAN)
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	033
Well Depth:		**Concession:**	02
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/151\1510611.pdf

Bore Hole Information

Bore Hole ID:	10032637	**Elevation:**	87.185356
DP2BR:	13	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	442650.7
Code OB Desc:	Bedrock	**North83:**	5025102
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	9/3/1949	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931015363
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	12
Mat3 Desc:	STONES
Formation Top Depth:	0
Formation End Depth:	13
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931015364
Layer:	2
Color:	
General Color:	

Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 13
Formation End Depth: 85
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510611
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10581207
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930057850
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 13
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930057851
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 85
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991510611
Pump Set At:
Static Level: 21
Final Level After Pumping: 42
Recommended Pump Depth:
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 6
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2

Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933465639
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	85
Water Found Depth UOM:	ft

Water Details

Water ID:	933465638
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	56
Water Found Depth UOM:	ft

---

12 ***1 of 1*** ***S/242.7*** ***87.3 / 7.56*** ***ON*** ***BORE***

Borehole ID:	612780	**Inclin FLG:**	No
OGF ID:	215514086	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:		**Municipality:**	
Static Water Level:	20.2	**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.374945
Total Depth m:	-999	**Longitude DD:**	-75.72937
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	442891
Drill Method:		**Northing:**	5024862
Orig Ground Elev m:	89.3	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	89.9		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218392476	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Soil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SOIL.		

Geology Stratum ID:	218392478	**Mat Consistency:**	Firm

Top Depth:	3.4	**Material Moisture:**	
Bottom Depth:		**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BEDROCK. AND. LOOSE. SAND. FIRM. SAND. LOOSE. SAND. FIRM. BOULDERS. SILT. BEDROCK.		

Geology Stratum ID:	218392477	**Mat Consistency:**	
Top Depth:	.3	**Material Moisture:**	
Bottom Depth:	3.4	**Material Texture:**	
Material Color:		**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.		

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:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 052880 NTS_Sheet: 31G05G		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

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
13	1 of 1	N/248.3	76.9 / -2.85	PRIVATE OWNER 1005 SILVER AVE. STORAGE TANK/BARREL OTTAWA CITY ON K1Z 6H8	SPL

Ref No:	42668	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	10/26/1990	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	OTHER CONTAINER LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	20101
Nature of Impact:	Water course or lake	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	OTTAWA WORKS DEPT.
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/26/1990	**Site Map Datum:**	

Dt Document Closed: ***SAC Action Class:***
Incident Reason: CORROSION ***Source Type:***
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: 450 L OF FURNACE OIL TO RESIDENT'S BASEMENT AND SEWER DRAIN.
Contaminant Qty:

Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
WWIS		con A	ON	
WWIS		con A	ON	

Unplottable Report

Site:
con A ON

Database:
WWIS

Well ID:	1527904	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Not Used	***Date Received:***	4/26/1994
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	6841
Casing Material:		***Form Version:***	1
Audit No:	143953	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	A
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10049459	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:		***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961527904
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	10598029
Casing No:	1
Comment:	
Alt Name:	

Site:

con A ON

Database:
WWIS

Well ID:	1532634	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	1/17/2002
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	4006
Casing Material:		***Form Version:***	1
Audit No:	235222	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	A
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10523763	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	12/5/2001	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961532634
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11072333
Casing No:	1
Comment:	
Alt Name:	

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 Sep 2020

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-Jun 30, 2020

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.
Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

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: Jul 31, 2020

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-Jun 30, 2020

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 - Sep 2020

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-Dec 2019

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-Sep 30, 2020

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 2019

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: Jul 31, 2020

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-Sep 30, 2020

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-Sep 30, 2020

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-Sep 30, 2020

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-Jul 31, 2020

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, 2019

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: Jul 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-Apr 2020

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: Jul 31, 2020

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-Jul 31, 2020

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 2017

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: Jul 31, 2020

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-Jan 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, 2018

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-Mar 31, 2020

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-Aug 31, 2020

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-Jun 2020

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-Sep 30, 2020

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-Sep 30, 2020

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.
The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Feb 28, 2017

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-Sep 30, 2020

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: 1986-2016

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-Sep 2020

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-Jun 30, 2020

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.
The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Nov 2019

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, 2017

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-Aug 2018

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: Jul 31, 2020

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-Sep 30, 2020

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: Apr 30, 2020

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

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

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

2014 – 2015
Thurber Engineering Limited
Oil Sand Tailings Group
Tailings Engineer

2009 – 2014
Carleton University
Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009
SLR Consulting Limited
Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

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