



**Ottawa Carleton District School Board  
1224 Stittsville Main Street  
Stittsville, Ontario  
K2S 1S6**

**Phase I Environmental Site Assessment  
Elmdale Public School  
49 Iona Street  
Ottawa, Ontario**

**MM1027**

**November 2, 2018**

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## **1 INTRODUCTION**

CM3 Environmental (CM3) was retained by the Ottawa Carleton District School Board (OCDSB) to carry out a Phase I Environmental Site Assessment (ESA) for Elmdale Public School, located at 49 Iona Street Ottawa, Ontario (“site” or “subject property”).

### **1.1 Phase I Property Information**

The subject property is located on the north side of Iona Street in Ottawa, Ontario (**Figure 1**). The civic address for the subject property is 49 Iona Street Ottawa, Ontario. The legal description is Plan M48, Lots 2243-53 Java S; Lots 2254-64 Iona N and Lots; 2241-42 2265-66 Clarendon W; known as Elmdale Public School. The property identification number for the subject property is 040280165. The subject property is zoned I1 for minor institutional. The current property owner is the OCDSB and is occupied by Elmdale Public School.

### **1.2 Phase I Objective**

The objective of this Phase I ESA was to identify potential or actual environmental concerns and/or liabilities on the site associated with activities at the site and/or from activities on surrounding properties. The Phase I was completed in support of a City of Ottawa Site Plan Control application for an addition to the school. The Phase I was not completed in support of the filing of a record of site condition (RSC).

## **2 PHASE I ENVIRONMENTAL SITE ASSESSMENT SCOPE OF INVESTIGATION**

### **2.1 Methodology**

CM3 completed the Phase I ESA following the general requirements of the Canadian Standards Association (CSA) Standard Z768-01 (R2012) and in general accordance with Ontario Regulation (O. Reg.) 153/04. The scope of work for the Phase I ESA included:

- A historical document review including air photographs;
- A search of the pertinent records from municipal, provincial and federal agencies;
- Reconnaissance of the property and interviews with owners/employees; and
- The preparation of the Phase I ESA report.

## **3 RECORDS REVIEW**

CM3 completed a review of historical records relevant to the subject property, including historical databases, geological maps, aerial photographs, and drawings available in the OCDSB Digital Drawing Library. A radius of 300 m from the subject property was investigated to identify potentially contaminating activities (PCAs) as provided by O.Reg. 153/04. The majority of the database information was obtained through EcoLog ERIS; a private environmental database and information service that provides environmental and historical information from governmental (Federal and Provincial), and private source records. The findings of the EcoLog ERIS records and OCDSB drawings review are incorporated into the following sections.

### **3.1 General**

#### **3.1.1 Phase I Study Area**

The Phase I study area included the subject property (Elmdale Public School) and all lands within a 300 m radius of the property boundary. The Phase I study area is illustrated on Figure 3.

#### **3.1.2 First Developed Use Determination**

The first developed land use was determined based on the historical records search and historical aerial photographs. It is suspected that prior to development, the land use in the Phase I Study Area was agricultural. The subject site was developed for its current land use as a school in 1928. The area surrounding the subject property appears to have been developed for residential use prior to 1928 and residential development continued up to 1958.

#### **3.1.3 Fire Insurance Plans**

A fire insurance plan (FIP) search was requested from EcoLog ERIS. The search returned a Firemaps from 1922, 1938 and 1948. The insurance plans did not provide any details of environmental concerns within the Phase I Study area. The insurance documents are provided in **Appendix C**.

#### **3.1.4 Chain of Title**

A chain of title search was requested from EcoLog ERIS. CM3 has not received the chain of ownership of the subject property but it is assumed that the Ottawa Carleton District School Board or Ottawa School Board has owned the property since approximately 1928.

<b>Table 1: Chain of Title</b>	
<b>Date</b>	<b>Owner</b>
Approx 1928 - Present	Ottawa School Board / Ottawa Carleton District School Board

The chain of title records are provided in **Appendix D**.

#### **3.1.5 City Directory Search**

A city directory search was conducted for the subject property. The subject property was not listed up to and including 1926. The first listing for the subject property was Elmdale Public School in 1930. The site was listed as Elmdale Public School up to 2001/2002. The site listing included Ottawa Board of Education and Ottawa-Carleton District School Board from 2001/2002 to 2011 and Canadian Mothercraft Of Ottawa Carleton in 2006/2007 and 2011. A city directory search for the surrounding properties was not completed as they are all residential. The city directory is included in **Appendix E**.

### **3.1.6 Previous Environmental Studies**

CM3 reviewed the following readily available environmental reports for the subject property:

- CM3 Environmental Inc. 2018, Environmental Monitoring and Contaminant Management Plan – 2018, Elmdale Public School 49 Iona Street Ottawa, Ontario.

The CM3 report was prepared as part of an annual site monitoring program dating back to 2011. The annual site monitoring program and contaminant management plan was implemented to address petroleum hydrocarbon impacts discovered in 2009, during construction activities. The impacts were discovered in the coal storage room. Subsequent assessment activities consisted of borehole/monitoring well advancement and groundwater sampling and monitoring. A total of twenty-eight (28) boreholes completed as monitoring wells (MW1 to MW28) were advanced in the interior and exterior of the school for the purpose of soil characterization and groundwater sampling. The assessment work indicated that residual soil and groundwater impacts in excess of the applicable Ontario Ministry of Environment standards were present at the site. The impacts were found in the basement in the vicinity of the existing boiler room and former coal storage room. The 2018 groundwater sampling results showed the presence of petroleum hydrocarbons and/or polycyclic aromatic hydrocarbons in seven monitoring wells at concentrations above the applicable Ontario Ministry of Environment standards. The impacts were generally located in the boiler room and in the area around the boiler room. CM3 concluded that the contamination has become stable and is not spreading because the source of the contamination was no longer present. CM3 recommended further environmental monitoring of the groundwater conditions.

In addition to the above, CM3 reviewed several project specific designated substance reports. The project specific reports identified asbestos in the mechanical pipe insulation, ceiling tile mastic, drywall joint compound and vinyl floor tiles & mastic. Suspected asbestos containing material included the roof membrane, exterior plaster on the overhang and the fire-resistant doors. Other designated substances identified or suspected included: lead in paint, soldered joints, glazing on ceramic finishes and on all copper piping; mercury in fluorescent light tubes, and high intensity discharge (HID) bulbs; ozone depleting substances (ODSs) in refrigerants in heat pumps, refrigerators, freezers and air conditioners (A/C); polychlorinated biphenyls (PCBs) in transformers, capacitors, electromagnets, heat transfer units, hydraulic engine and fluorescent lamp ballasts; and silica as crystalline silica within concrete structures such as walls, floors and stairs and in cement blocks, acoustic tiles and plaster.

## **3.2 Environmental Source Information**

### **3.2.1 Freedom of Information Request**

CM3 completed a freedom of information request for the property from the Ontario Ministry of the Environment, Conservation and Parks (MOECP). Records have been ordered but have not been received prior to this report being issued. If additional information becomes available that may affect the findings of this Phase I ESA, CM3 will provide an addendum to this report updating the findings. The freedom of information request is provided in **Appendix F**.

### **3.2.2 EcoLog ERIS Records Review**

EcoLog ERIS (EcoLog) is a private environmental database and information service that provides environmental and historical information from governmental (Federal and Provincial), and private source records. The databases that were searched are listed in the EcoLog documents (**Appendix G**). A search was requested for the site and the surrounding properties within a 300 m radius. Eleven records were identified on the subject property and 48 records were identified within the Phase I Study Area as of October 31, 2018. The records are summarized as follows:

#### Subject Property

- Ten listings in the Ontario Regulation 347 Waste Generators Summary; and
- One well record in the Ontario Water Well Information System (WWIS).

#### Phase I Study Area (Surrounding Properties within 300 m radius)

- Eight boreholes;
- Two Certificates of Approval (CofA);
- One commercial fuel oil tank;
- Six Environmental Compliance Authorizations (ECA);
- One ERIS historical searches;
- Two sites in the List of Technical Standards and Safety Authority (TSSA) Expired Facilities;
- One TSSA historic incident;
- Eight TSSA pipeline incidents;
- Five listings in the Scott's Manufacturing Directory;
- Eight listings in the Ontario spills database; and
- Five well records in the Ontario WWIS.

Details of the above are included in the EcoLog documents (**Appendix G**). The on-site records did not identify any environmental concerns. Potential concerns related to off site fuel storage tanks and hydrocarbon spills were identified within the Phase I study area.

A total of 65 database search items were identified in the EcoLog report but were unplotable sites (i.e. location unknown). The unplotable summary is provided in the ERIS report (**Appendix G**) and included:

- 14 CofAs;
- Six ECAs;
- Two ERIS historical searches;
- Four listings in the Ontario Regulation 347 Waste Generators Summary;
- One Retail Fuel Storage Tank; and
- 38 records in the Ontario spills database.

The majority of the above were not within the Phase I study area based on the addresses provided.

### 3.3 Physical Setting

#### 3.3.1 Aerial Photographs

Readily available aerial photographs (City of Ottawa geoOttawa mapping and Google Earth) dating from 1928 to 2017 were reviewed as part of this assessment. Photographs prior to 1928 were not available. Observations from the aerial photographs are provided in the following table:

Table 2: Aerial Photographs		
Property	Date(s)	Observations
Subject Property	1928	Site is vacant (undeveloped).
	1958	School is present. Some trees to the east and west of the school building.
	1965	Same as 1958. Parking areas visible on the east and west sides of the school building.
	1976 – 1991	Addition on the west side of the school. Two portable classrooms to the east of the school.
	1999 – 2011	Six portable classrooms east of the school. Play structure at the northeast corner of the property.
	2015 – 2017	Six portable classrooms (one more to the east of the school).
North	1928	Java Street. Residential and vacant properties.
	1958	Additional residential properties.
	1965 – 2017	Residential properties.
East	1928	Clarendon Avenue. Residential and vacant properties.
	1958 – 2017	Residential properties.
South	1928	Iona Street. Residential and vacant properties.
	1958-2017	Residential properties.
West	1928	Vacant (undeveloped).
	1958	Residential properties. Mayfair Avenue.
	1965 – 2017	Same as 1958

The subject property and surrounding properties appear to have been developed to their current state between 1928 and 1958. Minor changes to the subject property (building additions, parking lots, portable classrooms, play fields, landscaping, etc.) and adjacent properties appear to have occurred since 1958. The EcoLog ERIS supplied aerial photographs were not available at the time of issue of this report.

#### 3.3.2 Regional Topography

Topographical maps and observations during the site reconnaissance indicate the topography of the subject property is relatively flat with an elevation of approximately 69-72 m above sea level (m asl). Topographic maps are provided in **Appendix H**.

### **3.3.3 Regional Geology**

The surficial geology of the subject property was interpreted from the Ontario Geological Survey Surficial Geology of Southern Ontario (Miscellaneous Releases, 2010) and the EcoLog report. The surficial geology at the subject property consists of a stone-poor sandy silt to silty sand-textured till. The EcoLog Surficial Geology Maps are provided in **Appendix H**.

The bedrock geology of the subject property was interpreted from the Ontario Geological Survey Bedrock Geology of Ontario (Miscellaneous Releases, 2011) and the EcoLog report. The bedrock at the site consists of limestone, dolostone, shale, arkose and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation. The EcoLog bedrock geology map is provided in **Appendix H**.

### **3.3.4 Regional Hydrogeology**

The regional groundwater flow direction was inferred based on the topography at the subject property and surrounding area and the presence of local water bodies. The regional groundwater flow is inferred to be northwest-north towards the Ottawa River.

### **3.3.5 Fill Materials**

Information regarding fill materials was not available. However, it is assumed that fill was imported during the development of the subject property and the surrounding areas.

### **3.3.6 Water Bodies and Areas of Natural and Scientific Interest**

There are no water bodies within the Phase I Study Area. The Ottawa River is located approximately 2.1 km west and 1.9 km north of the site. The Rideau Canal (Dows Lake) and the Rideau River are approximately 2.4 km and 5.0 km east of the site, respectively.

Areas of natural and scientific interest (ANSI) were included in the EcoLog ERIS search. ANSIs were not located within the Phase I study area. The ANSI map is provided in **Appendix H**.

### **3.3.7 Well Records**

Six well records for the Phase I Study Area were identified in the Ontario Water Well Information System (WWIS). The well locations and use are summarized in the following table:

<b>Table 3: Well Records</b>		
<b>Well Type/Status</b>	<b>Total on Subject Property</b>	<b>Total within Phase I Study Area*</b>
Commercial/industrial	0	0
Domestic	0	0
Observation/test	1	3
Abandoned	0	2
Unknown	0	1

Table 3: Well Records		
Well Type/Status	Total on Subject Property	Total within Phase I Study Area*
Total	1	6

\* - includes wells on subject property

The well records are summarized in the EcoLog ERIS report (**Appendix G**). The record for the subject property indicated a well cluster, installed in 2011. The soil was described as sandy clay, silty clay, silt, sand and gravel, underlain by cobbles or boulders. The reported depth to water was 2.29 m below grade. CM3 located several wells at the subject property, installed as part of the previous site assessment. The well locations are included on **Figure 2**.

#### 4 SITE INTERVIEWS

The Elmdale Public School chief custodian was interviewed with regards to knowledge of the site history and operations. Information provided during the site interview is incorporated into the appropriate sections of this report.

#### 5 SITE RECONNAISSANCE

CM3 conducted a site visit on October 31, 2018. During the site investigation, all outdoor areas of the subject property were accessible. The site visit included the interior of the school building, the portable classrooms and the storage sheds as well as the roof top of the main building. Adjacent properties within the Phase I Study Area were observed from the subject property and publicly accessible areas.

##### 5.1 Subject Property

The subject property is rectangular in shape and is bounded by Iona Street to the south, Clarendon Avenue to the east, Java Street to the north and residential properties to the west. The total area of the subject property is approximately 1.15 hectares (2.85 acres). Access to the subject property is from the south of Iona Street or from the north of off Java Street. The subject property consists of the school building and seven portables, surrounded by asphalt play areas, driveways and parking areas. The remainder of the subject property included grass covered areas and play structures. Landscaping and trees are present around the school building. A site plan is provided as **Figure 2**. Photographs of the subject property are provided in **Appendix A**.

##### 5.2 Adjacent Properties

The subject property is located in a residential area and fronts south onto Iona Street. The properties adjacent to, and surrounding the subject property are provided on **Figure 3** and described in the following table:

Table 4: Adjacent Property Use	
Direction	Description
North adjacent	Java Street
North beyond	Residential
East adjacent	Clarendon Avenue
East beyond	Residential
South adjacent	Iona Street
South beyond	Residential
West adjacent	Residential
West beyond	Mayfair Avenue

Photographs of the adjacent properties are provided in Appendix A.

### 5.3 Specific Observations at the Subject Property

#### 5.3.1 Structures

The subject property includes one south facing three-storey school building, constructed in 1928. Additions to the school were constructed in 1938 and 1973. The school was constructed of concrete block and steel framing with a membrane/tar and gravel roof. Exterior finishes consisted of mainly brick veneer. Interior finishes included block, tile, concrete, plaster and brick. Flooring was a mix of ceramic, vinyl tile, terrazzo and concrete. Ceiling finishes observed consisted of acoustic ceiling tile (1'x1' and 2'x4' acoustic ceiling tile), steel decking and gypsum plaster. Photographs of the school are included in **Appendix A**.

The school was reportedly heated by coal at the time of construction and was later heated by a bunker C/fuel oil fired boiler until it was converted to natural gas. The underground fuel storage tank (UST) was located on the exterior of the building northeast of the boiler room. The boiler room is centrally located in the basement of the school. It is suspected that the UST was removed following the upgrade to natural gas. Documentation regarding the removal of the UST was not provided. The switch room is also located in the basement adjacent to the boilers.

An electrical transformer is located outside on the south side of the school adjacent to the natural gas line.

One concrete storage shed is located northwest of the school near the playground. The shed is not heated and is used to store sports equipment and outdoor school toys. There is a small building addition on the north side of the school used for storage of yard maintenance equipment and supplies including a snowblower and gasoline. The date of installation of the storage shed is not known. Photographs of the storage shed are provided in **Appendix A**.

Seven portable classrooms are located to the east of the school. The exterior of the portables are finished with metal sheathing. The portables are heated and cooled by separate stand-alone units vented throughout the portable by suspended ductwork.



### **5.3.2 Below Ground Structures**

No catch basins were observed on the school property. The water supply was observed exiting the south side of the building and are connected to the City of Ottawa municipal systems on Iona Street. The location of the sanitary system piping was not observed but it is presumed that it exits the building with the domestic water supply towards Iona Street on the south side. The natural gas line was located on the south side of the building and connected to the main at Iona Street. Hydro is supplied in a buried conduit between the school and the transformer which is located on the south side of the school.

### **5.3.3 Storage Tanks**

No aboveground or underground storage tanks were observed on the subject property.

Historic information identified one underground storage tank (UST) to the northeast of the boiler room. It is CM3's understanding that the UST was removed following the conversion of the heating system to natural gas.

### **5.3.4 Floor Drains and Sumps**

One sump pit was located in the basement of the school discharging to the municipal storm/sanitary sewer. Water was not present in the sump at the time of the site visit.

### **5.3.5 Water Supply**

The subject property is supplied water by the City of Ottawa municipal water supply. The water supply line was located on the south side of the school.

### **5.3.6 Waste Water**

Waste water from the subject property is discharged to the City of Ottawa municipal sewer system. The sewer discharge line location is unknown but it is presumed that it exits the south side of the building and is connected to the municipal sewer at Iona Street.

### **5.3.7 Surface Water or Wetlands**

Surface water and wetlands were not identified on the subject property.

### **5.3.8 Areas of Stained Soil, Vegetation or Pavement**

Areas of stained soil, vegetation or pavement were not identified during the site visit.

### **5.3.9 Stressed Vegetation**

Areas of stressed vegetation were not identified during the site visit.

### **5.3.10 Fill or Debris**

Piles of fill or debris were not identified during the site visit.

### **5.3.11 Polychlorinated Biphenyls (PCBs)**

PCBs may be present in transformers, capacitors, electromagnets, heat transfer units, and fluorescent lamp ballasts at the site. One electrical transformer was located to the south of the school. The transformer appeared to be in good condition with no obvious signs of staining or stressed vegetation.

### **5.3.12 Dry-Cleaning Operations**

Dry cleaning operations were not identified at the subject property or within the Phase I study area.

### **5.3.13 Pesticides**

Pesticides and herbicides were not observed at the subject property.

### **5.3.14 Designated Substances**

This Phase I ESA did not include any analytical testing of building materials for designated substances such as asbestos, lead, PCBs and silica. CM3's observations regarding designated substances were limited to materials visible during the Phase I ESA. Pipes and materials located behind walls and ceilings were not inspected during this Phase I ESA.

Numerous designated substance reports have been prepared for the site and have identified asbestos containing materials in wall plaster, pipe insulation, floor tiles etc. Suspected asbestos containing material included the roof membrane, exterior plaster on the overhang and the fire-resistant doors.

Other designated substances identified or suspected included: lead in paint, soldered joints, glazing on ceramic finishes and on all copper piping; mercury in fluorescent light tubes, and high intensity discharge (HID) bulbs; ozone depleting substances (ODSs) in refrigerants in heat pumps, refrigerators, freezers and air conditioners (A/C); polychlorinated biphenyls (PCBs) in transformers, capacitors, electromagnets, heat transfer units, hydraulic engine and fluorescent lamp ballasts; and silica as crystalline silica within concrete structures such as walls, floors and stairs and in cement blocks, acoustic tiles and plaster.

Air conditioning units were present on the roof of the school. Multiple window-mounted air conditioning units were also observed at the school. The air conditioning units may contain ODSs ozone depleting substances.

The remaining designated substances (ethylene oxide, vinyl chloride, benzene, arsenic, coke oven emissions, acrylonitrile and isocyanates) are not typically found in the construction of buildings of this type, and are usually exclusive to industrial processes.

### **5.3.15 Solid (Non-hazardous) Waste**

Solid waste concerns were not observed at the subject property.

### **5.3.16 Hazardous Waste**

Hazardous wastes were not observed at the subject property.

### **5.3.17 Existing Groundwater Issues**

The 2018 groundwater sampling results from the monitoring wells in and around the boiler room showed the presence of petroleum hydrocarbons and/or polycyclic aromatic hydrocarbons in seven monitoring wells at concentrations above the applicable Ontario Ministry of Environment standards. Further details may be found in CM3 Environmental Inc. 2018, Environmental Monitoring and Contaminant Management Plan – 2018, Elmdale Public School 49 Iona Street Ottawa, Ontario.

### **5.3.18 Air Emissions**

Negative air emissions were not observed at the subject property. A chimney is located adjacent to the boiler room. It is suspected the chimney stack was decommissioned following the conversion to natural gas.

### **5.3.19 Radon**

Radon is not likely a concern at the subject property, based on the review of available information. The radon rank was considered low as indicated in the Physical Setting Report is **Appendix H**. However, radon testing would be required to conclusively rule out radon impacts.

## **6 EVALUATION OF FINDINGS**

### **6.1 Current and Past Land Uses**

The subject property was developed in approximately 1928 and has been operated as a school since its development. The school building was originally heated using coal fired burners, converted to bunker C/fuel oil fired equipment (date unknown) and later to natural gas (date unknown). The subject property is operated as a public school and had limited quantities of laboratory chemicals, general maintenance cleaning supplies, paints (pigments, solvents) and compressed gases, as listed in the O.Reg. 347 waste generators records. Cleaning supplies and fuel/supplies for yard maintenance equipment (i.e. snowblower) were present in limited quantities in secured storage areas.

## 6.2 Potentially Contaminating Activities

The potentially contaminating activities (PCAs) identified at the subject property are provided in the following table:

<b>Table 5: Subject Property Potentially Contaminating Activities</b>		
<b>Item</b>	<b>PCA</b>	<b>Description of Activity</b>
18	Electricity generation, transformation and power stations	Electrical transformer at the east side of the subject property
28	Gasoline and associated products storage in fixed tanks	Former bunker C/fuel oil storage tank at the northeast corner of the building and associated piping and heating equipment

CM3 did not identify any other PCAs or environmental concerns at the subject property.

The PCAs identified on the adjacent properties within the Phase I Study Area are provided in the following table:

<b>Table 6: Phase I Study Area Potentially Contaminating Activities</b>		
<b>Item</b>	<b>PCA</b>	<b>Description of Activity</b>
28	Gasoline and associated products storage in fixed tanks	2017 residential furnace oil spill northeast of site 2011 fuel oil incident east-southeast of site Commercial fuel oil tank (expired 2009) south-southwest of site 1992 truck (pipe) leak south-southwest of site

No other PCAs were identified on the adjacent properties within the Phase I study area.

## 6.3 Areas of Potential Environmental Concern

Areas of potential environmental concern (APECs) were identified based on the findings of this Phase I ESA. The above PCAs were evaluated with respect to the location (source) of the PCA and the potential pathways/migration relative to the subject property and receptors at the subject property. Consideration was also given to higher risk PCAs with respect to potential environmental liability. The following APECs and contaminants of concern (COCs) were identified:

<b>Table 7: Areas of Potential Environmental Concern</b>			
<b>APEC</b>	<b>Location</b>	<b>Cause of Concern</b>	<b>COC</b>
1	Areas in and adjacent to boiler room and former UST	Former bunker C/fuel oil UST and boilers	BTEX, PHCs F1-F4, PAHs

BTEX - Benzene, toluene, ethylbenzene, xylenes  
PHCs F1-F4 - Petroleum hydrocarbons F1 to F4 fractions  
PAHs - Polycyclic aromatic hydrocarbons

The location of the APEC is provided on **Figure 4**.

## **7 CONCLUSIONS**

The findings of the Phase I ESA identified 1 area of potential and known environmental concern on the subject property (boiler room area). Areas of potential environmental concern were not identified on adjacent properties. The contaminants of concern were identified as BTEX, PHCs F1-F4 fractions and PAHs.

### **7.1 Is a Phase II Required?**

CM3 does not recommend a Phase II ESA for the subject property with respect to the APEC. Previous Phase II ESAs and supplemental investigations have shown the presence of PHCs and PAHs impacts to soil and groundwater in the area around the boiler room. Based on current reports, the extent of the contamination is defined and contained within the property. It is recommended that the existing contaminant management plan be continued.

## **8 LIMITATIONS**

This report has been prepared and the work referred to in this report has been undertaken by CM3 Environmental Inc. for Ottawa Carleton District School Board. It is intended for the sole and exclusive use of Ottawa Carleton District School Board, its affiliated companies and partners and their respective insurers, agents, employees and advisors. Any use, reliance on, or decision made by any person other than Ottawa Carleton District School Board based on this report is the sole responsibility of such other person. CM3 Environmental Inc. and Ottawa Carleton District School Board make no representation or warranty to any other person with regard to this report and the work referred to in this report, and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by CM3 Environmental Inc. with respect to this report and any conclusions or recommendations made in this report reflect CM3 Environmental Inc.'s judgement based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon visual observation of the site, subsurface investigation at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, portions of the site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site, substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the location from which samples were taken.

If site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by Ottawa Carleton District School Board, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of CM3 Environmental Inc. Nothing in this report is intended to constitute or provide a legal opinion.

We trust that the above is satisfactory for your purposes at this time. Please feel free to contact the undersigned if you have any questions.

Yours sincerely,

**CM3 Environmental Inc.**



Sean Parsons  
Environmental Technician



Karl Bilyj, P.Geo., QP  
Geoscientist



Marc MacDonald, P.Eng. QP, EP  
Principal



# **FIGURES**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

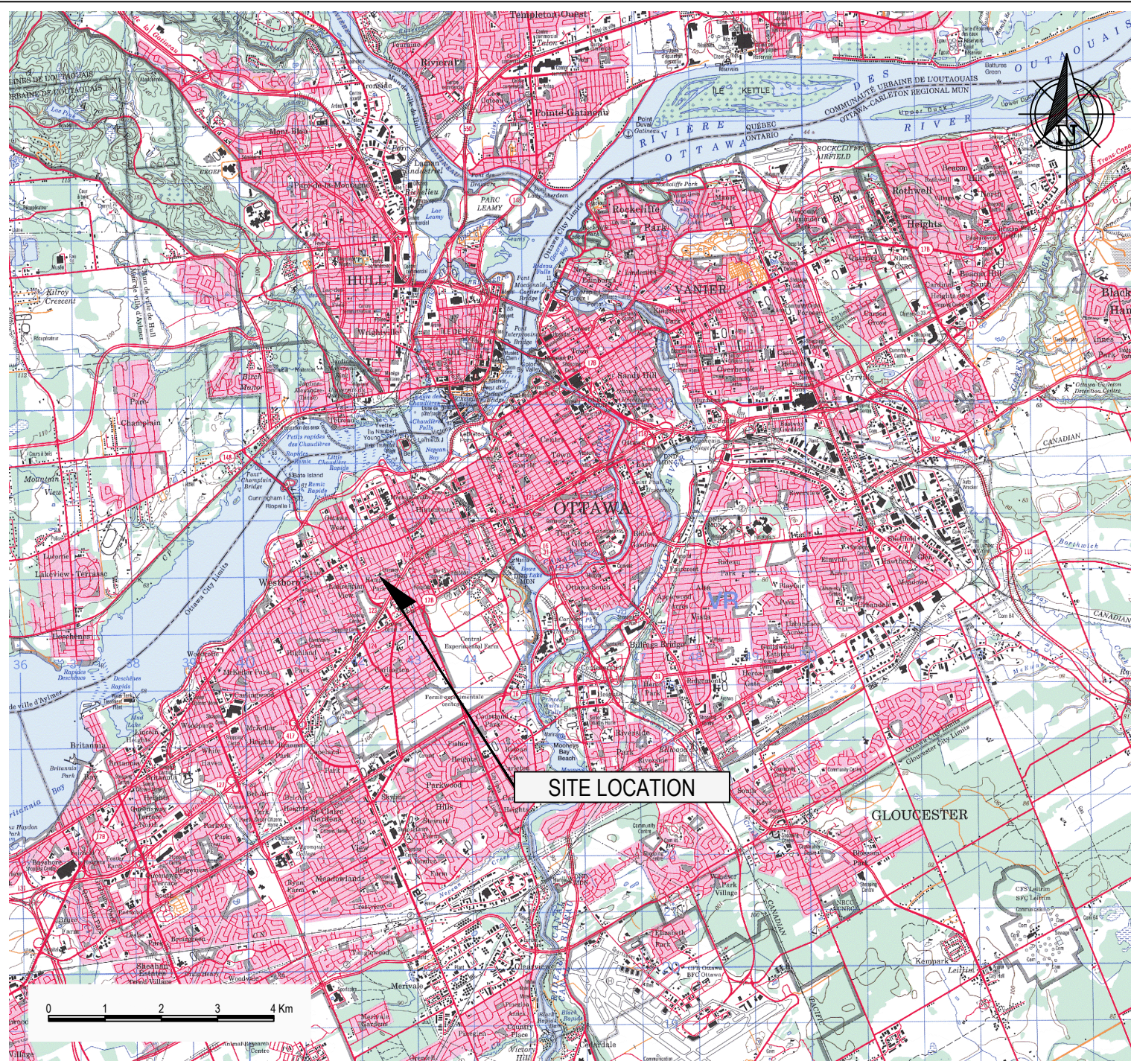
**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**





CM3 ENVIRONMENTAL  
5710 AKINS ROAD, OTTAWA, ON  
K2S 1B8



OTTAWA-CARLETON  
DISTRICT SCHOOL BOARD

OCDSB

PHASE I ENVIRONMENTAL SITE  
ASSESSMENT  
ELMDALE PUBLIC SCHOOL  
49 IONA STREET  
OTTAWA, ON

SITE LOCATION

Project:	MM1027	Drawn By:	MWM
Date:	OCT 2018	Reviewed By:	MM
Scale:	AS SHOWN	Figure:	1



RESIDENTIAL



JAVA STREET

BOILER ROOM

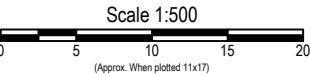
FORMER UST

CLAREDON AVENUE

IONA STREET

RESIDENTIAL

- LEGEND**
- PROPERTY BOUNDARY
  - SITE
  - MONITORING WELL
  - TRANSFORMER



CM3 ENVIRONMENTAL  
5710 AKINS ROAD, OTTAWA, ON  
K2S 1B8



OCDSB

PHASE I ENVIRONMENTAL SITE  
ASSESSMENT  
ELMDALE PUBLIC SCHOOL  
49 IONA STREET  
OTTAWA, ON

SITE PLAN

Project:	MM1027	Drawn By:	MWM
Date:	OCT 2018	Reviewed By:	MM
Scale:	1:500	Figure:	2

THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. NOT ALL STRUCTURES,  
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NOT BE GIVEN OUT, COPIED OR DUPLICATED FOR THE USE OF ANOTHER BUT SHALL  
BE USED ONLY BY THE RECIPIENT FOR THE PURPOSE TO WHICH IT REFERS.






- LEGEND**
- SUBJECT PROPERTY
  - PHASE I STUDY AREA (APPROX. 300m)



CM3 ENVIRONMENTAL  
5710 AKINS ROAD, OTTAWA, ON  
K2S 1B8



OCCSB

PHASE I ENVIRONMENTAL SITE  
ASSESSMENT  
ELMDALE PUBLIC SCHOOL  
49 IONA STREET  
OTTAWA, ON

PHASE I STUDY AREA

Project:	MM1027	Drawn By:	MWM
Date:	OCT 2018	Reviewed By:	MM
Scale:	1:3000	Figure:	3

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RESIDENTIAL



JAVA STREET

BOILER ROOM

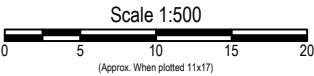
FORMER UST

CLAREDON AVENUE

IONA STREET

RESIDENTIAL

- LEGEND**
- PROPERTY BOUNDARY
  - SITE
  - MONITORING WELL
  - TRANSFORMER
  - AREA OF POTENTIAL ENVIRONMENTAL CONCERN



CM3 ENVIRONMENTAL  
5710 AKINS ROAD, OTTAWA, ON  
K2S 1B8



OCDSB

PHASE I ENVIRONMENTAL SITE  
ASSESSMENT  
ELMDALE PUBLIC SCHOOL  
49 IONA STREET  
OTTAWA, ON

AREA OF POTENTIAL ENVIRONMENTAL  
CONCERN

Project:	MM1027	Drawn By:	MWM
Date:	OCT 2018	Reviewed By:	MM
Scale:	1:500	Figure:	4

THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. NOT ALL STRUCTURES,  
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BE USED ONLY BY THE RECIPIENT FOR THE PURPOSE TO WHICH IT REFERS.

# **APPENDIX A**

## **SITE PHOTOGRAPHS**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 1:** Front view of subject building



**Photograph 2:** Subject Property Looking north from Iona Street

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 3:** View of east side of subject building



**Photograph 4:** View of north side of subject building



**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 5:** View of west side of subject building



**Photograph 6:** View of waste collection bins

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 7:** Hydro transformer on south side of subject building



**Photograph 8:** View of portables on east side of the building



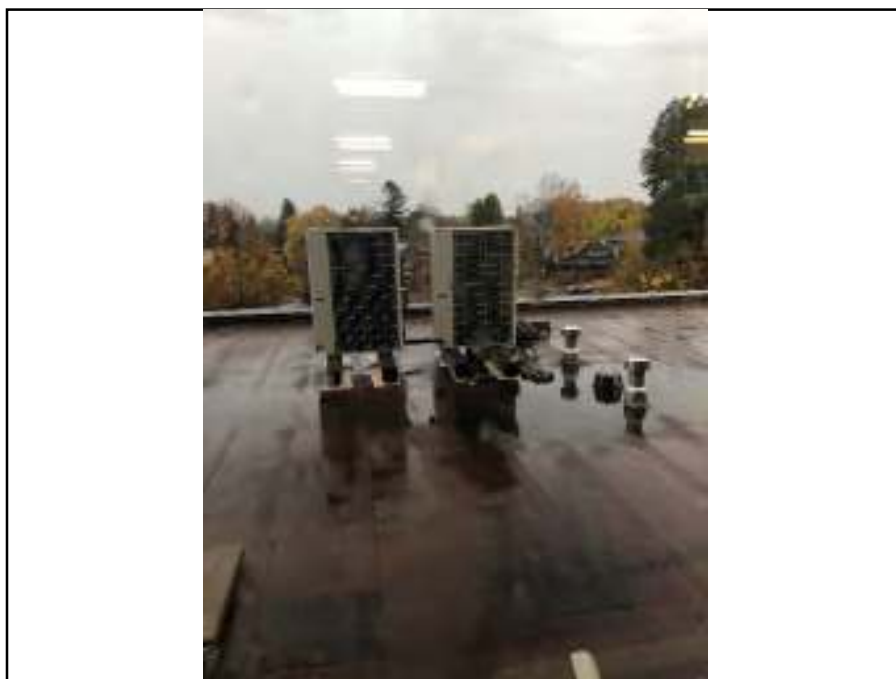
**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 9:** View of outbuilding on west side of the subject property



**Photograph 10:** View of AC units on roof of building

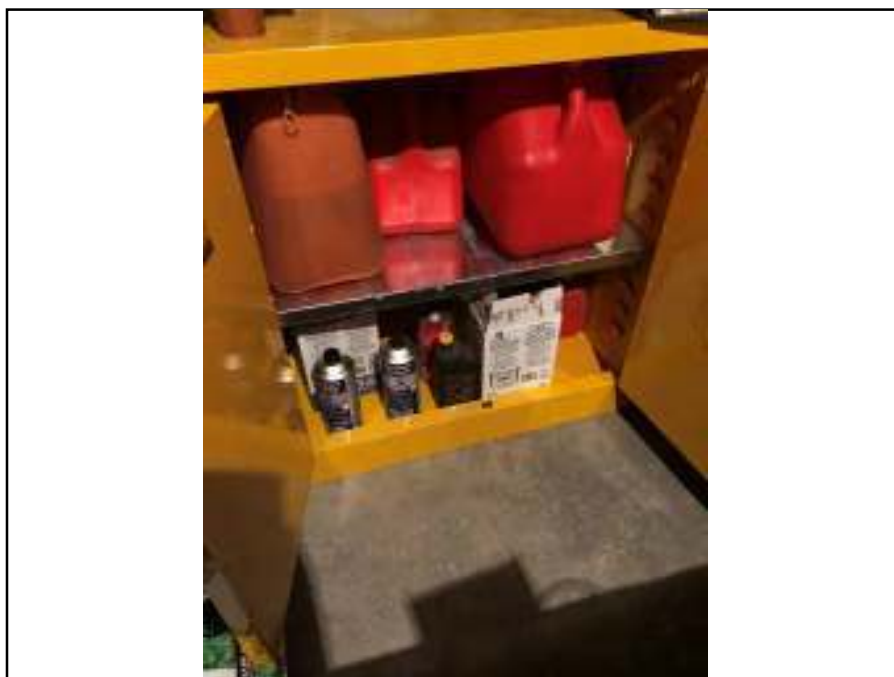
**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 11:** View of exterior geotechnical monitoring well

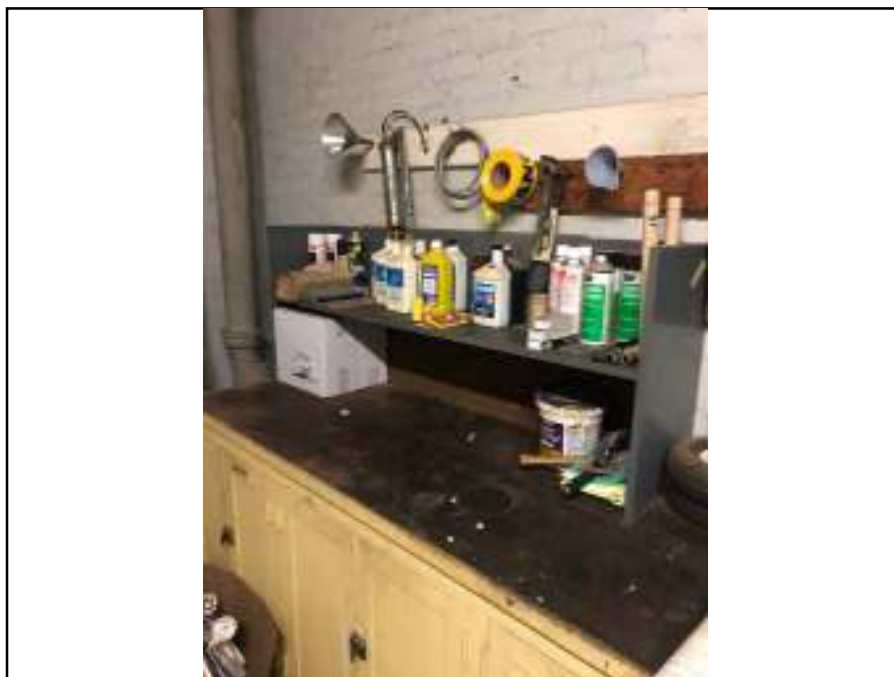


**Photograph 12:** Fuel Storage for yard equipment

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 13:** View of aerosols, solvents and oil



**Photograph 14:** View of custodial supplies

## APPENDIX A PHOTOGRAPHIC RECORD



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 15:** View of window AC unit



**Photograph 16:** : View of natural gas fired boilers



**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 17:** View of domestic hot water tank



**Photograph 18:** View of decommissioned fuel oil supply lines

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 19:** View of floor drain in boiler room



**Photograph 20:** View of sump pit in basement

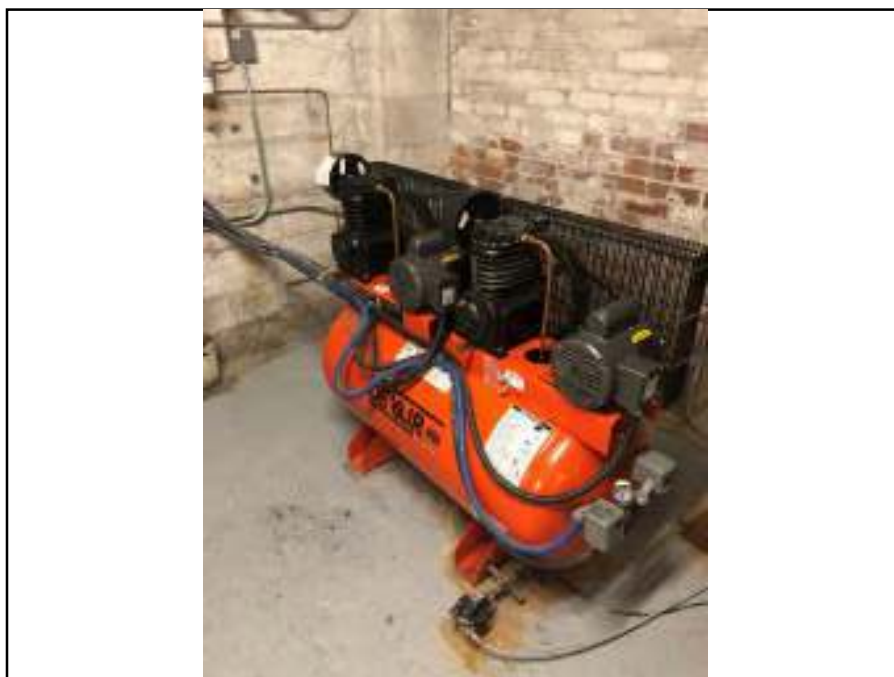
**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 19:** View of interior monitoring well

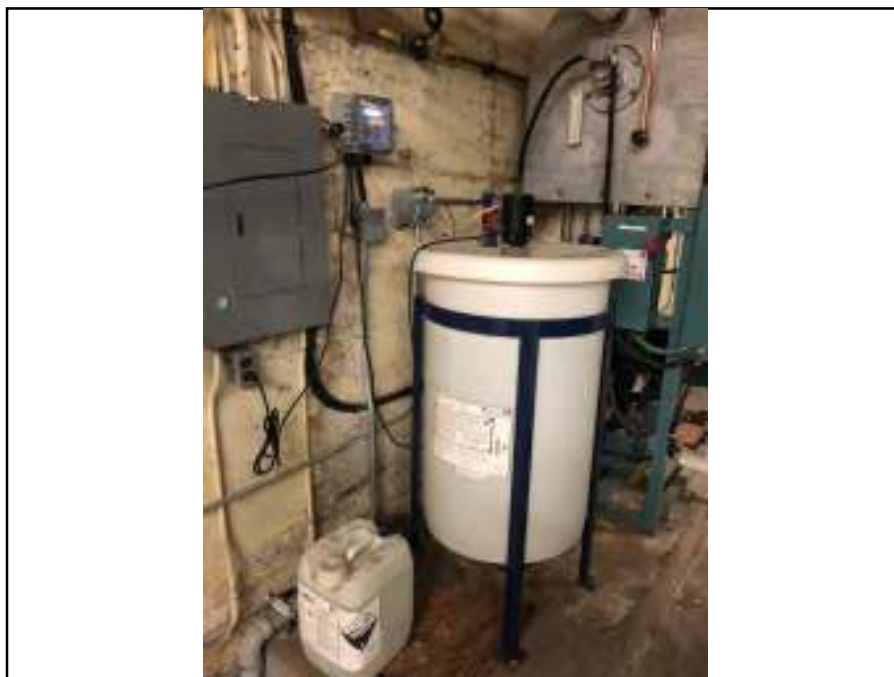


**Photograph 20:** View of compressor in basement

**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 19:** View of sodium hydroxide storage and mixing tank



**Photograph 20:** View of floor drain in boiler room



**APPENDIX A**  
**PHOTOGRAPHIC RECORD**



<b>Client:</b> OCDSB	<b>Job Number:</b> MM1027
<b>Site Name:</b> Elmdale Public School	<b>Location:</b> 49 Iona Street, Ottawa, Ontario
<b>Photographer:</b> SP	<b>Date:</b> October 31, 2018



**Photograph 19:** View of former coal storage room in basement



**Photograph 20:** View of thermostat containing mercury

# **APPENDIX B**

## **AERIAL PHOTOGRAPHS**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**

Pending

# **APPENDIX C**

## **FIRE INSURANCE PLANS**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**



# enviroscan



An SCM Company

175 Commerce Valley Drive W  
Markham, Ontario L3T 7Z3

T: 905-882-6300  
W: [www.optaintel.ca](http://www.optaintel.ca)

Report Completed By:

Sunita

Site Address:

49 Iona Street Ottawa Ont.

Project No:

20181030014

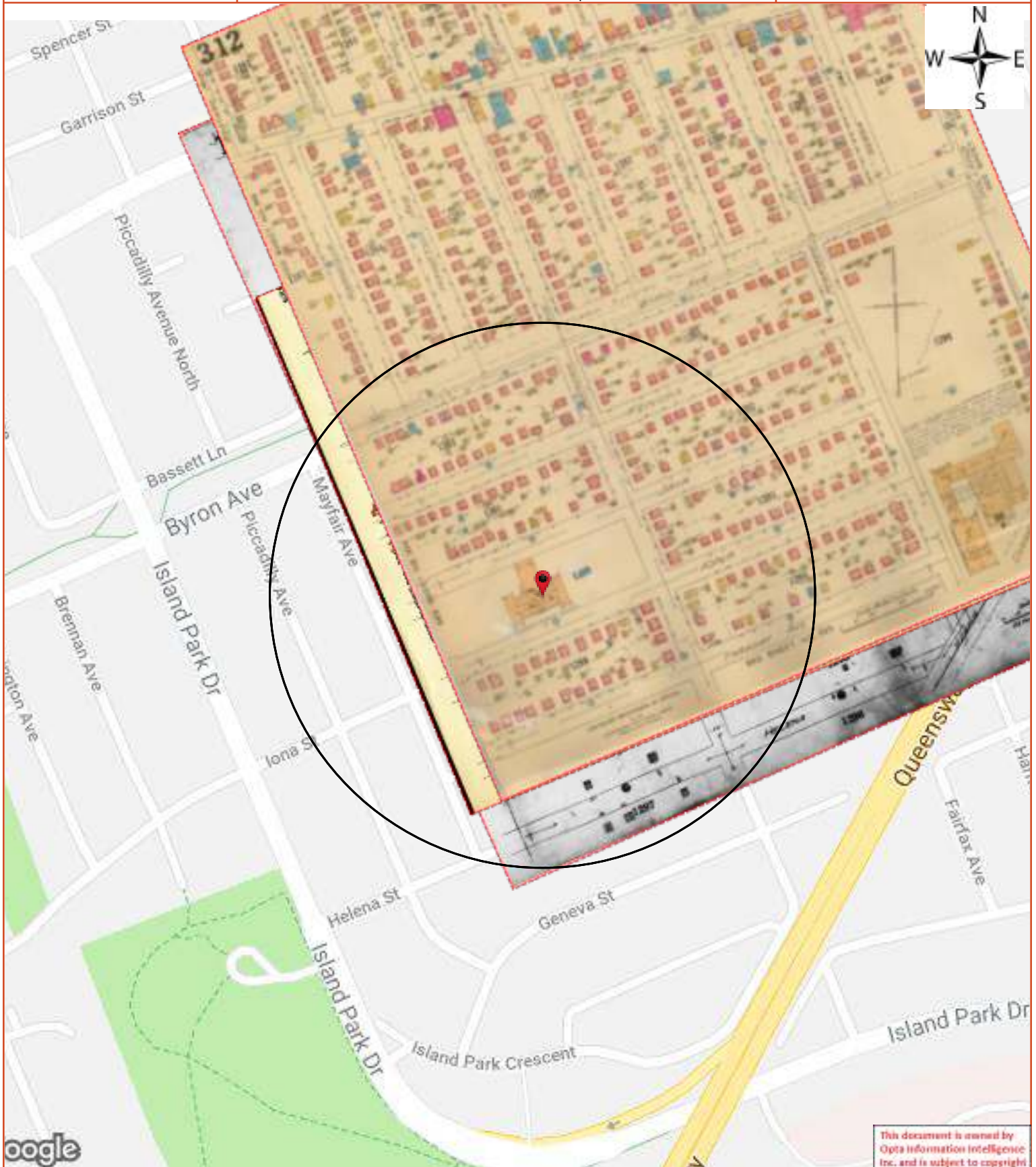
Opta Order ID:

54841

Requested by:  
Eleanor Goolab  
ERIS

Date Completed:  
11/1/2018 9:10:36 AM





**Opta Historical Environmental Services Enviroscan  
Terms and Conditions****Requested by:**

Eleanor Goolab

Date Completed: 11/01/2018 09:10:36



OPTA INFORMATION INTELLIGENCE

## **Opta Historical Environmental Services Enviroscan<sup>TM</sup> Terms and Conditions**

### **Report**

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

### **Disclaimer**

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

### **Entire Agreement**

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

### **Governing Document**

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

### **Law**

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

**Report Index**

**Requested by:**

Eleanor Goolab

Date Completed: 11/01/2018 09:10:36



OPTA INFORMATION INTELLIGENCE

**Page      Report Title**

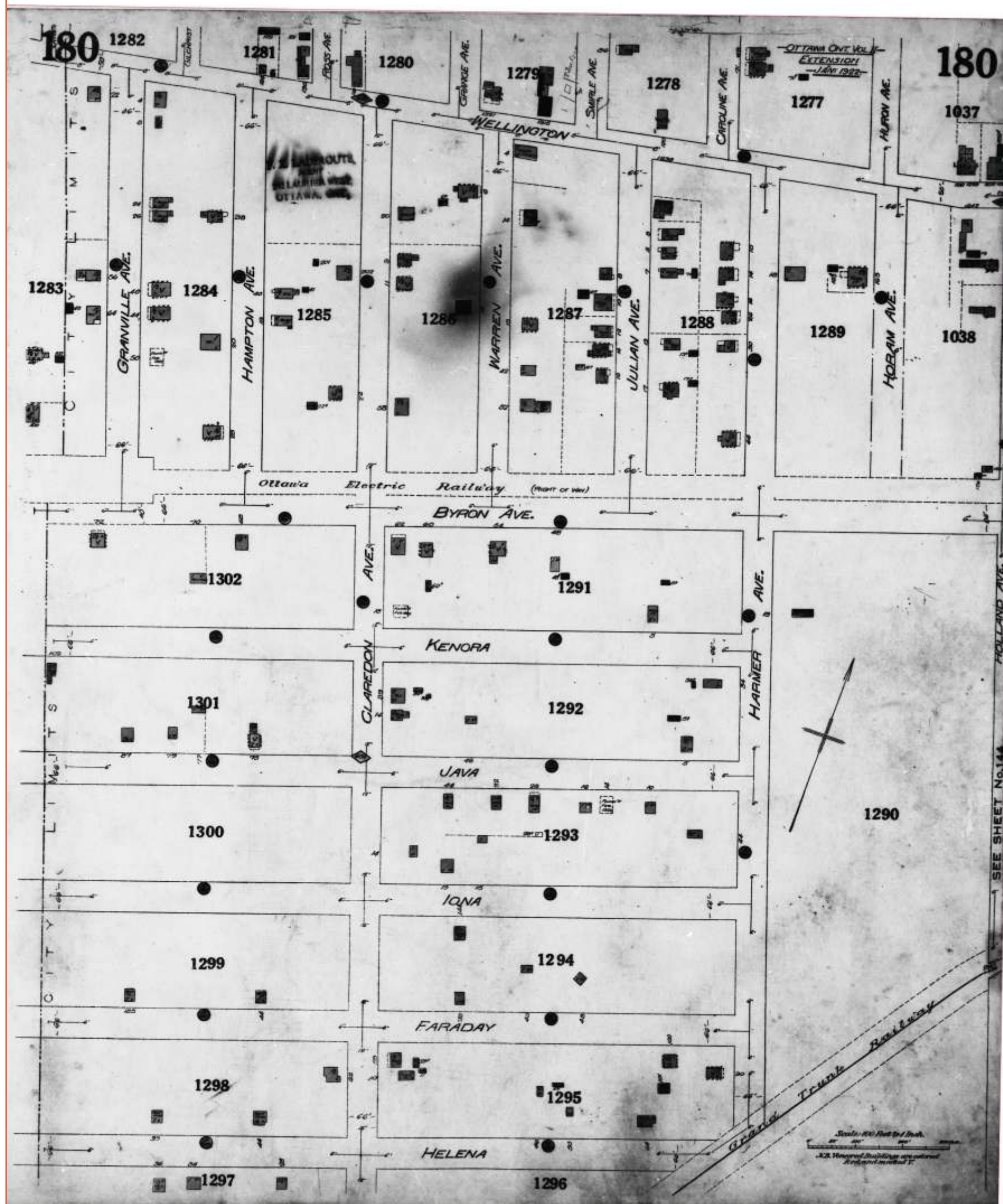
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8	(1938) Volume: Ottawa, Ontario, 1938 Firemap: 2
10	(1948) Volume: Ottawa Firemap: 312





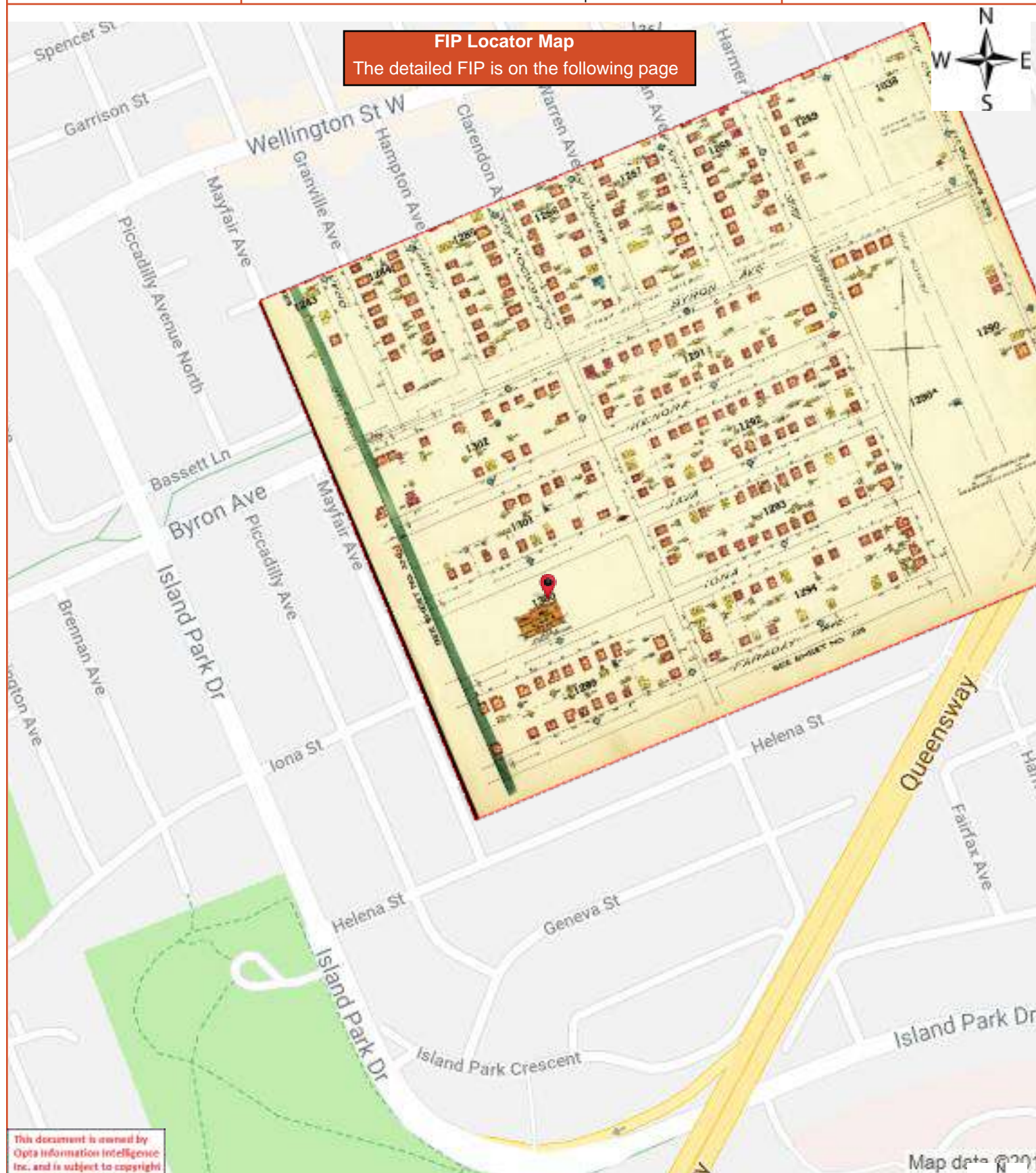




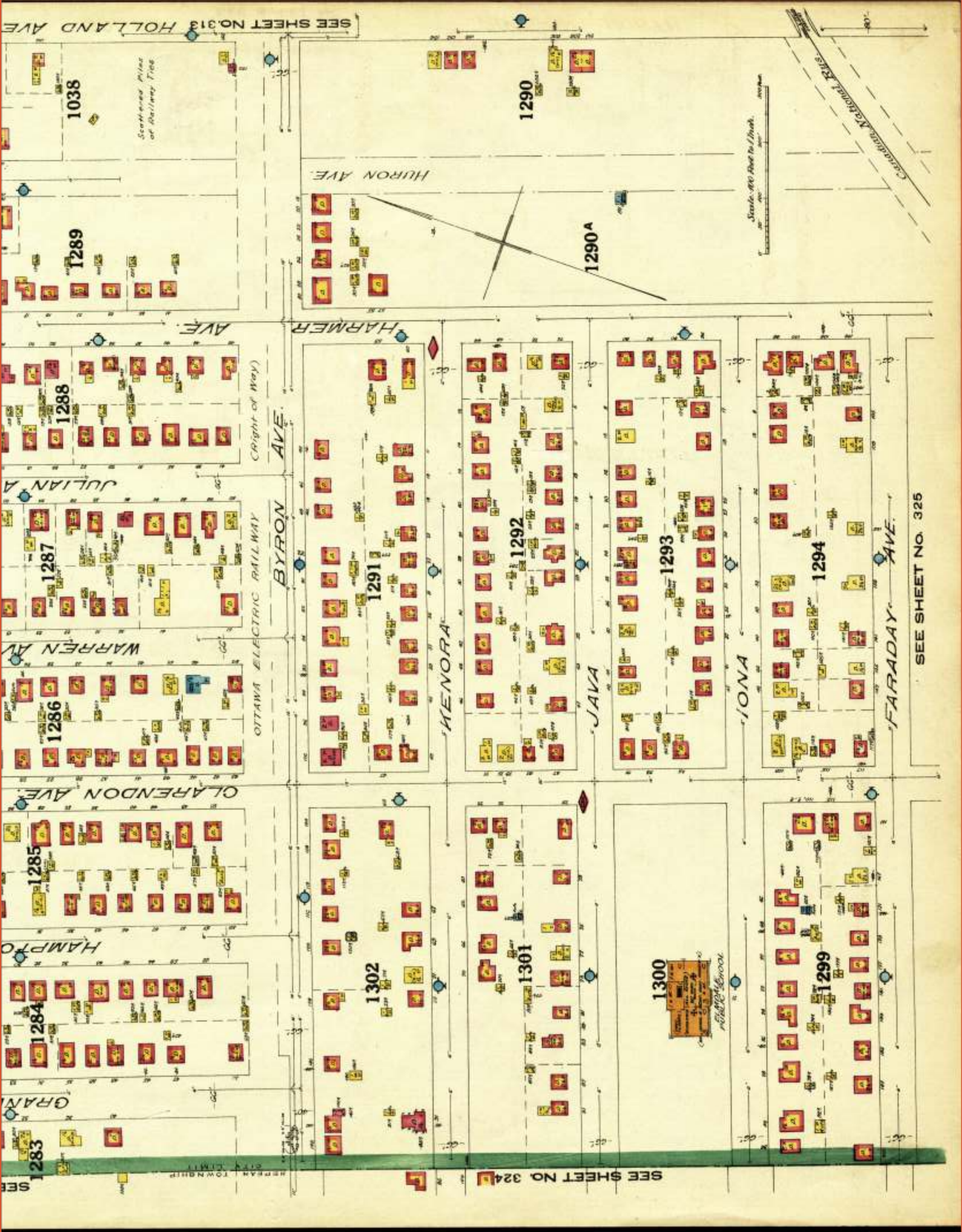




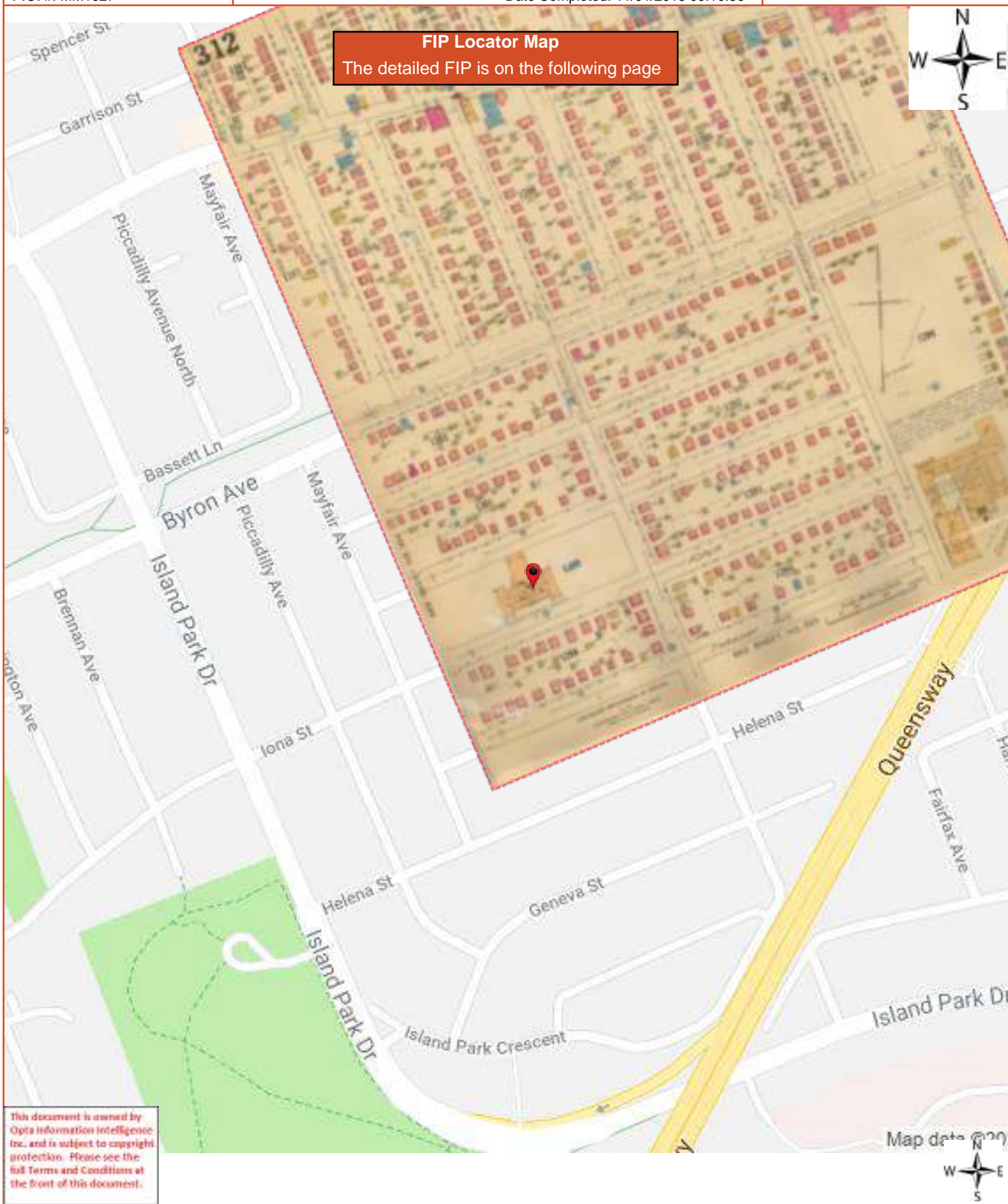
**FIP Locator Map**  
The detailed FIP is on the following page



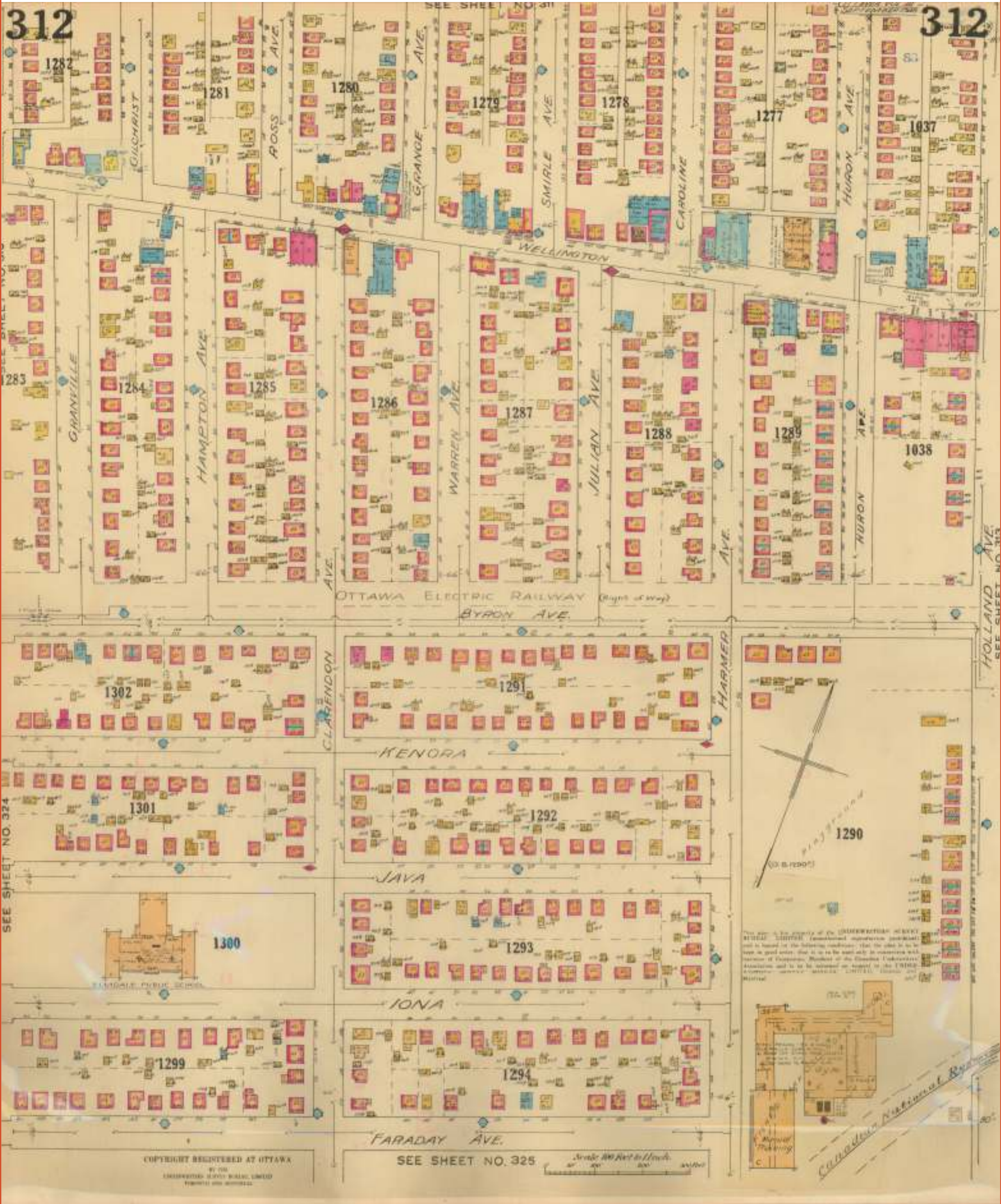














# **APPENDIX D**

## **CHAIN OF TITLE**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**

Pending

# **APPENDIX E**

## **CITY DIRECTORY SEARCH**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**

**City Directory Information Source**

Vernon's Ottawa & Area, Ontario Criss-Cross Directory

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 2011	
<b>Site Listing:</b>	-Ottawa Carleton District School Board -Canadian Mothercraft Of Ottawa Carleton

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 2006-07	
<b>Site Listing:</b>	-Ottawa Carleton District School Board -Canadian Mothercraft Of Ottawa Carleton

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 2001-02	
<b>Site Listing:</b>	-Ottawa Carleton District School Board -Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1996-97	
<b>Site Listing:</b>	-Address Not Listed

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1992	
<b>Site Listing:</b>	-Address Not Listed

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario

<b>Year: 1987</b>	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER: 20181030014</b>	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year: 1981-82</b>	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER: 20181030014</b>	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year: 1976</b>	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER: 20181030014</b>	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year: 1971</b>	



<b>Site Listing:</b>	-Elmdale Public School
----------------------	------------------------

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1966	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1961	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1956	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1950	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1946	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year:</b> 1941	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER:</b> 20181030014	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario

<b>Year: 1936</b>	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER: 20181030014</b>	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year: 1930</b>	
<b>Site Listing:</b>	-Elmdale Public School

<b>PROJECT NUMBER: 20181030014</b>	
<b>Site Address:</b>	49 Iona Street, Ottawa, Ontario
<b>Year: 1926</b>	
<b>Site Listing:</b>	-Address Not Listed

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory

# **APPENDIX F**

## **FREEDOM OF INFORMATION REQUEST**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**

Pending



# **APPENDIX G**

## **ECOLOG ERIS REPORT**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**



# DATABASE REPORT

**Project Property:** *Elmdale P.S.  
49 Iona Street  
Ottawa ON K1Y 3L8  
MM1027*

**Project No:**

**Report Type:** *RSC Report (Urban)*

**Order No:** *20181030014*

**Requested by:** *CM3 Environmental Inc.*

**Date Completed:** *October 31, 2018*

**Environmental Risk  
Information Services**  
A division of Glacier Media Inc.  
P: 1.866.517.5204  
E: [info@erisinfo.com](mailto:info@erisinfo.com)

**[www.erisinfo.com](http://www.erisinfo.com)**

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## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

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

**License for use of information in Report:** No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

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# Executive Summary

## **Property Information:**

**Project Property:** Elmdale P.S.  
49 Iona Street Ottawa ON K1Y 3L8

**Project No:** MM1027

## **Order Information:**

**Order No:** 20181030014  
**Date Requested:** October 30, 2018  
**Requested by:** CM3 Environmental Inc.  
**Report Type:** RSC Report (Urban)

## **Historical/Products:**

**Aerial Photographs** Aerials - National Collection - .tiff files  
**City Directory Search** CD - Subject Site  
**Insurance Products** Fire Insurance Maps/Inspection Reports/Site Plans  
**Land Title Search** Current Land Title Search  
**Physical Setting Report (PSR)** PSR  
**Topographic Map** ANSI Map & Ontario Base Map (OBM)  
**Topographic Map** Ontario Base Map (OBM)

## Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.30km</b>	<b>Total</b>
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
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	8	8
CA	Certificates of Approval	Y	0	2	2
CFOT	Commercial Fuel Oil Tanks	Y	0	1	1
CHEM	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
DRYCLEANERS	Dry Cleaning Facilities	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	6	6
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	1	1
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	2	2
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
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	10	0	10
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MISA PENALTY	Environmental Penalty Annual Report	Y	0	0	0



<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.30km</b>	<b>Total</b>
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
NEBW	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
OGW	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	TSSA Pipeline Incidents	Y	0	8	8
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	5	5
SPL	Ontario Spills	Y	0	8	8
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	TSSA 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	1	5	6
<b>Total:</b>			11	48	59

## Executive Summary: Site Report Summary - Project Property

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev diff (m)</b>	<b>Page Number</b>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">23</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON	-/0.0	0.00	<a href="#">23</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">24</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">24</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">25</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">25</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">25</a>
<a href="#">1</a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#">25</a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev diff (m)</b>	<b>Page Number</b>
<a href="#"><u>1</u></a>	GEN	Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#"><u>26</u></a>
<a href="#"><u>1</u></a>	GEN	Ottawa-Carleton District School Board Health & Safety	49 Iona Street Ottawa ON K1Y 3L9	-/0.0	0.00	<a href="#"><u>26</u></a>
<a href="#"><u>2</u></a>	WWIS		Ottawa ON  <b>Well ID:</b> 7170594	-/0.0	0.00	<a href="#"><u>27</u></a>

## Executive Summary: Site Report Summary - Surrounding Properties

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
<a href="#"><u>3</u></a>	BORE		ON	NE/21.4	-1.00	<a href="#"><u>31</u></a>
<a href="#"><u>4</u></a>	ECA	City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	ENE/29.0	-1.00	<a href="#"><u>32</u></a>
<a href="#"><u>4</u></a>	ECA	City of Ottawa	Ottawa ON K1N 5A1	ENE/29.0	-1.00	<a href="#"><u>32</u></a>
<a href="#"><u>4</u></a>	ECA	City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	ENE/29.0	-1.00	<a href="#"><u>32</u></a>
<a href="#"><u>4</u></a>	ECA	City of Ottawa	Ottawa ON K1N 5A1	ENE/29.0	-1.00	<a href="#"><u>32</u></a>
<a href="#"><u>5</u></a>	SCT	RAYDOCK	87 JAVA ST OTTAWA ON K1Y 3L5	WNW/34.2	0.00	<a href="#"><u>33</u></a>
<a href="#"><u>6</u></a>	EHS		Collector from Carling Ave. to Byron Ave. Ottawa ON <b>Order ID:</b> 168601	E/48.7	-1.00	<a href="#"><u>33</u></a>
<a href="#"><u>7</u></a>	PINC		111 Clarendon Avenue, Ottawa ON	E/54.4	-1.00	<a href="#"><u>33</u></a>
<a href="#"><u>8</u></a>	WWIS		ON <b>Well ID:</b> 7161465	WSW/62.5	1.00	<a href="#"><u>34</u></a>
<a href="#"><u>9</u></a>	BORE		ON	ENE/89.8	-1.00	<a href="#"><u>36</u></a>
<a href="#"><u>10</u></a>	WWIS		Ottawa ON <b>Well ID:</b> 7220993	N/94.3	0.00	<a href="#"><u>37</u></a>
<a href="#"><u>11</u></a>	WWIS		ON	WNW/111.3	1.45	<a href="#"><u>39</u></a>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			<b>Well ID: 7126601</b>			
<a href="#">12</a>	SPL		35 Java Street Ottawa ON	NE/112.8	-1.86	<a href="#">42</a>
<a href="#">13</a>	WWIS		ON <b>Well ID: 7126600</b>	SSW/130.4	0.68	<a href="#">42</a>
<a href="#">14</a>	BORE		ON	N/135.9	-1.00	<a href="#">45</a>
<a href="#">15</a>	PINC		126 Clarendon Avenue, Ottawa ON	SE/138.9	0.43	<a href="#">46</a>
<a href="#">16</a>	SPL		77 Helena St Ottawa ON	SSE/147.8	0.00	<a href="#">46</a>
<a href="#">16</a>	SPL	Enbridge Gas Distribution Inc.	77 Helena Ave. Ottawa ON	SSE/147.8	0.00	<a href="#">47</a>
<a href="#">17</a>	SPL	Enbridge Gas Distribution Inc.	87 Helena St. Ottawa ON	S/148.4	0.00	<a href="#">47</a>
<a href="#">18</a>	INC		125 Faraday Street, Ottawa ON	E/153.0	-1.00	<a href="#">47</a>
<a href="#">19</a>	SCT	Vinci SD Exports Ltd.	139 Iona St Ottawa ON K1Y 3M2	WSW/154.2	2.00	<a href="#">48</a>
<a href="#">20</a>	PINC		136 Faraday Street, Ottawa ON	ESE/157.5	0.00	<a href="#">49</a>
<a href="#">21</a>	CA	OTTAWA CITY - ISLAND PK. DR./GENEVA ST.	HELENA ST./CLARENDON AVE. OTTAWA CITY ON	SE/167.6	1.03	<a href="#">49</a>
<a href="#">22</a>	HINC		31 KENORA STREET OTTAWA ON K1Y 3K7	NNE/167.9	-2.00	<a href="#">49</a>
<a href="#">23</a>	PINC		112 Faraday Street, Ottawa ON	E/195.2	-1.00	<a href="#">50</a>



<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
<a href="#"><u>24</u></a>	BORE		ON	N/202.8	-1.00	<a href="#"><u>50</u></a>
<a href="#"><u>25</u></a>	CFOT	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	SW/204.9	2.00	<a href="#"><u>51</u></a>
<a href="#"><u>25</u></a>	EXP	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON	SW/204.9	2.00	<a href="#"><u>51</u></a>
<a href="#"><u>25</u></a>	EXP	PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	SW/204.9	2.00	<a href="#"><u>51</u></a>
<a href="#"><u>26</u></a>	SPL	ULTRAMAR	112 HELENA ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3N1	SSW/216.2	1.00	<a href="#"><u>52</u></a>
<a href="#"><u>27</u></a>	SPL	PETRO-CANADA	HOME OF MR. PARSONS, 108 FARADAY ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3M4	E/216.3	-1.00	<a href="#"><u>52</u></a>
<a href="#"><u>28</u></a>	ECA	City of Ottawa	Merivale Road between Island Park Crescent and Carling Avenue Ottawa ON K2G 6J8	SW/225.4	2.00	<a href="#"><u>53</u></a>
<a href="#"><u>28</u></a>	ECA	City of Ottawa	Merivale Road from Carling Avenue to Geneva St Ottawa ON K2G 6J8	SW/225.4	2.00	<a href="#"><u>53</u></a>
<a href="#"><u>29</u></a>	SCT	Allen Ford Design	53 Geneva St Ottawa ON K1Y 3N6	SSE/228.6	1.00	<a href="#"><u>53</u></a>
<a href="#"><u>30</u></a>	PINC		55 Geneva Street, Ottawa ON	SSE/229.2	1.00	<a href="#"><u>53</u></a>
<a href="#"><u>31</u></a>	PINC		106 Faraday Street, Ottawa ON	E/230.5	-1.00	<a href="#"><u>54</u></a>
<a href="#"><u>32</u></a>	WWIS		Ottawa ON <b>Well ID:</b> 7120507	E/233.6	-1.00	<a href="#"><u>54</u></a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Dir/Dist (m)</b>	<b>Elev Diff (m)</b>	<b>Page Number</b>
<a href="#"><u>33</u></a>	SCT	Agent Signs & Designs - Div. of Akram Ghosn Enterprises	68 Harmer Ave N Ottawa ON K1Y 0T8	NE/245.1	-1.92	<a href="#"><u>58</u></a>
<a href="#"><u>33</u></a>	SCT	Agent Signs & Designs - Div. of Agent Signs	68 Harmer Ave N Ottawa ON K1Y 0T8	NE/245.1	-1.92	<a href="#"><u>58</u></a>
<a href="#"><u>34</u></a>	PINC		43 CLARENDON AVE. , OTTAWA ON	N/250.6	-0.92	<a href="#"><u>59</u></a>
<a href="#"><u>35</u></a>	SPL	Enbridge Gas Distribution Inc.	near intersection of Harmer Ave. North and Iona St. Ottawa ON	ENE/260.7	-2.00	<a href="#"><u>59</u></a>
<a href="#"><u>36</u></a>	BORE		ON	N/268.5	-1.00	<a href="#"><u>60</u></a>
<a href="#"><u>37</u></a>	BORE		ON	E/272.4	-1.00	<a href="#"><u>60</u></a>
<a href="#"><u>38</u></a>	PINC		42 Geneva Street, Ottawa ON	SSE/277.4	1.97	<a href="#"><u>61</u></a>
<a href="#"><u>39</u></a>	CA	OTTAWA CITY	BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON	W/280.5	2.48	<a href="#"><u>61</u></a>
<a href="#"><u>40</u></a>	BORE		ON	E/282.5	-1.00	<a href="#"><u>61</u></a>
<a href="#"><u>41</u></a>	BORE		ON	E/284.5	-1.00	<a href="#"><u>62</u></a>
<a href="#"><u>42</u></a>	SPL	Enbridge Gas Distribution Inc.	32 Byron Ave Ottawa ON	NE/287.6	-3.00	<a href="#"><u>62</u></a>

## Executive Summary: Summary By Data Source

### **BORE - Borehole**

A search of the BORE database, dated 1875-Jul 2014 has found that there are 8 BORE site(s) within approximately 0.30 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	ON	21.4	<a href="#"><u>3</u></a>
	ON	89.8	<a href="#"><u>9</u></a>
	ON	135.9	<a href="#"><u>14</u></a>
	ON	202.8	<a href="#"><u>24</u></a>
	ON	268.5	<a href="#"><u>36</u></a>
	ON	272.4	<a href="#"><u>37</u></a>
	ON	282.5	<a href="#"><u>40</u></a>
	ON	284.5	<a href="#"><u>41</u></a>

### **CA - Certificates of Approval**

A search of the CA database, dated 1985-Oct 30, 2011\* has found that there are 2 CA site(s) within approximately 0.30 kilometers of

the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
OTTAWA CITY - ISLAND PK. DR./GENEVA ST.	HELENA ST./CLARENDON AVE. OTTAWA CITY ON	167.6	<a href="#"><u>21</u></a>
OTTAWA CITY	BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON	280.5	<a href="#"><u>39</u></a>

### **CFOT - Commercial Fuel Oil Tanks**

A search of the CFOT database, dated Feb 28, 2017 has found that there are 1 CFOT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	204.9	<a href="#"><u>25</u></a>

### **ECA - Environmental Compliance Approval**

A search of the ECA database, dated Oct 2011-Sep 30, 2018 has found that there are 6 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Ottawa ON K1N 5A1	29.0	<a href="#"><u>4</u></a>
City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	29.0	<a href="#"><u>4</u></a>
City of Ottawa	Ross Avenue Ottawa ON K1V 6A6	29.0	<a href="#"><u>4</u></a>
City of Ottawa	Ottawa ON K1N 5A1	29.0	<a href="#"><u>4</u></a>
City of Ottawa	Merivale Road from Carling Avenue to Geneva St Ottawa ON K2G 6J8	225.4	<a href="#"><u>28</u></a>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Merivale Road between Island Park Crescent and Carling Avenue Ottawa ON K2G 6J8	225.4	<a href="#"><u>28</u></a>

### **EHS - ERIS Historical Searches**

A search of the EHS database, dated 1999-Jul 31, 2018 has found that there are 1 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Collector from Carling Ave. to Byron Ave. Ottawa ON	48.7	<a href="#"><u>6</u></a>
<i>Order ID: 168601</i>			

### **EXP - List of TSSA Expired Facilities**

A search of the EXP database, dated Feb 28, 2017 has found that there are 2 EXP site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON	204.9	<a href="#"><u>25</u></a>
PAULINE SCOTT	505 ISLAND PARK DR OTTAWA ON K1Y 0B4	204.9	<a href="#"><u>25</u></a>

### **GEN - Ontario Regulation 347 Waste Generators Summary**

A search of the GEN database, dated 1986-June 30, 2018 has found that there are 10 GEN site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Ottawa-Carleton District School Board Health & Safety	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON K1Y 3L9	0.0	<a href="#"><u>1</u></a>
Ottawa-Carleton District School Board	49 Iona Street Ottawa ON	0.0	<a href="#"><u>1</u></a>

## **HINC - TSSA Historic Incidents**

A search of the HINC database, dated 2006-June 2009\* has found that there are 1 HINC site(s) within approximately 0.30 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	31 KENORA STREET OTTAWA ON K1Y 3K7	167.9	<a href="#"><u>22</u></a>



## **INC - TSSA Incidents**

A search of the INC database, dated Feb 28, 2017 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	125 Faraday Street, Ottawa ON	153.0	<a href="#"><u>18</u></a>

## **PINC - TSSA Pipeline Incidents**

A search of the PINC database, dated Feb 28, 2017 has found that there are 8 PINC site(s) within approximately 0.30 kilometers of the project property.

<b><u>Site</u></b>	<b><u>Address</u></b>	<b><u>Distance (m)</u></b>	<b><u>Map Key</u></b>
	111 Clarendon Avenue, Ottawa ON	54.4	<a href="#"><u>7</u></a>
	126 Clarendon Avenue, Ottawa ON	138.9	<a href="#"><u>15</u></a>
	136 Faraday Street, Ottawa ON	157.5	<a href="#"><u>20</u></a>
	112 Faraday Street, Ottawa ON	195.2	<a href="#"><u>23</u></a>
	55 Geneva Street, Ottawa ON	229.2	<a href="#"><u>30</u></a>
	106 Faraday Street, Ottawa ON	230.5	<a href="#"><u>31</u></a>
	43 CLARENDON AVE. , OTTAWA ON	250.6	<a href="#"><u>34</u></a>
	42 Geneva Street, Ottawa ON	277.4	<a href="#"><u>38</u></a>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
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### **SCT - Scott's Manufacturing Directory**

A search of the SCT database, dated 1992-Mar 2011\* has found that there are 5 SCT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
RAYDOCK	87 JAVA ST OTTAWA ON K1Y 3L5	34.2	<a href="#"><u>5</u></a>
Vinci SD Exports Ltd.	139 Iona St Ottawa ON K1Y 3M2	154.2	<a href="#"><u>19</u></a>
Allen Ford Design	53 Geneva St Ottawa ON K1Y 3N6	228.6	<a href="#"><u>29</u></a>
Agent Signs & Designs - Div. of Agent Signs	68 Harmer Ave N Ottawa ON K1Y 0T8	245.1	<a href="#"><u>33</u></a>
Agent Signs & Designs - Div. of Akram Ghosn Enterprises	68 Harmer Ave N Ottawa ON K1Y 0T8	245.1	<a href="#"><u>33</u></a>

### **SPL - Ontario Spills**

A search of the SPL database, dated 1988-Jul 2018 has found that there are 8 SPL site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	35 Java Street Ottawa ON	112.8	<a href="#"><u>12</u></a>
Enbridge Gas Distribution Inc.	77 Helena Ave. Ottawa ON	147.8	<a href="#"><u>16</u></a>
	77 Helena St Ottawa ON	147.8	<a href="#"><u>16</u></a>

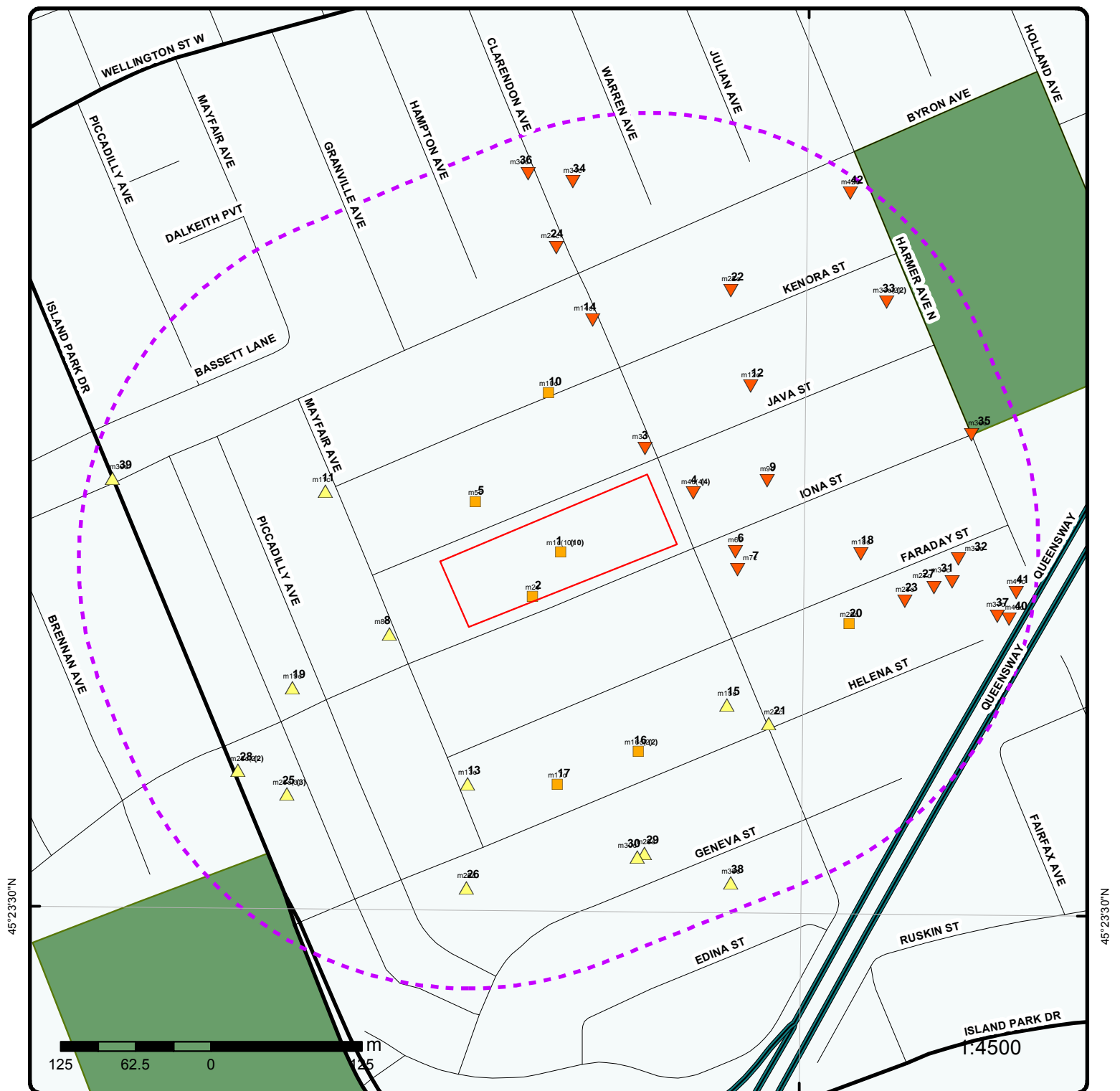
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Distribution Inc.	87 Helena St. Ottawa ON	148.4	<a href="#"><u>17</u></a>
ULTRAMAR	112 HELENA ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3N1	216.2	<a href="#"><u>26</u></a>
PETRO-CANADA	HOME OF MR. PARSONS, 108 FARADAY ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3M4	216.3	<a href="#"><u>27</u></a>
Enbridge Gas Distribution Inc.	near intersection of Harmer Ave. North and Iona St. Ottawa ON	260.7	<a href="#"><u>35</u></a>
Enbridge Gas Distribution Inc.	32 Byron Ave Ottawa ON	287.6	<a href="#"><u>42</u></a>

### **WWIS - Water Well Information System**

A search of the WWIS database, dated Dec 31, 2017 has found that there are 6 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Ottawa ON <i>Well ID: 7170594</i>	0.0	<a href="#"><u>2</u></a>
	ON <i>Well ID: 7161465</i>	62.5	<a href="#"><u>8</u></a>
	Ottawa ON <i>Well ID: 7220993</i>	94.3	<a href="#"><u>10</u></a>
	ON <i>Well ID: 7126601</i>	111.3	<a href="#"><u>11</u></a>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON <i>Well ID: 7126600</i>	130.4	<a href="#"><u>13</u></a>
	Ottawa ON <i>Well ID: 7120507</i>	233.6	<a href="#"><u>32</u></a>



## Map : 0.3 Kilometer Radius

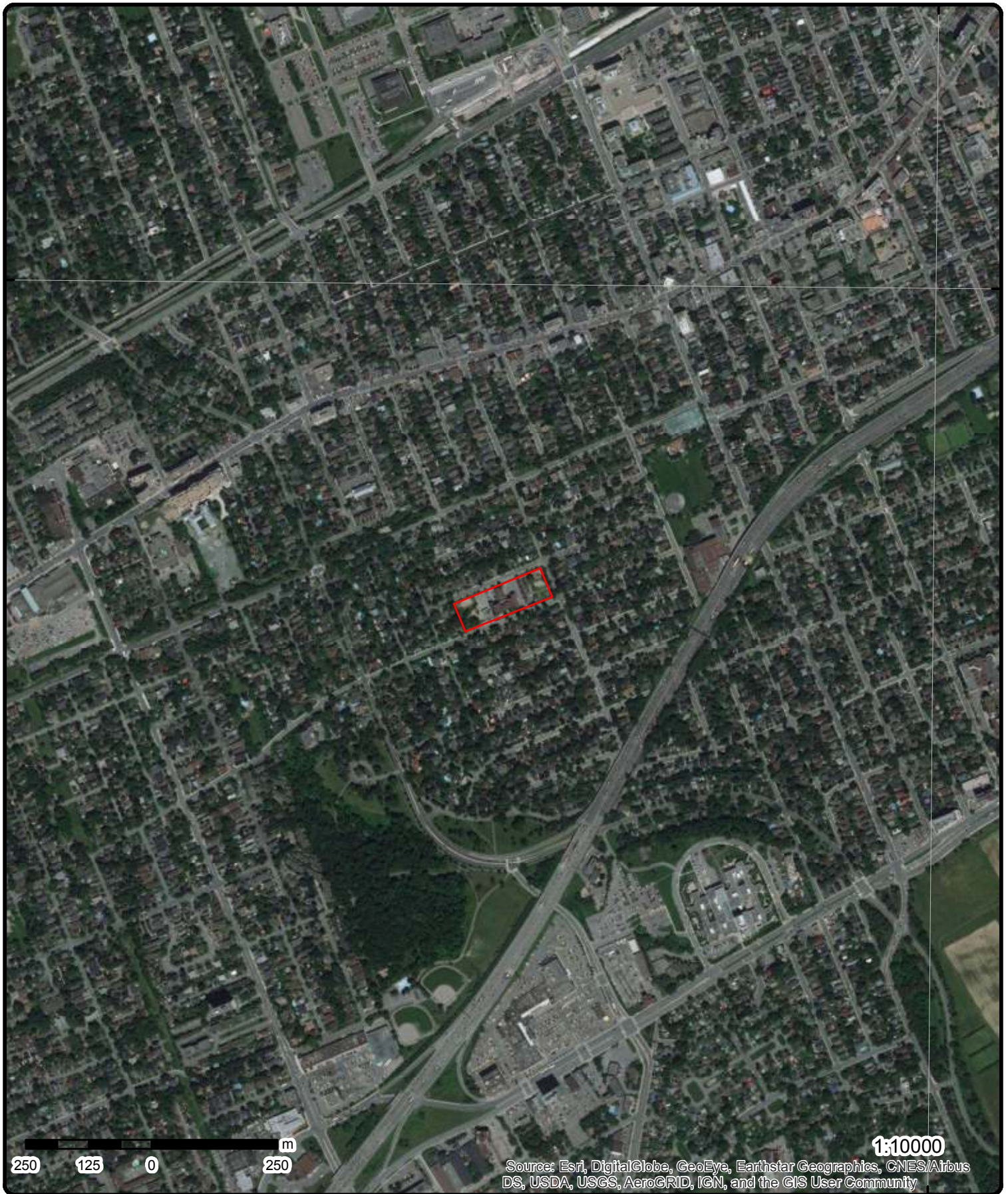
Order No: 20181030014

Address: 49 Iona Street, Ottawa, ON, K1Y 3L8



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





**Aerial (2017)**

**Address: 49 Iona Street, Ottawa, ON, K1Y 3L8**

Source: ESRI World Imagery

Order No: 20181030014



© ERIS Information Limited Partnership





1:24000 Sri

Order No: 20181030014

**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES

© ERIS Information Limited Partnership



# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">1</a>	1 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
<div> <div> Generator No.: ON4323888  Status:  Approval Years: 2015  Contam. Facility: No  MHSW Facility: No  SIC Code: 611110  SIC Description: ELEMENTARY AND SECONDARY SCHOOLS </div> <div> PO Box No.:  Country: Canada  Choice of Contact: CO_OFFICIAL  Co Admin: Greg Benson  Phone No. Admin: 613-596-8211 Ext.8549 </div> </div>					
<b>--Details--</b>					
Waste Code:		242			
Waste Description:		HALOGENATED PESTICIDES			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
<a href="#">1</a>	2 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON	GEN
<div> <div> Generator No.: ON4323888  Status:  Approval Years: 2013  Contam. Facility:  MHSW Facility:  SIC Code: 611110  SIC Description: ELEMENTARY AND SECONDARY SCHOOLS </div> <div> PO Box No.:  Country:  Choice of Contact:  Co Admin:  Phone No. Admin: </div> </div>					
<b>--Details--</b>					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		242			
Waste Description:		HALOGENATED PESTICIDES			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
<hr/>					
<a href="#">1</a>	3 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
Generator No.:	ON4323888			PO Box No.:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	611110				
SIC Description:		Elementary and Secondary Schools			
--Details--					
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
<hr/>					
<a href="#">1</a>	4 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
Generator No.:	ON4323888			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2014			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Greg Benson
MHSW Facility:	No			Phone No. Admin:	613-596-8211 Ext.8549
SIC Code:	611110				
SIC Description:		ELEMENTARY AND SECONDARY SCHOOLS			
--Details--					
Waste Code:		263			
Waste Description:		ORGANIC LABORATORY CHEMICALS			
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		242			
Waste Description:		HALOGENATED PESTICIDES			
Waste Code:		148			
Waste Description:		INORGANIC LABORATORY CHEMICALS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">1</a>	5 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board Elmdale Public School 49 Iona Street Ottawa ON K1Y 3L9	GEN
<div> <div> Generator No.: ON5745421  Status:  Approval Years: 02,03,04  Contam. Facility:  MHSW Facility:  SIC Code:  SIC Description: </div> <div> PO Box No.:  Country:  Choice of Contact:  Co Admin:  Phone No. Admin: </div> </div>					
--Details-- Waste Code: 243 Waste Description: PCB'S					
<a href="#">1</a>	6 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
<div> <div> Generator No.: ON4323888  Status:  Approval Years: 2012  Contam. Facility:  MHSW Facility:  SIC Code: 611110  SIC Description: Elementary and Secondary Schools </div> <div> PO Box No.:  Country:  Choice of Contact:  Co Admin:  Phone No. Admin: </div> </div>					
--Details-- Waste Code: 145 Waste Description: PAINT/PIGMENT/COATING RESIDUES  Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS					
<a href="#">1</a>	7 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
<div> <div> Generator No.: ON4323888  Status:  Approval Years: 2010  Contam. Facility:  MHSW Facility:  SIC Code: 611110  SIC Description: Elementary and Secondary Schools </div> <div> PO Box No.:  Country:  Choice of Contact:  Co Admin:  Phone No. Admin: </div> </div>					
--Details-- Waste Code: 145 Waste Description: PAINT/PIGMENT/COATING RESIDUES  Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS					
<a href="#">1</a>	8 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Ottawa ON K1Y 3L9					
Generator No.:	ON4323888			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Greg Benson
MHSW Facility:	No			Phone No. Admin:	613-596-8211 Ext.8549
SIC Code:	611110				
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS				
<hr/>					
--Details--					
Waste Code:	145				
Waste Description:	PAINT/PIGMENT/COATING RESIDUES				
Waste Code:	146				
Waste Description:	OTHER SPECIFIED INORGANICS				
Waste Code:	263				
Waste Description:	ORGANIC LABORATORY CHEMICALS				
Waste Code:	148				
Waste Description:	INORGANIC LABORATORY CHEMICALS				
Waste Code:	331				
Waste Description:	WASTE COMPRESSED GASES				
Waste Code:	242				
Waste Description:	HALOGENATED PESTICIDES				
<hr/>					
<u>1</u>	9 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board 49 Iona Street Ottawa ON K1Y 3L9	GEN
Generator No.:	ON4323888			PO Box No.:	
Status:				Country:	
Approval Years:	2009			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:	611110				
SIC Description:	Elementary and Secondary Schools				
<hr/>					
--Details--					
Waste Code:	145				
Waste Description:	PAINT/PIGMENT/COATING RESIDUES				
Waste Code:	146				
Waste Description:	OTHER SPECIFIED INORGANICS				
<hr/>					
<u>1</u>	10 of 10	-/0.0	69.9 / 0.00	Ottawa-Carleton District School Board Health & Safety 49 Iona Street Ottawa ON K1Y 3L9	GEN
Generator No.:	ON4323888			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jun 2018			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>--Details--</b>					
<b>Waste Code:</b>		145 I			
<b>Waste Description:</b>		Wastes from the use of pigments, coatings and paints			
<b>Waste Code:</b>		331 I			
<b>Waste Description:</b>		Waste compressed gases including cylinders			
<b>Waste Code:</b>		263 I			
<b>Waste Description:</b>		Misc. waste organic chemicals			
<b>Waste Code:</b>		242 T			
<b>Waste Description:</b>		Halogenated pesticides and herbicides			
<b>Waste Code:</b>		148 C			
<b>Waste Description:</b>		Misc. wastes and inorganic chemicals			
<b>Waste Code:</b>		146 T			
<b>Waste Description:</b>		Other specified inorganic sludges, slurries or solids			

<a href="#">2</a>	1 of 1	-/0.0	69.9 / 0.00	Ottawa ON	WWIS
<b>Well ID:</b>	7170594			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>	Test Hole			<b>Date Received:</b>	10/28/2011
<b>Sec. Water Use:</b>				<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Observation Wells			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	6964
<b>Casing Material:</b>				<b>Form Version:</b>	7
<b>Audit No:</b>	Z127832			<b>Owner:</b>	
<b>Tag:</b>	A094417			<b>Street Name:</b>	49 LONA ST
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	OTTAWA CITY
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	
<b>Well Depth:</b>				<b>Concession:</b>	
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1003590672			<b>Elevation:</b>	70.41
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442376
<b>Code OB Desc:</b>				<b>Org CS:</b>	UTM83
<b>Open Hole:</b>				<b>North83:</b>	5026986
<b>Cluster Kind:</b>				<b>UTMRC:</b>	3
<b>Date Completed:</b>	14-JUL-11			<b>UTMRC Desc:</b>	margin of error : 10 - 30 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1004035737			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:					
Other Materials:					
Formation Top Depth:		3.65			
Formation End Depth:		4.3			
Formation End Depth UOM:		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1004035738			
Layer:		6			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			
Other Materials:		SAND			
Mat3:		11			
Other Materials:		GRAVEL			
Formation Top Depth:		4.3			
Formation End Depth:		4.9			
Formation End Depth UOM:		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1004035736			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		84			
Other Materials:		SILTY			
Mat3:					
Other Materials:					
Formation Top Depth:		.9			
Formation End Depth:		3.65			
Formation End Depth UOM:		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1004035735			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Other Materials:		SAND			
Mat3:		11			
Other Materials:		GRAVEL			
Formation Top Depth:		.3			
Formation End Depth:		.9			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004035734			
Layer:		2			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Other Materials:		GRAVEL			
Mat3:					
Other Materials:					
Formation Top Depth:		.05			
Formation End Depth:		.3			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004035733			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.05			
Formation End Depth UOM:		m			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004035739			
Layer:		7			
Color:					
General Color:					
Mat1:		13			
Most Common Material:		BOULDERS			
Mat2:		12			
Other Materials:		STONES			
Mat3:					
Other Materials:					
Formation Top Depth:		4.9			
Formation End Depth:		5.7			
Formation End Depth UOM:		m			
 <u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004035746			



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Layer:</b>		1			
<b>Plug From:</b>					
<b>Plug To:</b>					
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1004035747			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		1.7			
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1004035749			
<b>Layer:</b>		3			
<b>Plug From:</b>		2.35			
<b>Plug To:</b>		5.7			
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1004035748			
<b>Layer:</b>		2			
<b>Plug From:</b>		1.7			
<b>Plug To:</b>		2.35			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1004035745			
<b>Method Construction Code:</b>		E			
<b>Method Construction:</b>		Auger			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1004035732			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1004035742			
<b>Layer:</b>		1			
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>		0			
<b>Depth To:</b>		2.65			
<b>Casing Diameter:</b>		5.2			
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Screen ID:		1004035743			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.65			
Screen End Depth:		5.7			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6			
 <u>Water Details</u>					
Water ID:		1004035741			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		2.29			
Water Found Depth UOM:		m			
 <u>Hole Diameter</u>					
Hole ID:		1004035740			
Diameter:		22			
Depth From:		0			
Depth To:		5.7			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
<u>3</u>	1 of 1	NE/21.4	68.9 / -1.00	ON	BORE
Borehole ID:	808532			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	
Drill Method:	Boring			UTM Zone:	18
Easting:	442469.01			Northing:	5027108.39
Location Accuracy:				Orig. Ground Elev m:	68.7
Elev. Reliability Note:				DEM Ground Elev m:	68.3
Total Depth m:	15.4			Primary Name:	BH W22
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	04-DEC-1972			Static Water Level:	1.2
Primary Water Use:				Sec. Water Use:	
 <u>--Details--</u>					
Stratum ID:	218596746			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Asphalt
Stratum ID:	218596747			Top Depth(m):	0.1
Bottom Depth(m):	0.5			Stratum Desc:	Brown Fill-Misc Sand With: Gr W Cob
Stratum ID:	218596748			Top Depth(m):	0.5
Bottom Depth(m):	3.0			Stratum Desc:	Grey-Brown Very Stiff Weathered Crust Silty Clay
Stratum ID:	218596749			Top Depth(m):	3.0
Bottom Depth(m):	7.4			Stratum Desc:	Grey Stiff Silty Clay
Stratum ID:	218596750			Top Depth(m):	7.4
Bottom Depth(m):	9.2			Stratum Desc:	Grey Compact to Dense Sand - Gravel With: Si W Blds
Stratum ID:	218596751			Top Depth(m):	9.2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bottom Depth(m):	15.4			Stratum Desc:	Grey Limestone
<a href="#">4</a>	1 of 4	ENE/29.0	68.9 / -1.00	City of Ottawa Ross Avenue Ottawa ON K1V 6A6	ECA
Approval No:	6598-59YJCY			SWP Area Name:	Rideau Valley
Approval Date:	2002-05-14			MOE District:	Ottawa
Status:	Approved			City:	Ottawa
Record Type:	ECA			Longitude:	-75.7345
Link Source:	IDS			Latitude:	45.3948
Approval Type:		ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS			
Project Type:		MUNICIPAL AND PRIVATE SEWAGE WORKS			
Address:		Ross Avenue			
Full Address:					
Full PDF Link:		<a href="https://www.accessenvironment.ene.gov.on.ca/instruments/9334-59YHLT-14.pdf">https://www.accessenvironment.ene.gov.on.ca/instruments/9334-59YHLT-14.pdf</a>			
<a href="#">4</a>	2 of 4	ENE/29.0	68.9 / -1.00	City of Ottawa  Ottawa ON K1N 5A1	ECA
Approval No:	7541-4X8S5V			SWP Area Name:	Rideau Valley
Approval Date:	2001-05-31			MOE District:	Ottawa
Status:	Approved			City:	
Record Type:	ECA			Longitude:	-75.7345
Link Source:	IDS			Latitude:	45.394800000000004
Approval Type:		ECA-Municipal and Private Water Works			
Project Type:		Municipal and Private Water Works			
Address:					
Full Address:					
Full PDF Link:					
<a href="#">4</a>	3 of 4	ENE/29.0	68.9 / -1.00	City of Ottawa Ross Avenue Ottawa ON K1V 6A6	ECA
Approval No:	9764-59YJ8C			SWP Area Name:	Rideau Valley
Approval Date:	2002-05-09			MOE District:	Ottawa
Status:	Approved			City:	
Record Type:	ECA			Longitude:	-75.7345
Link Source:	IDS			Latitude:	45.394800000000004
Approval Type:		ECA-Municipal and Private Water Works			
Project Type:		Municipal and Private Water Works			
Address:		Ross Avenue			
Full Address:					
Full PDF Link:					
<a href="#">4</a>	4 of 4	ENE/29.0	68.9 / -1.00	City of Ottawa  Ottawa ON K1N 5A1	ECA
Approval No:	8527-4X8SK6			SWP Area Name:	Rideau Valley
Approval Date:	2001-05-31			MOE District:	Ottawa
Status:	Approved			City:	Ottawa
Record Type:	ECA			Longitude:	-75.7345
Link Source:	IDS			Latitude:	45.3948
Approval Type:		ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS			
Project Type:		MUNICIPAL AND PRIVATE SEWAGE WORKS			
Address:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Full Address:</b> <b>Full PDF Link:</b> <a href="https://www.accessenvironment.ene.gov.on.ca/instruments/2245-4WYK28-14.pdf">https://www.accessenvironment.ene.gov.on.ca/instruments/2245-4WYK28-14.pdf</a>					
<a href="#">5</a>	1 of 1	WNW/34.2	69.9 / 0.00	RAYDOCK 87 JAVA ST OTTAWA ON K1Y 3L5	SCT
<b>Established:</b>		1981			
<b>Plant Size (ft²):</b>		4500			
<b>Employment:</b>		8			
<b>--Details--</b>					
<b>Description:</b>		PREFABRICATED METAL BUILDINGS & COMPONENTS			
<b>SIC/NAICS Code:</b>		3448			
<b>Description:</b>		DURABLE GOODS, N.E.C.			
<b>SIC/NAICS Code:</b>		5099			
<a href="#">6</a>	1 of 1	E/48.7	68.9 / -1.00	Collector from Carling Ave. to Byron Ave. Ottawa ON	EHS
<b>Order ID:</b>		168601	<b>Date Received:</b>		10/7/2009
<b>Order No:</b>		20091007012	<b>Lot/Building Size:</b>		
<b>Customer ID:</b>		50347	<b>Municipality:</b>		
<b>Company ID:</b>		56	<b>Client Prov/State:</b>		ON
<b>Status:</b>		C	<b>Search Radius (km):</b>		0.25
<b>Report Code:</b>		4CAN	<b>Large Radius:</b>		0.25
<b>Report Type:</b>		Custom Report	<b>X:</b>		-75.734048
<b>Report Date:</b>		10/8/2009	<b>Y:</b>		45.394368
<b>Report Requested by:</b>		Jacques Whitford - Stantec			
<b>Nearest Intersection:</b>		Merivale and Carling on south end and Harmer and Byron on north end.			
<b>Previous Site Name:</b>					
<b>Additional Info Ordered:</b>					
<a href="#">7</a>	1 of 1	E/54.4	68.9 / -1.00	111 Clarendon Avenue, Ottawa ON	PINC
<b>Incident ID:</b>		2676242	<b>Health Impact:</b>		No
<b>Incident No:</b>		519854	<b>Environment Impact:</b>		No
<b>Type:</b>		FS-Pipeline Incident	<b>Property Damage:</b>		Yes
<b>Status Code:</b>		Pipeline Damage Reason Est	<b>Service Interrupt:</b>		Yes
<b>Fuel Occurrence Tp:</b>		Pipeline Strike	<b>Enforce Policy:</b>		Yes
<b>Fuel Type:</b>		Natural Gas	<b>Public Relation:</b>		No
<b>Tank Status:</b>		RC Established	<b>Pipeline System:</b>		
<b>Task No:</b>		3203443	<b>Depth:</b>		35
<b>Spills Action Centre:</b>			<b>Pipe Material:</b>		Plastic
<b>Method Details:</b>		E-mail	<b>PSIG:</b>		53
<b>Fuel Category:</b>		Natural Gas	<b>Attribute Category:</b>		FS-Perform P-line Inc Invest
<b>Date of Occurrence:</b>		10/22/2010 0:00	<b>Regualtor Location:</b>		Outside
<b>Occurrence Start Date:</b>		2011/07/06			
<b>Operation Type:</b>		Construction Site (pipeline strike)			
<b>Pipeline Type:</b>		Service / Riser Distribution Pipeline			
<b>Regulator Type:</b>		Service Regulator (up to 60 psi intake)			
<b>Summary:</b>		111 Clarendon Avenue, Ottawa - Pipeline Hit			
<b>Reported By:</b>		Jeff Stiles - Enbridge			
<b>Affiliation:</b>		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
<b>Occurrence Desc:</b>		failed to read locate			
<b>Damage Reason:</b>		Excavation practices not sufficient			
<b>Notes:</b>		excavate outside located area			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">8</a>	1 of 1	WSW/62.5	70.9 / 1.00	ON	WWIS
<div> <div> <b>Well ID:</b> 7161465  <b>Construction Date:</b>  <b>Primary Water Use:</b>  <b>Sec. Water Use:</b>  <b>Final Well Status:</b>  <b>Water Type:</b>  <b>Casing Material:</b>  <b>Audit No:</b> 239771  <b>Tag:</b>  <b>Construction Method:</b>  <b>Elevation (m):</b>  <b>Elevation Reliability:</b>  <b>Depth to Bedrock:</b>  <b>Well Depth:</b>  <b>Overburden/Bedrock:</b>  <b>Pump Rate:</b>  <b>Static Water Level:</b>  <b>Flowing (Y/N):</b>  <b>Flow Rate:</b>  <b>Clear/Cloudy:</b> </div> <div> <b>Data Entry Status:</b>  <b>Data Src:</b>  <b>Date Received:</b> 7/30/2009  <b>Selected Flag:</b> Yes  <b>Abandonment Rec:</b> Yes  <b>Contractor:</b> 6838  <b>Form Version:</b> 2  <b>Owner:</b>  <b>Street Name:</b>  <b>County:</b> OTTAWA-CARLETON  <b>Municipality:</b> OTTAWA CITY  <b>Site Info:</b>  <b>Lot:</b>  <b>Concession:</b>  <b>Concession Name:</b>  <b>Easting NAD83:</b>  <b>Northing NAD83:</b>  <b>Zone:</b>  <b>UTM Reliability:</b> </div> </div>					
<b><u>Bore Hole Information</u></b>					
<div> <div> <b>Bore Hole ID:</b> 1003493893  <b>DP2BR:</b>  <b>Spatial Status:</b>  <b>Code OB:</b>  <b>Code OB Desc:</b>  <b>Open Hole:</b>  <b>Cluster Kind:</b>  <b>Date Completed:</b> 15-JUL-09  <b>Remarks:</b>  <b>Elevrc Desc:</b>  <b>Location Source Date:</b>  <b>Improvement Location Source:</b>  <b>Improvement Location Method:</b>  <b>Source Revision Comment:</b>  <b>Supplier Comment:</b> </div> <div> <b>Elevation:</b> 73.75  <b>Elevrc:</b>  <b>Zone:</b> 18  <b>East83:</b> 442257  <b>Org CS:</b> UTM83  <b>North83:</b> 5026955  <b>UTMRC:</b> 3  <b>UTMRC Desc:</b> margin of error : 10 - 30 m  <b>Location Method:</b> wwr </div> </div>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<div> <div> <b>Formation ID:</b> 1003496215  <b>Layer:</b> 3  <b>Color:</b> 6  <b>General Color:</b> BROWN  <b>Mat1:</b> 28  <b>Most Common Material:</b> SAND  <b>Mat2:</b> 06  <b>Other Materials:</b> SILT  <b>Mat3:</b>  <b>Other Materials:</b>  <b>Formation Top Depth:</b> 2.3  <b>Formation End Depth:</b> 3.05  <b>Formation End Depth UOM:</b> m </div> </div>					
<b><u>Overburden and Bedrock</u></b>					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1003496214			
<b>Layer:</b>		2			
<b>Color:</b>		6			
<b>General Color:</b>		BROWN			
<b>Mat1:</b>		01			
<b>Most Common Material:</b>		FILL			
<b>Mat2:</b>		11			
<b>Other Materials:</b>		GRAVEL			
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		.1			
<b>Formation End Depth:</b>		2.3			
<b>Formation End Depth UOM:</b>		m			
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>		1003496213			
<b>Layer:</b>		1			
<b>Color:</b>		8			
<b>General Color:</b>		BLACK			
<b>Mat1:</b>		27			
<b>Most Common Material:</b>		OTHER			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		.1			
<b>Formation End Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>		1003496217			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		.1			
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment</u></b>					
<b><u>Sealing Record</u></b>					
<b>Plug ID:</b>		1003496218			
<b>Layer:</b>		2			
<b>Plug From:</b>		.1			
<b>Plug To:</b>		3.05			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well</u></b>					
<b><u>Use</u></b>					
<b>Method Construction ID:</b>		1003496222			
<b>Method Construction Code:</b>		6			
<b>Method Construction:</b>		Boring			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003496212			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing No: Comment: Alt Name:		0			
<b><u>Construction Record - Casing</u></b>					
Casing ID:		1003496220			
Layer:					
Material:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<b><u>Construction Record - Screen</u></b>					
Screen ID:		1003496221			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:					
<b><u>Water Details</u></b>					
Water ID:		1003496219			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		2.37			
Water Found Depth UOM:		m			
<b><u>Hole Diameter</u></b>					
Hole ID:		1003496216			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<b><u>9</u></b>	<b>1 of 1</b>	<b>ENE/89.8</b>	<b>68.9 / -1.00</b>	<b>ON</b>	<b>BORE</b>
Borehole ID:	613034			Type:	Borehole
Use:				Status:	
Drill Method:				UTM Zone:	18
Easting:	442571			Northing:	5027082
Location Accuracy:				Orig. Ground Elev m:	73.6
Elev. Reliability Note:				DEM Ground Elev m:	68
Total Depth m:	5.3			Primary Name:	
Township:				Concession:	
Lot:				Municipality:	
Completion Date:	OCT-1970			Static Water Level:	-999.9
Primary Water Use:				Sec. Water Use:	



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>--Details--</b>					
<b>Stratum ID:</b>	218393432			<b>Top Depth(m):</b>	0.0
<b>Bottom Depth(m):</b>	0.5			<b>Stratum Desc:</b>	ARTIFICIAL. BLACK,COMPACT.
<b>Stratum ID:</b>	218393433			<b>Top Depth(m):</b>	0.5
<b>Bottom Depth(m):</b>	0.9			<b>Stratum Desc:</b>	SAND. LIGHT,BROWN.
<b>Stratum ID:</b>	218393434			<b>Top Depth(m):</b>	0.9
<b>Bottom Depth(m):</b>	5.3			<b>Stratum Desc:</b>	BEDROCK. GREY,SOUND. 00000011. BEDROCK. 0801400028065001551005 005 00050 011

<b>10</b>	<b>1 of 1</b>	<b>N/94.3</b>	<b>69.9 / 0.00</b>	<b>Ottawa ON</b>	<b>WWIS</b>
<b>Well ID:</b>	7220993			<b>Data Entry Status:</b>	
<b>Construction Date:</b>				<b>Data Src:</b>	
<b>Primary Water Use:</b>	Monitoring and Test Hole			<b>Date Received:</b>	5/30/2014
<b>Sec. Water Use:</b>	0			<b>Selected Flag:</b>	Yes
<b>Final Well Status:</b>	Test Hole			<b>Abandonment Rec:</b>	
<b>Water Type:</b>				<b>Contractor:</b>	7241
<b>Casing Material:</b>				<b>Form Version:</b>	7
<b>Audit No:</b>	Z186827			<b>Owner:</b>	
<b>Tag:</b>	A155725			<b>Street Name:</b>	1541 MERIVALE RD
<b>Construction Method:</b>				<b>County:</b>	OTTAWA-CARLETON
<b>Elevation (m):</b>				<b>Municipality:</b>	NEPEAN TOWNSHIP
<b>Elevation Reliability:</b>				<b>Site Info:</b>	
<b>Depth to Bedrock:</b>				<b>Lot:</b>	
<b>Well Depth:</b>				<b>Concession:</b>	
<b>Overburden/Bedrock:</b>				<b>Concession Name:</b>	
<b>Pump Rate:</b>				<b>Easting NAD83:</b>	
<b>Static Water Level:</b>				<b>Northing NAD83:</b>	
<b>Flowing (Y/N):</b>				<b>Zone:</b>	
<b>Flow Rate:</b>				<b>UTM Reliability:</b>	
<b>Clear/Cloudy:</b>					
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>	1004790203			<b>Elevation:</b>	67.28
<b>DP2BR:</b>				<b>Elevrc:</b>	
<b>Spatial Status:</b>				<b>Zone:</b>	18
<b>Code OB:</b>				<b>East83:</b>	442389
<b>Code OB Desc:</b>				<b>Org CS:</b>	UTM83
<b>Open Hole:</b>				<b>North83:</b>	5027155
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>	16-APR-14			<b>UTMRC Desc:</b>	margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1005166161				
<b>Layer:</b>	1				
<b>Color:</b>	6				
<b>General Color:</b>	BROWN				
<b>Mat1:</b>	28				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<hr/>					
<b>Most Common Material:</b>		SAND			
<b>Mat2:</b>		11			
<b>Other Materials:</b>		GRAVEL			
<b>Mat3:</b>		68			
<b>Other Materials:</b>		DRY			
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		3.35			
<b>Formation End Depth UOM:</b>		m			
 <u><b>Annular Space/Abandonment Sealing Record</b></u>					
<b>Plug ID:</b>		1005166171			
<b>Layer:</b>		3			
<b>Plug From:</b>		.91			
<b>Plug To:</b>		3.35			
<b>Plug Depth UOM:</b>		m			
 <u><b>Annular Space/Abandonment Sealing Record</b></u>					
<b>Plug ID:</b>		1005166170			
<b>Layer:</b>		2			
<b>Plug From:</b>		.31			
<b>Plug To:</b>		.91			
<b>Plug Depth UOM:</b>		m			
 <u><b>Annular Space/Abandonment Sealing Record</b></u>					
<b>Plug ID:</b>		1005166169			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		.31			
<b>Plug Depth UOM:</b>		m			
 <u><b>Method of Construction &amp; Well Use</b></u>					
<b>Method Construction ID:</b>		1005166168			
<b>Method Construction Code:</b>		2			
<b>Method Construction:</b>		Rotary (Convent.)			
<b>Other Method Construction:</b>					
 <u><b>Pipe Information</b></u>					
<b>Pipe ID:</b>		1005166160			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
 <u><b>Construction Record - Casing</b></u>					
<b>Casing ID:</b>		1005166164			
<b>Layer:</b>		1			
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>		0			
<b>Depth To:</b>		.91			
<b>Casing Diameter:</b>		5.2			
<b>Casing Diameter UOM:</b>		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		m			
<b><u>Construction Record - Screen</u></b>					
Screen ID:		1005166165			
Layer:		1			
Slot:		10			
Screen Top Depth:		.91			
Screen End Depth:		3.35			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
<b><u>Water Details</u></b>					
Water ID:		1005166163			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<b><u>Hole Diameter</u></b>					
Hole ID:		1005166162			
Diameter:		20.32			
Depth From:		0			
Depth To:		3.35			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
<a href="#">11</a>	1 of 1	WNW/111.3	71.3 / 1.45	ON	WWIS
Well ID:	7126601			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	7/30/2009
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	6838
Casing Material:				Form Version:	2
Audit No:	239770			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
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:					
<b><u>Bore Hole Information</u></b>					
Bore Hole ID:	1002581775			Elevation:	75.38
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	442204

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Code OB Desc:</b>				<b>Org CS:</b>	UTM83
<b>Open Hole:</b>				<b>North83:</b>	5027073
<b>Cluster Kind:</b>				<b>UTMRC:</b>	4
<b>Date Completed:</b>		16-JUL-09	<b>UTMRC Desc:</b>		margin of error : 30 m - 100 m
<b>Remarks:</b>				<b>Location Method:</b>	wwr
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> 1003349910					
<b>Layer:</b> 2					
<b>Color:</b> 6					
<b>General Color:</b> BROWN					
<b>Mat1:</b> 01					
<b>Most Common Material:</b> FILL					
<b>Mat2:</b> 28					
<b>Other Materials:</b> SAND					
<b>Mat3:</b> 11					
<b>Other Materials:</b> GRAVEL					
<b>Formation Top Depth:</b> .1					
<b>Formation End Depth:</b> 1.5					
<b>Formation End Depth UOM:</b> m					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> 1003349909					
<b>Layer:</b> 1					
<b>Color:</b> 8					
<b>General Color:</b> BLACK					
<b>Mat1:</b> 27					
<b>Most Common Material:</b> OTHER					
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b> 0					
<b>Formation End Depth:</b> .1					
<b>Formation End Depth UOM:</b> m					
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> 1003349911					
<b>Layer:</b> 3					
<b>Color:</b> 6					
<b>General Color:</b> BROWN					
<b>Mat1:</b> 28					
<b>Most Common Material:</b> SAND					
<b>Mat2:</b> 11					
<b>Other Materials:</b> GRAVEL					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b> 1.5					
<b>Formation End Depth:</b> 3.05					
<b>Formation End Depth UOM:</b> m					

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003349914			
<b>Layer:</b>		2			
<b>Plug From:</b>		.1			
<b>Plug To:</b>		3.05			
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003349913			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		.1			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1003349919			
<b>Method Construction Code:</b>		6			
<b>Method Construction:</b>		Boring			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003349908			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003349916			
<b>Layer:</b>		1			
<b>Material:</b>		5			
<b>Open Hole or Material:</b>		PLASTIC			
<b>Depth From:</b>					
<b>Depth To:</b>					
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003349917			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
<b>Screen End Depth:</b>					
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>		m			
<b>Screen Diameter UOM:</b>		cm			
<b>Screen Diameter:</b>					
<b><u>Water Details</u></b>					
<b>Water ID:</b>		1003349915			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Layer:</b> <b>Kind Code:</b> <b>Kind:</b> <b>Water Found Depth:</b> <b>Water Found Depth UOM:</b> m					
<b>Hole Diameter</b>  <b>Hole ID:</b> 1003349912 <b>Diameter:</b> <b>Depth From:</b> <b>Depth To:</b> <b>Hole Depth UOM:</b> m <b>Hole Diameter UOM:</b> cm					
<a href="#">12</a>	1 of 1	NE/112.8	68.0 / -1.86	35 Java Street Ottawa ON	SPL
<b>Ref No:</b> 0881-AKWVA4 <b>Site No:</b> <b>Incident Dt:</b> 3/14/2017 <b>Year:</b> <b>Incident Cause:</b> <b>Incident Event:</b> Leak/Break <b>Contaminant Code:</b> 15 <b>Contaminant Name:</b> OIL (PETROLEUM BASED, NOT SPECIFIED) <b>Contaminant Limit 1:</b> <b>Contam Limit Freq 1:</b> <b>Contaminant UN No 1:</b> n/a <b>Contaminant Qty:</b> 1 other - see incident description <b>Environment Impact:</b> <b>Nature of Impact:</b> <b>Receiving Medium:</b> <b>Receiving Env:</b> Land <b>Health/Env Conseq:</b> 2 - Minor Environment <b>MOE Response:</b> <b>Dt MOE Arvl on Scn:</b> <b>MOE Reported Dt:</b> 3/29/2017 <b>Dt Document Closed:</b> <b>Agency Involved:</b> <b>SAC Action Class:</b> <b>Incident Reason:</b> Equipment Failure <b>Incident Summary:</b> Francis Fuels: Spill of Oil to Residential Drain					
<b>Discharger Report:</b> <b>Material Group:</b> <b>Client Type:</b> <b>Sector Type:</b> Miscellaneous Communal <b>Source Type:</b> Tank - Above Ground <b>Nearest Watercourse:</b> <b>Site Name:</b> Residential House <UNOFFICIAL> <b>Site Address:</b> 35 Java Street <b>Site District Office:</b> Ottawa <b>Site County/District:</b> <b>Site Postal Code:</b> <b>Site Region:</b> Eastern <b>Site Municipality:</b> Ottawa <b>Site Lot:</b> <b>Site Conc:</b> <b>Northing:</b> 5027152 <b>Easting:</b> 442560 <b>Site Geo Ref Accu:</b> <b>Site Geo Ref Meth:</b> <b>Site Map Datum:</b>					
<a href="#">13</a>	1 of 1	SSW/130.4	70.6 / 0.68	ON	WWIS
<b>Well ID:</b> 7126600 <b>Construction Date:</b> <b>Primary Water Use:</b> <b>Sec. Water Use:</b> <b>Final Well Status:</b> Abandoned-Other <b>Water Type:</b> <b>Casing Material:</b> <b>Audit No:</b> 239787 <b>Tag:</b> <b>Construction Method:</b> <b>Elevation (m):</b> <b>Elevation Reliability:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b>					
<b>Data Entry Status:</b> <b>Data Src:</b> <b>Date Received:</b> 7/30/2009 <b>Selected Flag:</b> Yes <b>Abandonment Rec:</b> Yes <b>Contractor:</b> 6838 <b>Form Version:</b> 2 <b>Owner:</b> <b>Street Name:</b> <b>County:</b> OTTAWA-CARLETON <b>Municipality:</b> OTTAWA CITY <b>Site Info:</b> <b>Lot:</b> <b>Concession:</b> <b>Concession Name:</b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Pump Rate:</b> <b>Static Water Level:</b> <b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Clear/Cloudy:</b>				<b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>	
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b> <b>DP2BR:</b> <b>Spatial Status:</b> <b>Code OB:</b> <b>Code OB Desc:</b> <b>Open Hole:</b> <b>Cluster Kind:</b> <b>Date Completed:</b> <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>	1002581732        09-JUL-09			<b>Elevation:</b> <b>Elevrc:</b> <b>Zone:</b> <b>East83:</b> <b>Org CS:</b> <b>North83:</b> <b>UTMRC:</b> <b>UTMRC Desc:</b> <b>Location Method:</b>	73.25  18 442322 UTM83 5026830 4 margin of error : 30 m - 100 m wwr
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> <b>Layer:</b> <b>Color:</b> <b>General Color:</b> <b>Mat1:</b> <b>Most Common Material:</b> <b>Mat2:</b> <b>Other Materials:</b> <b>Mat3:</b> <b>Other Materials:</b> <b>Formation Top Depth:</b> <b>Formation End Depth:</b> <b>Formation End Depth UOM:</b>	1003349899 3 2 GREY 06 SILT 61 CLAYEY  1.2 3.05 m				
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b> <b>Layer:</b> <b>Color:</b> <b>General Color:</b> <b>Mat1:</b> <b>Most Common Material:</b> <b>Mat2:</b> <b>Other Materials:</b> <b>Mat3:</b> <b>Other Materials:</b> <b>Formation Top Depth:</b> <b>Formation End Depth:</b> <b>Formation End Depth UOM:</b>	1003349898 2 6 BROWN 28 SAND 11 GRAVEL 84 SILTY .1 1.2 m				
<b><u>Overburden and Bedrock</u></b>					
<b><u>Materials Interval</u></b>					
<b>Formation ID:</b>	1003349897				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elev/Diff (m)</b>	<b>Site</b>	<b>DB</b>
<b>Layer:</b>		1			
<b>Color:</b>		8			
<b>General Color:</b>		BLACK			
<b>Mat1:</b>		27			
<b>Most Common Material:</b>		OTHER			
<b>Mat2:</b>					
<b>Other Materials:</b>					
<b>Mat3:</b>					
<b>Other Materials:</b>					
<b>Formation Top Depth:</b>		0			
<b>Formation End Depth:</b>		.1			
<b>Formation End Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003349901			
<b>Layer:</b>		1			
<b>Plug From:</b>		0			
<b>Plug To:</b>		.1			
<b>Plug Depth UOM:</b>		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b>		1003349902			
<b>Layer:</b>		2			
<b>Plug From:</b>		.1			
<b>Plug To:</b>		3.05			
<b>Plug Depth UOM:</b>		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b>		1003349906			
<b>Method Construction Code:</b>		6			
<b>Method Construction:</b>		Boring			
<b>Other Method Construction:</b>					
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b>		1003349896			
<b>Casing No:</b>		0			
<b>Comment:</b>					
<b>Alt Name:</b>					
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b>		1003349904			
<b>Layer:</b>					
<b>Material:</b>					
<b>Open Hole or Material:</b>					
<b>Depth From:</b>					
<b>Depth To:</b>					
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>		cm			
<b>Casing Depth UOM:</b>		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>		1003349905			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Layer:</b> <b>Slot:</b> <b>Screen Top Depth:</b> <b>Screen End Depth:</b> <b>Screen Material:</b> <b>Screen Depth UOM:</b> m <b>Screen Diameter UOM:</b> cm <b>Screen Diameter:</b>					
<b><u>Water Details</u></b>					
<b>Water ID:</b> 1003349903 <b>Layer:</b> 1 <b>Kind Code:</b> 1 <b>Kind:</b> FRESH <b>Water Found Depth:</b> 2.29 <b>Water Found Depth UOM:</b> m					
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b> 1003349900 <b>Diameter:</b> <b>Depth From:</b> <b>Depth To:</b> <b>Hole Depth UOM:</b> m <b>Hole Diameter UOM:</b> cm					
<b>14</b>	1 of 1	<b>N/135.9</b>	<b>68.9 / -1.00</b>	<b>ON</b>	<b>BORE</b>
<b>Borehole ID:</b> 808530 <b>Use:</b> Geotechnical/Geological Investigation <b>Drill Method:</b> Boring <b>Easting:</b> 442425.6 <b>Location Accuracy:</b> <b>Elev. Reliability Note:</b> <b>Total Depth m:</b> 14.8 <b>Township:</b> <b>Lot:</b> <b>Completion Date:</b> 29-NOV-1972 <b>Primary Water Use:</b>					
<b>Type:</b> Borehole <b>Status:</b> <b>UTM Zone:</b> 18 <b>Northing:</b> 5027215.19 <b>Orig. Ground Elev m:</b> 68.1 <b>DEM Ground Elev m:</b> 67.3 <b>Primary Name:</b> BH 21 <b>Concession:</b> <b>Municipality:</b> <b>Static Water Level:</b> .5 <b>Sec. Water Use:</b>					
<b>--Details--</b>					
<b>Stratum ID:</b> 218596733 <b>Bottom Depth(m):</b> 0.1  <b>Stratum ID:</b> 218596734 <b>Bottom Depth(m):</b> 0.8  <b>Stratum ID:</b> 218596735 <b>Bottom Depth(m):</b> 3.0  <b>Stratum ID:</b> 218596736 <b>Bottom Depth(m):</b> 7.9  <b>Stratum ID:</b> 218596737 <b>Bottom Depth(m):</b> 9.6  <b>Stratum ID:</b> 218596738 <b>Bottom Depth(m):</b> 10.7					
<b>Top Depth(m):</b> 0.0 <b>Stratum Desc:</b> Asphalt  <b>Top Depth(m):</b> 0.1 <b>Stratum Desc:</b> Brown Loose Fill-Misc Sand With: Gr  <b>Top Depth(m):</b> 0.8 <b>Stratum Desc:</b> Grey-Brown Very Stiff Weathered Crust Silty Clay  <b>Top Depth(m):</b> 3.0 <b>Stratum Desc:</b> Grey Stiff Silty Clay Occasional: Sa  <b>Top Depth(m):</b> 7.9 <b>Stratum Desc:</b> Grey Very Loose to Dense Till sand silt With: Cl W Gr  <b>Top Depth(m):</b> 9.6 <b>Stratum Desc:</b> Grey Very Dense Silt - Sand With: Blds					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum ID:		218596739		Top Depth(m):	10.7
Bottom Depth(m):		14.8		Stratum Desc:	Grey Limestone
<a href="#">15</a>	1 of 1	SE/138.9	70.3 / 0.43	126 Clarendon Avenue, Ottawa ON	PINC
Incident ID:		2849778		Health Impact:	No
Incident No:		692888		Environment Impact:	No
Type:		FS-Pipeline Incident		Property Damage:	Yes
Status Code:		Pipeline Damage Reason Est		Service Interupt:	Yes
Fuel Occurrence Tp:		Pipeline Strike		Enforce Policy:	Yes
Fuel Type:		Natural Gas		Public Relation:	No
Tank Status:		RC Established		Pipeline System:	
Task No:		3626111		Depth:	25
Spills Action Centre:				Pipe Material:	Plastic
Method Details:		E-mail		PSIG:	40
Fuel Category:		Natural Gas		Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:		11/5/2011 0:00		Regualtor Location:	Outside
Occurrence Start Date:		2011/11/18			
Operation Type:		Construction Site (pipeline strike)			
Pipeline Type:		Service / Riser Distribution Pipeline			
Regulator Type:		Service Regulator (up to 60 psi intake)			
Summary:		126 Clarendon Avenue, Ottawa - 1/2" Pipeline Hit			
Reported By:		Noble, Ryan - Enbridge			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
Occurrence Desc:		roadwork			
Damage Reason:		Excavation practices not sufficient			
Notes:		failed to locate by hand			
<a href="#">16</a>	1 of 2	SSE/147.8	69.9 / 0.00	77 Helena St Ottawa ON	SPL
Ref No:		7758-AQXLVU		Discharger Report:	
Site No:		NA		Material Group:	
Incident Dt:		9/6/2017		Client Type:	
Year:				Sector Type:	Miscellaneous Industrial
Incident Cause:				Source Type:	Pipeline/Components
Incident Event:		Unknown / N/A		Nearest Watercourse:	
Contaminant Code:		35		Site Name:	Residential Line Strike<UNOFFICIAL>
Contaminant Name:		NATURAL GAS (METHANE)		Site Address:	77 Helena St
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site County/District:	
Contaminant UN No 1:		1075		Site Postal Code:	
Contaminant Qty:		0 other - see incident description		Site Region:	Eastern
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:		Air		Northing:	
Health/Env Conseq:		2 - Minor Environment		Easting:	
MOE Response:		No		Site Geo Ref Accu:	
Dt MOE Arvl on Scn:				Site Geo Ref Meth:	
MOE Reported Dt:		9/6/2017		Site Map Datum:	
Dt Document Closed:		10/21/2017			
Agency Involved:					
SAC Action Class:		TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill			
Incident Reason:		Unknown / N/A			
Incident Summary:		TSSA/FSB: 1/2 in Plastic IP Hit- Made Safe			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">16</a>	2 of 2	SSE/147.8	69.9 / 0.00	Enbridge Gas Distribution Inc. 77 Helena Ave. Ottawa ON	SPL
<div> <div> <b>Ref No:</b> 8558-ARTJ4Z  <b>Site No:</b> NA  <b>Incident Dt:</b> 2017/10/04  <b>Year:</b>  <b>Incident Cause:</b>  <b>Incident Event:</b> Leak/Break  <b>Contaminant Code:</b> 35  <b>Contaminant Name:</b> NATURAL GAS (METHANE)  <b>Contaminant Limit 1:</b>  <b>Contam Limit Freq 1:</b>  <b>Contaminant UN No 1:</b> 1075  <b>Contaminant Qty:</b> 0 other - see incident description  <b>Environment Impact:</b>  <b>Nature of Impact:</b>  <b>Receiving Medium:</b>  <b>Receiving Env:</b> Air  <b>Health/Env Conseq:</b> 2 - Minor Environment  <b>MOE Response:</b> No  <b>Dt MOE Arvl on Scn:</b>  <b>MOE Reported Dt:</b> 2017/10/04  <b>Dt Document Closed:</b> 2017/12/16  <b>Agency Involved:</b>  <b>SAC Action Class:</b> TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill  <b>Incident Reason:</b> Operator/Human Error  <b>Incident Summary:</b> TSSA FSB: 1/2" plastic IP nat gas line strike to atm., made safe </div> <div> <b>Discharger Report:</b>  <b>Material Group:</b>  <b>Client Type:</b> Corporation  <b>Sector Type:</b> Miscellaneous Industrial  <b>Source Type:</b> Pipeline/Components  <b>Nearest Watercourse:</b>  <b>Site Name:</b> Residential&lt;UNOFFICIAL&gt;  <b>Site Address:</b> 77 Helena Ave.  <b>Site District Office:</b> Ottawa  <b>Site County/District:</b>  <b>Site Postal Code:</b>  <b>Site Region:</b> Eastern  <b>Site Municipality:</b> Ottawa  <b>Site Lot:</b>  <b>Site Conc:</b>  <b>Northing:</b>  <b>Easting:</b>  <b>Site Geo Ref Accu:</b>  <b>Site Geo Ref Meth:</b>  <b>Site Map Datum:</b> </div> </div>					
<a href="#">17</a>	1 of 1	S/148.4	69.9 / 0.00	Enbridge Gas Distribution Inc. 87 Helena St. Ottawa ON	SPL
<div> <div> <b>Ref No:</b> 4884-AR5Q5C  <b>Site No:</b> NA  <b>Incident Dt:</b> 9/12/2017  <b>Year:</b>  <b>Incident Cause:</b>  <b>Incident Event:</b> Leak/Break  <b>Contaminant Code:</b> 35  <b>Contaminant Name:</b> NATURAL GAS (METHANE)  <b>Contaminant Limit 1:</b>  <b>Contam Limit Freq 1:</b>  <b>Contaminant UN No 1:</b> 1075  <b>Contaminant Qty:</b> 0 other - see incident description  <b>Environment Impact:</b>  <b>Nature of Impact:</b>  <b>Receiving Medium:</b>  <b>Receiving Env:</b> Air  <b>Health/Env Conseq:</b> 2 - Minor Environment  <b>MOE Response:</b> No  <b>Dt MOE Arvl on Scn:</b>  <b>MOE Reported Dt:</b> 9/12/2017  <b>Dt Document Closed:</b> 10/21/2017  <b>Agency Involved:</b>  <b>SAC Action Class:</b> TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill  <b>Incident Reason:</b> Operator/Human Error  <b>Incident Summary:</b> TSSA/FSB: Enbridge 1/2" PL IP Strike - Made Safe </div> <div> <b>Discharger Report:</b>  <b>Material Group:</b>  <b>Client Type:</b> Corporation  <b>Sector Type:</b> Miscellaneous Communal  <b>Source Type:</b> Valve/Fitting/Piping  <b>Nearest Watercourse:</b>  <b>Site Name:</b> Half Inch IP Plastic Line Strike &lt;UNOFFICIAL&gt;  <b>Site Address:</b> 87 Helena St.  <b>Site District Office:</b> Ottawa  <b>Site County/District:</b>  <b>Site Postal Code:</b>  <b>Site Region:</b> Eastern  <b>Site Municipality:</b> Ottawa  <b>Site Lot:</b>  <b>Site Conc:</b>  <b>Northing:</b>  <b>Easting:</b>  <b>Site Geo Ref Accu:</b>  <b>Site Geo Ref Meth:</b>  <b>Site Map Datum:</b> </div> </div>					
<a href="#">18</a>	1 of 1	E/153.0	68.9 / -1.00	125 Faraday Street, Ottawa ON	INC

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Incident No:</b> 627266 <b>Incident ID:</b> 2783932 <b>Attribute Category:</b> FS-Perform L1 Incident Insp <b>Status Code:</b> Causal Analysis Complete <b>Incident Location:</b> 125 Faraday Street, Ottawa - Leak <b>Drainage System:</b> Unknown <b>Sub Surface Contam.:</b> unknown <b>Aff. Prop. Use Water:</b> No <b>Contam. Migrated:</b> No <b>Contact Natural Env.:</b> Unknown <b>Near Body of Water:</b> No <b>Approx. Quant. Rel.:</b> unknown <b>Equipment Model:</b> <b>Serial No:</b> <b>Residential App. Type:</b> <b>Commercial App. Type:</b> <b>Industrial App. Type:</b> <b>Institutional App. Type:</b> <b>Venting Type:</b> <b>Vent Connector Mater:</b> <b>Vent Chimney Mater:</b> <b>Pipeline Type:</b> <b>Pipeline Involved:</b> <b>Pipe Material:</b> <b>Depth Ground Cover:</b> <b>Regulator Location:</b> <b>Regulator Type:</b> <b>Operation Pressure:</b> <b>Liquid Prop Make:</b> <b>Liquid Prop Model:</b> <b>Liquid Prop Serial No:</b> <b>Equipment Type:</b> <b>Cylinder Capacity:</b> <b>Cylinder Capac. Units:</b> <b>Cylinder Material Type:</b> <b>Tank Capacity:</b> <b>Fuels Occurrence Type:</b> Leak <b>Fuel Type Involved:</b> Fuel Oil <b>Date of Occurrence:</b> 2011/07/19 00:00:00 <b>Time of Occurrence:</b> NULL <b>Occur Insp Start Date:</b> 2011/07/19 00:00:00 <b>Any Health Impact:</b> No <b>Any Environmental Impact:</b> Unknown <b>Was Service Interrupted:</b> Yes <b>Was Property Damaged:</b> Yes <b>Operation Type Involved:</b> Private Dwelling <b>Enforcement Policy:</b> NULL <b>Prc Escalation Required:</b> NULL <b>Task No:</b> 3417765 <b>Notes:</b> <b>Occurrence Narrative:</b> NULL <b>Tank Material Type:</b> <b>Tank Storage Type:</b> <b>Tank Location Type:</b> <b>Pump Flow Rate Capac:</b> <b>Liquid Prop Notes:</b>					
<a href="#">19</a>	1 of 1	WSW/154.2	71.9 / 2.00	Vinci SD Exports Ltd. 139 Iona St Ottawa ON K1Y 3M2	SCT
<b>Established:</b> 01-SEP-03 <b>Plant Size (ft²):</b> 600					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Employment:					
--Details--					
Description:		Wholesale Trade Agents and Brokers			
SIC/NAICS Code:		419120			
20	1 of 1	ESE/157.5	69.9 / 0.00	136 Faraday Street, Ottawa ON	PINC
Incident ID:		2807980		Health Impact:	No
Incident No:		651224		Environment Impact:	No
Type:		FS-Pipeline Incident		Property Damage:	Yes
Status Code:		Pipeline Damage Reason Est		Service Interrupt:	Yes
Fuel Occurrence Tp:		Pipeline Strike		Enforce Policy:	Yes
Fuel Type:		Natural Gas		Public Relation:	No
Tank Status:		RC Established		Pipeline System:	
Task No:		3461627		Depth:	34
Spills Action Centre:				Pipe Material:	Plastic
Method Details:		E-mail		PSIG:	50
Fuel Category:		Natural Gas		Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:		8/2/2011 0:00		Regualtor Location:	Outside
Occurrence Start Date:		2011/10/24			
Operation Type:		Construction Site (pipeline strike)			
Pipeline Type:		Service / Riser Distribution Pipeline			
Regulator Type:		Service Regulator (up to 60 psi intake)			
Summary:		136 Faraday Street, Ottawa - 1/2" Pipeline Hit			
Reported By:		Couvillon, Sylvain - Enbridge			
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
Occurrence Desc:		Linestrike - Failed To Protect			
Damage Reason:		Excavation practices not sufficient			
Notes:		Linestrike - Failed To Protect			
21	1 of 1	SE/167.6	70.9 / 1.03	OTTAWA CITY - ISLAND PK. DR./GENEVA ST. HELENA ST./CLARENDON AVE. OTTAWA CITY ON	CA
Certificate #:		3-0845-91-			
Application Year:		91			
Issue Date:		6/14/1991			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
22	1 of 1	NNE/167.9	67.9 / -2.00	31 KENORA STREET OTTAWA ON K1Y 3K7	HINC
External File Num:		FS INC 0705-02229			
Date of Occurrence:		4/26/2007			
Fuel Occurrence Type:		Pipeline Strike			
Fuel Type Involved:		Natural Gas			
Status Desc:		Completed - Causal Analysis(End)			
Job Type Desc:		Incident/Near-Miss Occurrence (FS)			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Oper. Type Involved:</b> Construction Site (pipeline strike) <b>Service Interruptions:</b> Yes <b>Property Damage:</b> Yes <b>Fuel Life Cycle Stage:</b> Transmission, Distribution and Transportation <b>Root Cause:</b> Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:Yes Management:Yes Human Factors:No <b>Reported Details:</b> <b>Fuel Category:</b> Gaseous Fuel <b>Occurrence Type:</b> Incident <b>Affiliation:</b> Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) <b>County Name:</b> Ottawa <b>Approx. Quant. Rel:</b> <b>Nearby body of water:</b> <b>Enter Drainage Syst.:</b> <b>Approx. Quant. Unit:</b> <b>Environmental Impact:</b>					
<a href="#">23</a>	1 of 1	E/195.2	68.9 / -1.00	112 Faraday Street, Ottawa ON	PINC
<b>Incident ID:</b> <b>Incident No:</b> 650010 <b>Type:</b> FS-Pipeline Incident <b>Status Code:</b> Pipeline Damage Reason Est <b>Fuel Occurrence Tp:</b> <b>Fuel Type:</b> <b>Tank Status:</b> RC Established <b>Task No:</b> 3459048 <b>Spills Action Centre:</b> <b>Method Details:</b> E-mail <b>Fuel Category:</b> Natural Gas <b>Date of Occurrence:</b> <b>Occurrence Start Date:</b> 2011/09/14 <b>Operation Type:</b> <b>Pipeline Type:</b> <b>Regulator Type:</b> <b>Summary:</b> 112 Faraday Street, Ottawa - 1/2" Pipeline Hit <b>Reported By:</b> Stiles, Jeff <b>Affiliation:</b> <b>Occurrence Desc:</b> <b>Damage Reason:</b> Excavation practices not sufficient <b>Notes:</b>					
<b>Health Impact:</b> <b>Environment Impact:</b> <b>Property Damage:</b> Yes <b>Service Interrupt:</b> <b>Enforce Policy:</b> Yes <b>Public Relation:</b> <b>Pipeline System:</b> <b>Depth:</b> <b>Pipe Material:</b> <b>PSIG:</b> <b>Attribute Category:</b> FS-Perform P-line Inc Invest <b>Regulator Location:</b>					
<a href="#">24</a>	1 of 1	N/202.8	68.9 / -1.00	ON	BORE
<b>Borehole ID:</b> 808534 <b>Use:</b> Geotechnical/Geological Investigation <b>Drill Method:</b> Boring <b>Easting:</b> 442395.47 <b>Location Accuracy:</b> <b>Elev. Reliability Note:</b> <b>Total Depth m:</b> 14.4 <b>Township:</b> <b>Lot:</b> <b>Completion Date:</b> 28-MAR-1973 <b>Primary Water Use:</b>					
<b>Type:</b> Borehole <b>Status:</b> <b>UTM Zone:</b> 18 <b>Northing:</b> 5027275.24 <b>Orig. Ground Elev m:</b> 67.2 <b>DEM Ground Elev m:</b> 66.9 <b>Primary Name:</b> BH W23 <b>Concession:</b> <b>Municipality:</b> <b>Static Water Level:</b> 2.1 <b>Sec. Water Use:</b>					
<b>--Details--</b> <b>Stratum ID:</b> 218596756 <b>Top Depth(m):</b> 0.3					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Bottom Depth(m):</b>	1.0			<b>Stratum Desc:</b>	Brown Compact Silt - Sand With: Gr
<b>Stratum ID:</b>	218596757			<b>Top Depth(m):</b>	1.0
<b>Bottom Depth(m):</b>	2.7			<b>Stratum Desc:</b>	Grey-Brown Very Stiff Weathered Crust Silty Clay
<b>Stratum ID:</b>	218596758			<b>Top Depth(m):</b>	2.7
<b>Bottom Depth(m):</b>	7.0			<b>Stratum Desc:</b>	Grey Stiff Silty Clay
<b>Stratum ID:</b>	218596759			<b>Top Depth(m):</b>	7.0
<b>Bottom Depth(m):</b>	9.1			<b>Stratum Desc:</b>	Grey Compact Till sand silt With: Gr Trace: Cl
<b>Stratum ID:</b>	218596760			<b>Top Depth(m):</b>	9.1
<b>Bottom Depth(m):</b>	12.9			<b>Stratum Desc:</b>	Grey Compact to Dense Sand - Gravel With: Si Occasional: Blds
<b>Stratum ID:</b>	218596761			<b>Top Depth(m):</b>	12.9
<b>Bottom Depth(m):</b>	14.4			<b>Stratum Desc:</b>	Grey Bedrock Limestone
<b>Stratum ID:</b>	218596755			<b>Top Depth(m):</b>	0.0
<b>Bottom Depth(m):</b>	0.3			<b>Stratum Desc:</b>	Dark Brown Fill-Misc sand silt

<a href="#"><u>25</u></a>	1 of 3	SW/204.9	71.9 / 2.00	PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON K1Y 0B4	CFOT
<b>Licence No:</b>				<b>Letter Sent:</b>	
<b>Registration No:</b>				<b>Corrosion Protection:</b>	
<b>Posse File No:</b>				<b>Province:</b>	ON
<b>Posse Reg No:</b>				<b>Nbr:</b>	968
<b>Tank Type:</b>	Liquid Fuel Single Wall UST			<b>Contact Name:</b>	
<b>Instance Number:</b>	43230193			<b>Contact Address:</b>	
<b>Facility Type:</b>	FS Fuel Oil Tank			<b>Contact Address2:</b>	
<b>Instance Type:</b>	FS Fuel Oil Tank			<b>Contact Suite:</b>	
<b>Status Name:</b>	EXPIRED			<b>Contact City:</b>	
<b>Fuel Type:</b>	Fuel Oil			<b>Contact Prov:</b>	
<b>Distributor:</b>				<b>Contact Postal:</b>	
<b>Tank Material:</b>				<b>Tank Address:</b>	505 ISLAND PARK DR
<b>Tank Age (as of 05/1992):</b>				<b>Comments:</b>	
<b>Tank Size:</b>	2273				

<a href="#"><u>25</u></a>	2 of 3	SW/204.9	71.9 / 2.00	PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON	EXP
<b>Instance No:</b>	43230193				
<b>Instance ID:</b>	313916				
<b>Instance Type:</b>	FS Fuel Oil Tank				
<b>Description:</b>	Fuel Oil Tank				
<b>Status:</b>	EXPIRED				
<b>TSSA Program Area:</b>					
<b>Maximum Hazard Rank:</b>					
<b>Facility Type:</b>					
<b>Expired Date:</b>					

<a href="#"><u>25</u></a>	3 of 3	SW/204.9	71.9 / 2.00	PAULINE SCOTT 505 ISLAND PARK DR OTTAWA ON K1Y 0B4	EXP
<b>Instance No:</b>	43230193				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Instance ID:</b> <b>Instance Type:</b> FS Fuel Oil Tank <b>Description:</b> <b>Status:</b> EXPIRED <b>TSSA Program Area:</b> <b>Maximum Hazard Rank:</b> <b>Facility Type:</b> <b>Expired Date:</b> 7/23/2009 13:00					
<a href="#">26</a>	1 of 1	SSW/216.2	70.9 / 1.00	<b>ULTRAMAR</b> 112 HELENA ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3N1	<a href="#">SPL</a>
<b>Ref No:</b> 68740 <b>Site No:</b> <b>Incident Dt:</b> 4/3/1992 <b>Year:</b> <b>Incident Cause:</b> PIPE/HOSE LEAK <b>Incident Event:</b> <b>Contaminant Code:</b> <b>Contaminant Name:</b> <b>Contaminant Limit 1:</b> <b>Contam Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>Environment Impact:</b> NOT ANTICIPATED <b>Nature of Impact:</b> Soil contamination <b>Receiving Medium:</b> LAND <b>Receiving Env:</b> <b>Health/Env Conseq:</b> <b>MOE Response:</b> <b>Dt MOE Arvl on Scn:</b> <b>MOE Reported Dt:</b> 4/3/1992 <b>Dt Document Closed:</b> <b>Agency Involved:</b> <b>SAC Action Class:</b> <b>Incident Reason:</b> UNKNOWN <b>Incident Summary:</b> ULTRAMAR - FUEL OIL TO GROUND WHILE FILLING HOME FUL OIL TANK					
<b>Discharger Report:</b> <b>Material Group:</b> <b>Client Type:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Nearest Watercourse:</b> <b>Site Name:</b> <b>Site Address:</b> <b>Site District Office:</b> <b>Site County/District:</b> <b>Site Postal Code:</b> <b>Site Region:</b> <b>Site Municipality:</b> 20101 <b>Site Lot:</b> <b>Site Conc:</b> <b>Northing:</b> <b>Easting:</b> <b>Site Geo Ref Accu:</b> <b>Site Geo Ref Meth:</b> <b>Site Map Datum:</b>					
<a href="#">27</a>	1 of 1	E/216.3	68.9 / -1.00	<b>PETRO-CANADA</b> HOME OF MR. PARSONS, 108 FARADAY ST. TANK TRUCK (CARGO) OTTAWA CITY ON K1Y 3M4	<a href="#">SPL</a>
<b>Ref No:</b> 36767 <b>Site No:</b> <b>Incident Dt:</b> 4/23/1990 <b>Year:</b> <b>Incident Cause:</b> OTHER CONTAINER LEAK <b>Incident Event:</b> <b>Contaminant Code:</b> <b>Contaminant Name:</b> <b>Contaminant Limit 1:</b> <b>Contam Limit Freq 1:</b> <b>Contaminant UN No 1:</b> <b>Contaminant Qty:</b> <b>Environment Impact:</b> NOT ANTICIPATED <b>Nature of Impact:</b> <b>Receiving Medium:</b> LAND <b>Receiving Env:</b> <b>Health/Env Conseq:</b> <b>MOE Response:</b>					
<b>Discharger Report:</b> <b>Material Group:</b> <b>Client Type:</b> <b>Sector Type:</b> <b>Source Type:</b> <b>Nearest Watercourse:</b> <b>Site Name:</b> <b>Site Address:</b> <b>Site District Office:</b> <b>Site County/District:</b> <b>Site Postal Code:</b> <b>Site Region:</b> <b>Site Municipality:</b> 20101 <b>Site Lot:</b> <b>Site Conc:</b> <b>Northing:</b> <b>Easting:</b> <b>Site Geo Ref Accu:</b>					



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Dt MOE Arvl on Scn:</b> <b>MOE Reported Dt:</b> 4/24/1990 <b>Dt Document Closed:</b> <b>Agency Involved:</b> <b>SAC Action Class:</b> <b>Incident Reason:</b> UNKNOWN <b>Incident Summary:</b> BACKENTRY- 5 LTR FURNACE OIL TO GROUND, OVERFLOW TUBE UNDER TRUCK TANK					
<a href="#">28</a>	1 of 2	SW/225.4	71.9 / 2.00	<b>City of Ottawa</b> <b>Merivale Road between Island Park Crescent and Carling Avenue</b> <b>Ottawa ON K2G 6J8</b>	ECA
<b>Approval No:</b> 0496-8FQKFV <b>Approval Date:</b> 2011-05-19 <b>Status:</b> Approved <b>Record Type:</b> ECA <b>Link Source:</b> IDS <b>Approval Type:</b> ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS <b>Project Type:</b> MUNICIPAL AND PRIVATE SEWAGE WORKS <b>Address:</b> Merivale Road between Island Park Crescent and Carling Avenue <b>Full Address:</b> <b>Full PDF Link:</b> <a href="https://www.accessenvironment.ene.gov.on.ca/instruments/6045-8DVJVZ-14.pdf">https://www.accessenvironment.ene.gov.on.ca/instruments/6045-8DVJVZ-14.pdf</a>					
<a href="#">28</a>	2 of 2	SW/225.4	71.9 / 2.00	<b>City of Ottawa</b> <b>Merivale Road from Carling Avenue to Geneva St</b> <b>Ottawa ON K2G 6J8</b>	ECA
<b>Approval No:</b> 6483-88QLWF <b>Approval Date:</b> 2010-09-14 <b>Status:</b> Revoked and/or Replaced <b>Record Type:</b> ECA <b>Link Source:</b> IDS <b>Approval Type:</b> ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS <b>Project Type:</b> MUNICIPAL AND PRIVATE SEWAGE WORKS <b>Address:</b> Merivale Road from Carling Avenue to Geneva St <b>Full Address:</b> <b>Full PDF Link:</b> <a href="https://www.accessenvironment.ene.gov.on.ca/instruments/9129-86JKTJ-14.pdf">https://www.accessenvironment.ene.gov.on.ca/instruments/9129-86JKTJ-14.pdf</a>					
<a href="#">29</a>	1 of 1	SSE/228.6	70.9 / 1.00	<b>Allen Ford Design</b> <b>53 Geneva St</b> <b>Ottawa ON K1Y 3N6</b>	SCT
<b>Established:</b> 2003 <b>Plant Size (ft²):</b> <b>Employment:</b> 1  <b>--Details--</b> <b>Description:</b> Software Publishers <b>SIC/NAICS Code:</b> 511210  <b>Description:</b> Graphic Design Services <b>SIC/NAICS Code:</b> 541430					
<a href="#">30</a>	1 of 1	SSE/229.2	70.9 / 1.00	<b>55 Geneva Street, Ottawa</b> <b>ON</b>	PINC
<b>Incident ID:</b> <b>Health Impact:</b>					



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Construction Method:</b> <b>Elevation (m):</b> <b>Elevation Reliability:</b> <b>Depth to Bedrock:</b> <b>Well Depth:</b> <b>Overburden/Bedrock:</b> <b>Pump Rate:</b> <b>Static Water Level:</b> <b>Flowing (Y/N):</b> <b>Flow Rate:</b> <b>Clear/Cloudy:</b>				<b>County:</b> <b>Municipality:</b> <b>Site Info:</b> <b>Lot:</b> <b>Concession:</b> <b>Concession Name:</b> <b>Easting NAD83:</b> <b>Northing NAD83:</b> <b>Zone:</b> <b>UTM Reliability:</b>	OTTAWA-CARLETON OTTAWA CITY
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b> <b>DP2BR:</b> <b>Spatial Status:</b> <b>Code OB:</b> <b>Code OB Desc:</b> <b>Open Hole:</b> <b>Cluster Kind:</b> <b>Date Completed:</b> <b>Remarks:</b> <b>Elevrc Desc:</b> <b>Location Source Date:</b> <b>Improvement Location Source:</b> <b>Improvement Location Method:</b> <b>Source Revision Comment:</b> <b>Supplier Comment:</b>	1002748916       This is a record from cluster log sheet 09-DEC-08			<b>Elevation:</b> <b>Elevrc:</b> <b>Zone:</b> <b>East83:</b> <b>Org CS:</b> <b>North83:</b> <b>UTMRC:</b> <b>UTMRC Desc:</b> <b>Location Method:</b>	69.23  18 442729 UTM83 5027017 3 margin of error : 10 - 30 m wwr
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
<b>Plug ID:</b> <b>Layer:</b> <b>Plug From:</b> <b>Plug To:</b> <b>Plug Depth UOM:</b>	1002748920				
<b><u>Method of Construction &amp; Well Use</u></b>					
<b>Method Construction ID:</b> <b>Method Construction Code:</b> <b>Method Construction:</b> <b>Other Method Construction:</b>	1002748919   HSA/DIA				
<b><u>Pipe Information</u></b>					
<b>Pipe ID:</b> <b>Casing No:</b> <b>Comment:</b> <b>Alt Name:</b>	1002748921 0				
<b><u>Construction Record - Casing</u></b>					
<b>Casing ID:</b> <b>Layer:</b> <b>Material:</b> <b>Open Hole or Material:</b> <b>Depth From:</b> <b>Depth To:</b>	1002748923  5 PLASTIC  1.5				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b>Casing Diameter:</b>					
<b>Casing Diameter UOM:</b>					
<b>Casing Depth UOM:</b>					
		m			
<b><u>Construction Record - Screen</u></b>					
<b>Screen ID:</b>					
		1002748922			
<b>Layer:</b>					
<b>Slot:</b>					
<b>Screen Top Depth:</b>					
		1.5			
<b>Screen End Depth:</b>					
		4.5			
<b>Screen Material:</b>					
<b>Screen Depth UOM:</b>					
		m			
<b>Screen Diameter UOM:</b>					
<b>Screen Diameter:</b>					
<b><u>Results of Well Yield Testing</u></b>					
<b>Pump Test ID:</b>					
		1002748924			
<b>Pump Set At:</b>					
<b>Static Level:</b>					
<b>Final Level After Pumping:</b>					
<b>Recommended Pump Depth:</b>					
<b>Pumping Rate:</b>					
<b>Flowing Rate:</b>					
<b>Recommended Pump Rate:</b>					
<b>Levels UOM:</b>					
<b>Rate UOM:</b>					
<b>Water State After Test Code:</b>					
<b>Water State After Test:</b>					
<b>Pumping Test Method:</b>					
<b>Pumping Duration HR:</b>					
<b>Pumping Duration MIN:</b>					
<b>Flowing:</b>					
<b><u>Hole Diameter</u></b>					
<b>Hole ID:</b>					
		1002748918			
<b>Diameter:</b>					
		20			
<b>Depth From:</b>					
<b>Depth To:</b>					
		4.5			
<b>Hole Depth UOM:</b>					
		m			
<b>Hole Diameter UOM:</b>					
		cm			
<b><u>Bore Hole Information</u></b>					
<b>Bore Hole ID:</b>					
		1002032319			
<b>DP2BR:</b>					
<b>Spatial Status:</b>					
<b>Code OB:</b>					
<b>Code OB Desc:</b>					
<b>Open Hole:</b>					
		N			
<b>Cluster Kind:</b>					
<b>Date Completed:</b>					
		09-DEC-08			
<b>Remarks:</b>					
<b>Elevrc Desc:</b>					
<b>Location Source Date:</b>					
<b>Improvement Location Source:</b>					
<b>Improvement Location Method:</b>					
<b>Source Revision Comment:</b>					
<b>Supplier Comment:</b>					
<b>Elevation:</b>					
		69.23			
<b>Elevrc:</b>					
<b>Zone:</b>					
		18			
<b>East83:</b>					
		442729			
<b>Org CS:</b>					
		UTM83			
<b>North83:</b>					
		5027017			
<b>UTMRC:</b>					
		4			
<b>UTMRC Desc:</b>					
		margin of error : 30 m - 100 m			
<b>Location Method:</b>					
		wwr			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1002748926			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Other Materials:		STONES			
Mat3:		81			
Other Materials:		SANDY			
Formation Top Depth:		0			
Formation End Depth:		3			
Formation End Depth UOM:		m			
<b><u>Overburden and Bedrock Materials Interval</u></b>					
Formation ID:		1002748927			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		26			
Most Common Material:		ROCK			
Mat2:		15			
Other Materials:		LIMESTONE			
Mat3:					
Other Materials:					
Formation Top Depth:		3			
Formation End Depth:		10.2			
Formation End Depth UOM:		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
Plug ID:		1002748930			
Layer:		1			
Plug From:		.8			
Plug To:		1			
Plug Depth UOM:		m			
<b><u>Annular Space/Abandonment Sealing Record</u></b>					
Plug ID:		1002748931			
Layer:		2			
Plug From:		4.8			
Plug To:		6			
Plug Depth UOM:		m			
<b><u>Method of Construction &amp; Well Use</u></b>					
Method Construction ID:		1002748934			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:		HSA			
<b><u>Pipe Information</u></b>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID: Casing No: Comment: Alt Name:		1002748925 0			
<b><u>Construction Record - Screen</u></b>					
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:		1002748932 1 10   5 m cm 3.1			
<b><u>Hole Diameter</u></b>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:		1002748929 10 3 10.2 m cm			
<b><u>Hole Diameter</u></b>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:		1002748928 20 0 3 m cm			
<a href="#">33</a>	1 of 2	NE/245.1	68.0 / -1.92	Agent Signs & Designs - Div. of Akram Ghosn Enterprises 68 Harmer Ave N Ottawa ON K1Y 0T8	SCT
Established: Plant Size (ft²): Employment:		1979  2			
--Details-- Description: SIC/NAICS Code:		Sign Manufacturing 339950			
<a href="#">33</a>	2 of 2	NE/245.1	68.0 / -1.92	Agent Signs & Designs - Div. of Agent Signs 68 Harmer Ave N Ottawa ON K1Y 0T8	SCT
Established: Plant Size (ft²): Employment:		1979  2			
--Details-- Description: SIC/NAICS Code:		Sign Manufacturing 339950			



Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">34</a>	1 of 1	N/250.6	69.0 / -0.92	43 CLARENDON AVE. , OTTAWA ON	PINC
<div> <div> <b>Incident ID:</b>  <b>Incident No:</b> 1247366  <b>Type:</b> FS-Pipeline Incident  <b>Status Code:</b> Pipeline Damage Reason Est  <b>Fuel Occurrence Tp:</b>  <b>Fuel Type:</b>  <b>Tank Status:</b> RC Established  <b>Task No:</b> 4651565  <b>Spills Action Centre:</b>  <b>Method Details:</b> E-mail  <b>Fuel Category:</b> Natural Gas  <b>Date of Occurrence:</b>  <b>Occurrence Start Date:</b> 2013/12/10  <b>Operation Type:</b>  <b>Pipeline Type:</b>  <b>Regulator Type:</b>  <b>Summary:</b> 43 CLARENDON AVE. , OTTAWA - PIPELINE HIT 1/2"  <b>Reported By:</b> Jeff.Stiles@enbridge.com  <b>Affiliation:</b>  <b>Occurrence Desc:</b>  <b>Damage Reason:</b> Excavation practices not sufficient  <b>Notes:</b> </div> <div> <b>Health Impact:</b>  <b>Environment Impact:</b>  <b>Property Damage:</b> Yes  <b>Service Interrupt:</b>  <b>Enforce Policy:</b> Yes  <b>Public Relation:</b>  <b>Pipeline System:</b>  <b>Depth:</b>  <b>Pipe Material:</b>  <b>PSIG:</b>  <b>Attribute Category:</b> FS-Perform P-line Inc Invest  <b>Regulator Location:</b> </div> </div>					
<a href="#">35</a>	1 of 1	ENE/260.7	67.9 / -2.00	Enbridge Gas Distribution Inc. near intersection of Harmer Ave. North and Iona St. Ottawa ON	SPL
<div> <div> <b>Ref No:</b> 0087-8C4N4B  <b>Site No:</b>  <b>Incident Dt:</b>  <b>Year:</b>  <b>Incident Cause:</b> Other Discharges  <b>Incident Event:</b>  <b>Contaminant Code:</b> 35  <b>Contaminant Name:</b> NATURAL GAS (METHANE)  <b>Contaminant Limit 1:</b>  <b>Contam Limit Freq 1:</b>  <b>Contaminant UN No 1:</b>  <b>Contaminant Qty:</b> 0 other - see incident description  <b>Environment Impact:</b> Confirmed  <b>Nature of Impact:</b> Air Pollution; Human Health/Safety  <b>Receiving Medium:</b>  <b>Receiving Env:</b>  <b>Health/Env Conseq:</b>  <b>MOE Response:</b> Referral to others  <b>Dt MOE Arvl on Scn:</b>  <b>MOE Reported Dt:</b> 12/13/2010  <b>Dt Document Closed:</b> 12/16/2010  <b>Agency Involved:</b>  <b>SAC Action Class:</b> Air Spills - Gases and Vapours  <b>Incident Reason:</b> Other - Reason not otherwise defined  <b>Incident Summary:</b> TSSA 2" gas main strike, school evacuated </div> <div> <b>Discharger Report:</b>  <b>Material Group:</b>  <b>Client Type:</b>  <b>Sector Type:</b> Pipeline  <b>Source Type:</b>  <b>Nearest Watercourse:</b>  <b>Site Name:</b> 250 Holland&lt;UNOFFICIAL&gt;  <b>Site Address:</b> near intersection of Harmer Ave. North and Iona St.  <b>Site District Office:</b>  <b>Site County/District:</b>  <b>Site Postal Code:</b>  <b>Site Region:</b>  <b>Site Municipality:</b> Ottawa  <b>Site Lot:</b>  <b>Site Conc:</b>  <b>Northing:</b>  <b>Easting:</b>  <b>Site Geo Ref Accu:</b>  <b>Site Geo Ref Meth:</b>  <b>Site Map Datum:</b> </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<a href="#">36</a>	1 of 1	N/268.5	68.9 / -1.00	ON	BORE
<b>Borehole ID:</b> 808529 <b>Use:</b> Geotechnical/Geological Investigation <b>Drill Method:</b> Rotary (conventional) <b>Easting:</b> 442372.15 <b>Location Accuracy:</b> <b>Elev. Reliability Note:</b> <b>Total Depth m:</b> 14.8 <b>Township:</b> <b>Lot:</b> <b>Completion Date:</b> 27-NOV-1973 <b>Primary Water Use:</b>		<b>Type:</b> Borehole <b>Status:</b> <b>UTM Zone:</b> 18 <b>Northing:</b> 5027336.67 <b>Orig. Ground Elev m:</b> 67.1 <b>DEM Ground Elev m:</b> 66.5 <b>Primary Name:</b> BH W20 <b>Concession:</b> <b>Municipality:</b> <b>Static Water Level:</b> .8 <b>Sec. Water Use:</b>			
<b>--Details--</b>					
<b>Stratum ID:</b> 218596727				<b>Top Depth(m):</b> 0.0	
<b>Bottom Depth(m):</b> 0.1				<b>Stratum Desc:</b> Asphalt	
<b>Stratum ID:</b> 218596728				<b>Top Depth(m):</b> 0.1	
<b>Bottom Depth(m):</b> 1.1				<b>Stratum Desc:</b> Grey Fill -Rock Limestone	
<b>Stratum ID:</b> 218596729				<b>Top Depth(m):</b> 1.1	
<b>Bottom Depth(m):</b> 2.4				<b>Stratum Desc:</b> Grey-Brown Very Stiff Weathered Crust Silty Clay	
<b>Stratum ID:</b> 218596730				<b>Top Depth(m):</b> 2.4	
<b>Bottom Depth(m):</b> 5.8				<b>Stratum Desc:</b> Grey Firm to Stiff Silty Clay Trace: Gr	
<b>Stratum ID:</b> 218596731				<b>Top Depth(m):</b> 5.8	
<b>Bottom Depth(m):</b> 9.7				<b>Stratum Desc:</b> Grey Very Dense Sand - Gravel With: Si W Cob W Blds	
<b>Stratum ID:</b> 218596732				<b>Top Depth(m):</b> 9.7	
<b>Bottom Depth(m):</b> 14.8				<b>Stratum Desc:</b> Grey Limestone	
<a href="#">37</a>	1 of 1	E/272.4	68.9 / -1.00	ON	BORE
<b>Borehole ID:</b> 847358 <b>Use:</b> Geotechnical/Geological Investigation <b>Drill Method:</b> Boring <b>Easting:</b> 442761 <b>Location Accuracy:</b> <b>Elev. Reliability Note:</b> <b>Total Depth m:</b> 7.7 <b>Township:</b> NEPEAN <b>Lot:</b> LOT 34 <b>Completion Date:</b> 30-JUL-1959 <b>Primary Water Use:</b>		<b>Type:</b> Borehole <b>Status:</b> Decommissioned <b>UTM Zone:</b> 18 <b>Northing:</b> 5026970 <b>Orig. Ground Elev m:</b> 72.5 <b>DEM Ground Elev m:</b> 71 <b>Primary Name:</b> CON 1 ON OTTAWA RIVER <b>Concession:</b> <b>Municipality:</b> <b>Static Water Level:</b> 3.4 <b>Sec. Water Use:</b>			
<b>--Details--</b>					
<b>Stratum ID:</b> 6556997				<b>Top Depth(m):</b> 0.0	
<b>Bottom Depth(m):</b> 0.3				<b>Stratum Desc:</b> BLACK TOPSOIL	
<b>Stratum ID:</b> 6556998				<b>Top Depth(m):</b> 0.3	
<b>Bottom Depth(m):</b> 1.5				<b>Stratum Desc:</b> BROWN SILTY SANDY CLAY	
<b>Stratum ID:</b> 6556999				<b>Top Depth(m):</b> 1.5	
<b>Bottom Depth(m):</b> 5.8				<b>Stratum Desc:</b> GREY BOULDER TILL WITH 17in. OF BOULDER CORE FORM 5' TO 9'6in.	
<b>Stratum ID:</b> 6557000				<b>Top Depth(m):</b> 5.8	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bottom Depth(m):	7.7			Stratum Desc:	BEDROCK - FRACTURED LIMESTONE, WITH SHALE PARTINGS, FOSSILS, CARBONATE LENSES, MINOR MINERALIZATION
<a href="#">38</a>	1 of 1	SSE/277.4	71.8 / 1.97	42 Geneva Street, Ottawa ON	PINC
Incident ID:	2826564			Health Impact:	No
Incident No:	669742			Environment Impact:	No
Type:	FS-Pipeline Incident			Property Damage:	Yes
Status Code:	Pipeline Damage Reason Est			Service Interrupt:	Yes
Fuel Occurrence Tp:	Pipeline Strike			Enforce Policy:	Yes
Fuel Type:	Natural Gas			Public Relation:	No
Tank Status:	RC Established			Pipeline System:	Transmission pipeline
Task No:	3502235			Depth:	25
Spills Action Centre:				Pipe Material:	Plastic
Method Details:	E-mail			PSIG:	50
Fuel Category:	Natural Gas			Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:	9/7/2011 0:00			Regualtor Location:	Outside
Occurrence Start Date:	2012/01/16				
Operation Type:	Construction Site (pipeline strike)				
Pipeline Type:	Main Distribution Pipeline				
Regulator Type:	Service Regulator (up to 60 psi intake)				
Summary:	42 Geneva Street, Ottawa - 1 ¼" Pipeline Hit				
Reported By:	Stiles, Jeff - Enbridge				
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)				
Occurrence Desc:	Linestrike - Imprudent Excavation				
Damage Reason:	Excavation practices not sufficient				
Notes:	Linestrike - Imprudent Excavation				
<a href="#">39</a>	1 of 1	W/280.5	72.4 / 2.48	OTTAWA CITY BYRON AVE./ISLAND PARK DR. OTTAWA CITY ON	CA
Certificate #:	3-0904-93-				
Application Year:	93				
Issue Date:	8/13/1993				
Approval Type:	Municipal sewage				
Status:	Approved				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
<a href="#">40</a>	1 of 1	E/282.5	68.9 / -1.00	ON	BORE
Borehole ID:	847357			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status:	Decommissioned
Drill Method:	Boring			UTM Zone:	18
Easting:	442771			Northing:	5026967
Location Accuracy:				Orig. Ground Elev m:	72.6
Elev. Reliability Note:				DEM Ground Elev m:	71.1
Total Depth m:	8.1			Primary Name:	
Township:	NEPEAN			Concession:	CON 1 ON OTTAWA RIVER

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Lot: Completion Date: Primary Water Use:	LOT 34 29-JUL-1959			Municipality: Static Water Level: 2.8 Sec. Water Use:	
<b>--Details--</b>					
Stratum ID: Bottom Depth(m):	6556993 0.3			Top Depth(m): 0.0 Stratum Desc: BLACK TOPSOIL	
Stratum ID: Bottom Depth(m):	6556994 1.5			Top Depth(m): 0.3 Stratum Desc: BROWN SILTY - SANDY CLAY	
Stratum ID: Bottom Depth(m):	6556995 6.5			Top Depth(m): 1.5 Stratum Desc: GREY BOULDER TILL WITH BOULDERS UP TO 10in.	
Stratum ID: Bottom Depth(m):	6556996 8.1			Top Depth(m): 6.5 Stratum Desc: BEDROCK - FRACTURED LIMESTONE WITH SHALE PARTINGS, FOSSILS, CARBONATE REPLACEMENT AND MINOR MINERALIZATION	

<a href="#">41</a>	1 of 1	E/284.5	68.9 / -1.00	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	847356 Geotechnical/Geological Investigation Boring 442777   7.9 NEPEAN LOT 34 28-JUL-1959			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole Decommissioned 18 5026989 72.6 71.3  CON 1 ON OTTAWA RIVER  -999.9
<b>--Details--</b>					
Stratum ID: Bottom Depth(m):	6556989 0.2			Top Depth(m): 0.0 Stratum Desc: CRUSHED STONE	
Stratum ID: Bottom Depth(m):	6556990 1.2			Top Depth(m): 0.2 Stratum Desc: BROWN SANDY CLAY	
Stratum ID: Bottom Depth(m):	6556991 6.3			Top Depth(m): 1.2 Stratum Desc: GREY BOULDER TILL WITH BOULDERS UP TO 8in. IN DIAMETER	
Stratum ID: Bottom Depth(m):	6556992 7.9			Top Depth(m): 6.3 Stratum Desc: BEDROCK - FRACTURED LIMESTONE WITH SHALE PARTINGS, FOSSILS, AND CARBONATE FISSURES	

<a href="#">42</a>	1 of 1	NE/287.6	66.9 / -3.00	Enbridge Gas Distribution Inc. 32 Byron Ave Ottawa ON	SPL
Ref No: Site No: Incident Dt: Year: Incident Cause:	7407-AZEN9U NA 2018/06/04			Discharger Report: Material Group: Client Type: Sector Type: Source Type:	Corporation Miscellaneous Communal Pipeline/Components

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<b>Incident Event:</b>	Leak/Break			<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	35			<b>Site Name:</b>	residential site<UNOFFICIAL>
<b>Contaminant Name:</b>	NATURAL GAS (METHANE)			<b>Site Address:</b>	32 Byron Ave
<b>Contaminant Limit 1:</b>				<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>				<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>	1075			<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	0 other - see incident description			<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>				<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>				<b>Site Lot:</b>	
<b>Receiving Medium:</b>				<b>Site Conc:</b>	
<b>Receiving Env:</b>	Air			<b>Northing:</b>	5027347
<b>Health/Env Conseq:</b>	2 - Minor Environment			<b>Easting:</b>	442638
<b>MOE Response:</b>	No			<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>				<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	2018/06/04			<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>					
<b>Agency Involved:</b>					
<b>SAC Action Class:</b>	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill				
<b>Incident Reason:</b>	Operator/Human Error				
<b>Incident Summary:</b>	TSSA - Enbridge, 1 1/4" plastic main line damaged, made safe				

# Unplottable Summary

Total: **65** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Granville Avenue	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	ISLAND PARK DR.	OTTAWA CITY ON	
CA		Hinton, Julian and Warren Avenue	Ottawa ON	
CA		Hinton, Julian and Warren Avenue	Ottawa ON	
CA	CITY	BYRON AVE.	OTTAWA ON	
CA		Granville Avenue	Ottawa ON	
CA	Bourke Family Development Inc.	Byron Ave Registered Plan No. 204	Ottawa ON	
CA	OTTAWA CITY	BYRON AVENUE	OTTAWA CITY ON	
CA	Ottawa-Carleton District School Board	Part of Lot 10, Concession 8, Geographic Township of Cumberland	Ottawa ON	
CA	Petro-Canada		Ottawa ON	
CA	Ottawa-Carleton District School Board	Part of Lot 10, Concession 8, Geographic Township of Cumberland	Ottawa ON	
CA	OTTAWA CITY	HELENA ST./HARMER AVE.S.	OTTAWA CITY ON	
CA	Ottawa-Carleton District School Board		Ottawa ON	
CA	City of Ottawa	Harmer Avenue	Ottawa ON	
ECA	Ultramar Ltd.	Part 1, Reference Plan 4R-23561	Ottawa ON	H3A 3L3
ECA	City of Ottawa	Iona St (from Hilson Avenue to Island Park Drive)	Ottawa ON	K2G 6J8
ECA	City of Ottawa	(Highway 417 to 170 m north of Baseline Road)	Ottawa ON	K1P 1J1



ECA	City of Ottawa	Granville Ave from 35m. North of Byron Ave. to Wellington St.	Ottawa ON	K1N 5A1
ECA	Petro-Canada Inc.		Ottawa ON	L6L 6N5
ECA	City of Ottawa	Granville Ave from Byron Avenue to Wellington Street	Ottawa ON	K1N 5A1
EHS		Highway 417, CN Rail	Ottawa ON	
EHS		Hwy 417	Ottawa ON	
GEN	Ecoplans Limited	Highway 417 West onramp accessed off Moodie Drive	Ottawa ON	K2H 8G3
GEN	PITTS ENGINEERING CONSTRUCTION	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	PITTS (OUT OF BUS) 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
GEN	PITTS ENGINEERING CONSTRUCTION 31-354	BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417	OTTAWA-CARLETON ON	K1G 3H6
RST	ULTRAMAR LTÉE	OTTAWA	OTTAWA ON	
SPL	Transport BUSA<UNOFFICIAL>	Hwy 417 East Bound, km 66	Ottawa ON	
SPL	PETRO-CANADA	SERVICE STATION	OTTAWA CITY ON	
SPL		Hwy 417 at Hurdman Bridge, SW Corner	Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	HWY 417 at Vars Bridge	Ottawa ON	
SPL		Hwy 417 to the corner of Rideau and King Edward	Ottawa ON	
SPL	Ministry of Transportation	hwy 417 eastbound at MM 131 at hwy 416 overpass	Ottawa ON	
SPL		417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>	Ottawa ON	
SPL	Petro Canada Fuels<UNOFFICIAL>	West of Eagleson	Ottawa ON	
SPL	Enbridge Gas Distribution Inc.	Iona Street (at Kensington Ave.)	Ottawa ON	
SPL		Highway 417 near Nicholas Street	Ottawa ON	
SPL		417 eastbound, east of exit 104	Ottawa ON	
SPL	Penske Truck Leasing Canada	Hwy 417 east, at exit 88, Vars	Ottawa ON	

Inc.

SPL		central transit way adjacent to hwy 417 between nicholas ave and lees ave	Ottawa ON
SPL	Drain-All Ltd.	Hwy 417 Westbound near Carling off-ramp	Ottawa ON
SPL	Glenview Iron and Steel Ltd.<UNOFFICIAL>	Hwy 417 - Woodroffe W. Bnd, On-Ramp	Ottawa ON
SPL	Purolator Courier Ltd.	Hwy 417 Eastbound @ Mile Marker 180	Ottawa ON
SPL	City of Ottawa	Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit	Ottawa ON
SPL	Unknown<UNOFFICIAL>	Hwy 417, near Queen Elizabeth Dr	Ottawa ON
SPL		Hwy 417 Under Overpass @ Castlefrank Road	Ottawa ON
SPL	Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc	Highway 417 at Hurdman Bridge	Ottawa ON
SPL	Unisource Canada, Inc.	HWY 417-West near Km 117 on the Vanier Prk Way,	Ottawa ON
SPL	Ottawa LRT <UNOFFICIAL>	Hwy 417 near Lees Avenue	Ottawa ON
SPL	Waste Management Inc.	HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL>	Ottawa ON
SPL	S. 21(1)(f)	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>	Ottawa ON
SPL	Ferguson Fuels<UNOFFICIAL>	HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL>	Ottawa ON
SPL	LECLAIR FUELS LTD.	HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL		HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY. 417 MOTOR VEHICLE (OPERATING FLUID)	OTTAWA ON
SPL	TRANSPORT TRUCK	HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Sita Ontario Inc.	Highway 417(westbound) and Moodie Drive ramp	Ottawa ON
SPL	CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>	Ottawa ON
SPL	Wilway Transport<UNOFFICIAL>	Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL>	Ottawa ON

SPL	TRANSPORT TRUCK	HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL		HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL>	Ottawa ON
SPL	TRANSPORT TRUCK	HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON
SPL	Waste Services Inc.	Highway 417 East bound West of Terry Fox	Ottawa ON
SPL	Thermal Shell	Highway 417 West of Eagleson Rd	Ottawa ON
SPL	City of Ottawa	Highway 417	Ottawa ON

# Unplottable Report

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**Site:** *Granville Avenue Ottawa ON* **Database:** *CA*

**Certificate #:** 0627-4V9NN6  
**Application Year:** 01  
**Issue Date:** 3/28/01  
**Approval Type:** Municipal & Private water  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Corporation of the City of Ottawa  
**Client Address:** 111 Sussex Drive, 7th Floor  
**Client City:** Ottawa  
**Client Postal Code:** K1N 5A1  
**Project Description:** Construction of watermain: Granville Avenue from Byron Avenue to Wellington Street.  
**Contaminants:**  
**Emission Control:**

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**Site:** *R.M. OF OTTAWA-CARLETON  
ISLAND PARK DR. OTTAWA CITY ON* **Database:** *CA*

**Certificate #:** 7-2075-88-  
**Application Year:** 88  
**Issue Date:** 1/18/1989  
**Approval Type:** Municipal water  
**Status:** Approved in 1989  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** *Hinton, Julian and Warren Avenue Ottawa ON* **Database:** *CA*

**Certificate #:** 8527-4X8SK6  
**Application Year:** 01  
**Issue Date:** 5/31/01  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Corporation of the City of Ottawa  
**Client Address:** 111 Sussex Drive, 7th Floor  
**Client City:** Ottawa  
**Client Postal Code:** K1N 5A1  
**Project Description:** Storm and sanitary sewers to be constructed on Julian and Warren Avenue  
**Contaminants:**  
**Emission Control:**

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**Site:** *Hinton, Julian and Warren Avenue Ottawa ON* **Database:** *CA*

**Certificate #:** 7541-4X8S5V

**Application Year:** 01  
**Issue Date:** 5/31/01  
**Approval Type:** Municipal & Private water  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Corporation of the City of Ottawa  
**Client Address:** 111 Sussex Drive, 7th Floor  
**Client City:** Ottawa  
**Client Postal Code:** K1N 5A1  
**Project Description:** Watermains to be constructed on Hinton, Julian and Warren Avenue  
**Contaminants:**  
**Emission Control:**

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**Site:** CITY  
BYRON AVE. OTTAWA ON

**Database:**  
CA

**Certificate #:** 3-0302-85-006  
**Application Year:** 85  
**Issue Date:** 4/22/85  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** Granville Avenue Ottawa ON

**Database:**  
CA

**Certificate #:** 3858-4V9NJN  
**Application Year:** 01  
**Issue Date:** 3/28/01  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name:** Corporation of the City of Ottawa  
**Client Address:** 111 Sussex Drive, 7th Floor  
**Client City:** Ottawa  
**Client Postal Code:** K1N 5A1  
**Project Description:** Construction of storm/sanitary sewers: Granville Avenue from 35m. North of Byron Ave. to Wellington St.  
**Contaminants:**  
**Emission Control:**

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**Site:** Bourke Family Development Inc.  
Byron Ave Registered Plan No. 204 Ottawa ON

**Database:**  
CA

**Certificate #:** 3911-7BKMY9  
**Application Year:** 2008  
**Issue Date:** 2/7/2008  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** OTTAWA CITY  
BYRON AVENUE OTTAWA CITY ON

**Database:**  
CA

**Certificate #:** 3-1320-88-  
**Application Year:** 88  
**Issue Date:** 8/5/1988  
**Approval Type:** Municipal sewage  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** Ottawa-Carleton District School Board  
Part of Lot 10, Concession 8, Geographic Township of Cumberland Ottawa ON

**Database:**  
CA

**Certificate #:** 2170-6ARMNA  
**Application Year:** 2005  
**Issue Date:** 3/31/2005  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** Petro-Canada  
Ottawa ON

**Database:**  
CA

**Certificate #:** 5607-79YMZ8  
**Application Year:** 2008  
**Issue Date:** 2/12/2008  
**Approval Type:** Industrial Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**  
**Client City:**  
**Client Postal Code:**  
**Project Description:**  
**Contaminants:**  
**Emission Control:**

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**Site:** Ottawa-Carleton District School Board  
Part of Lot 10, Concession 8, Geographic Township of Cumberland Ottawa ON

**Database:**  
CA

**Certificate #:** 5281-6RNKKS  
**Application Year:** 2006  
**Issue Date:** 11/16/2006  
**Approval Type:** Municipal and Private Sewage Works  
**Status:** Approved  
**Application Type:**  
**Client Name:**  
**Client Address:**



Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** OTTAWA CITY  
HELENA ST./HARMER AVE.S. OTTAWA CITY ON

**Database:**  
CA

Certificate #: 3-0507-95-  
Application Year: 95  
Issue Date: 5/18/1995  
Approval Type: Municipal sewage  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** Ottawa-Carleton District School Board  
Ottawa ON

**Database:**  
CA

Certificate #: 3668-7ZNLYJ  
Application Year: 2010  
Issue Date: 2/11/2010  
Approval Type: Air  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** City of Ottawa  
Harmer Avenue Ottawa ON

**Database:**  
CA

Certificate #: 9428-73YNYP  
Application Year: 2007  
Issue Date: 6/17/2007  
Approval Type: Municipal and Private Sewage Works  
Status: Approved  
Application Type:  
Client Name:  
Client Address:  
Client City:  
Client Postal Code:  
Project Description:  
Contaminants:  
Emission Control:

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**Site:** Ultramar Ltd.  
Part 1, Reference Plan 4R-23561 Ottawa ON H3A 3L3

**Database:**  
ECA

Approval No: 1928-8W2Q6W  
Approval Date: 2012-07-10

SWP Area Name:  
MOE District:

**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**Approval Type:** ECA-INDUSTRIAL SEWAGE WORKS  
**Project Type:** INDUSTRIAL SEWAGE WORKS  
**Address:** Part 1, Reference Plan 4R-23561  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/2244-8RJQ9S-14.pdf>

**City:** Ottawa  
**Longitude:**  
**Latitude:**

**Site:** **City of Ottawa**  
**Iona St (from Hilson Avenue to Island Park Drive) Ottawa ON K2G 6J8**

**Database:**  
**ECA**

**Approval No:** 3539-ASWK3H  
**Approval Date:** 2017-11-14  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** Iona St (from Hilson Avenue to Island Park Drive)  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/7145-ASHRKU-14.pdf>

**SWP Area Name:**  
**MOE District:**  
**City:** Ottawa  
**Longitude:**  
**Latitude:**

**Site:** **City of Ottawa**  
**(Highway 417 to 170 m north of Baseline Road) Ottawa ON K1P 1J1**

**Database:**  
**ECA**

**Approval No:** 5651-8UAQ6Q  
**Approval Date:** 2012-05-22  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** (Highway 417 to 170 m north of Baseline Road)  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/5034-8U6NTS-14.pdf>

**SWP Area Name:**  
**MOE District:**  
**City:** Ottawa  
**Longitude:**  
**Latitude:**

**Site:** **City of Ottawa**  
**Granville Ave from 35m. North of Byron Ave. to Wellington St. Ottawa ON K1N 5A1**

**Database:**  
**ECA**

**Approval No:** 3858-4V9NJN  
**Approval Date:** 2001-03-28  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**Approval Type:** ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Project Type:** MUNICIPAL AND PRIVATE SEWAGE WORKS  
**Address:** Granville Ave from 35m. North of Byron Ave. to Wellington St.  
**Full Address:**  
**Full PDF Link:** <https://www.accessenvironment.ene.gov.on.ca/instruments/2408-4UTTC4-14.pdf>

**SWP Area Name:**  
**MOE District:**  
**City:** Ottawa  
**Longitude:**  
**Latitude:**

**Site:** **Petro-Canada Inc.**  
**Ottawa ON L6L 6N5**

**Database:**  
**ECA**

**Approval No:** 4810-4UMJP8  
**Approval Date:** 2001-03-12  
**Status:** Approved  
**Record Type:** ECA  
**Link Source:** IDS  
**Approval Type:** ECA-INDUSTRIAL SEWAGE WORKS  
**Project Type:** INDUSTRIAL SEWAGE WORKS  
**Address:**

**SWP Area Name:**  
**MOE District:**  
**City:** Ottawa  
**Longitude:**  
**Latitude:**

Full Address:

Full PDF Link:

<https://www.accessenvironment.ene.gov.on.ca/instruments/7825-4UCP9D-14.pdf>

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**Site:** City of Ottawa  
Granville Ave from Byron Avenue to Wellington Street Ottawa ON K1N 5A1

**Database:**  
ECA

Approval No: 0627-4V9NN6 SWP Area Name:  
Approval Date: 2001-03-28 MOE District:  
Status: Approved City:  
Record Type: ECA Longitude:  
Link Source: IDS Latitude:  
Approval Type: ECA-Municipal and Private Water Works  
Project Type: Municipal and Private Water Works  
Address: Granville Ave from Byron Avenue to Wellington Street  
Full Address:  
Full PDF Link:

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**Site:** Highway 417, CN Rail Ottawa ON

**Database:**  
EHS

Order ID: 62037 Date Received: 10/17/2005  
Order No: 20051017044 Lot/Building Size:  
Customer ID: 44527 Municipality:  
Company ID: 33445 Client Prov/State: QC  
Status: C Search Radius (km): 0.25  
Report Code: 1CAN Large Radius: 2  
Report Type: Site Report X:  
Report Date: 10/18/2005 Y:  
Report Requested by: SM Environnement  
Nearest Intersection:  
Previous Site Name:  
Additional Info Ordered:

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**Site:** Hwy 417 Ottawa ON

**Database:**  
EHS

Order ID: 207153 Date Received: 5/9/2012  
Order No: 20120509053 Lot/Building Size:  
Customer ID: 58127 Municipality:  
Company ID: 50 Client Prov/State: ON  
Status: C Search Radius (km): 0.25  
Report Code: 4CAN Large Radius: 0.25  
Report Type: Custom Report X: -75.670099  
Report Date: 5/16/2012 Y: 1  
Report Requested by: Golder Associates Ltd.  
Nearest Intersection:  
Previous Site Name:  
Additional Info Ordered:

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**Site:** Ecoplans Limited  
Highway 417 West onramp accessed off Moodie Drive Ottawa ON K2H 8G3

**Database:**  
GEN

Generator No.: ON3922236 PO Box No.:  
Status: Country:  
Approval Years: 2010 Choice of Contact:  
Contam. Facility: Co Admin:  
MHSW Facility: Phone No. Admin:  
SIC Code: 541620  
SIC Description: Environmental Consulting Services

--Details--

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

**Site:** PITTS ENGINEERING CONSTRUCTION  
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-  
CARLETON ON K1G 3H6

**Database:**  
GEN

<b>Generator No.:</b>	ON0760802	<b>PO Box No.:</b>
<b>Status:</b>		<b>Country:</b>
<b>Approval Years:</b>	86,87,88,89,90	<b>Choice of Contact:</b>
<b>Contam. Facility:</b>		<b>Co Admin:</b>
<b>MHSW Facility:</b>		<b>Phone No. Admin:</b>
<b>SIC Code:</b>	4121	
<b>SIC Description:</b>	HIGHWAYS, STR., ETC.	

**--Details--**

**Waste Code:** 252  
**Waste Description:** WASTE OILS & LUBRICANTS

**Site:** PITTS (OUT OF BUS) 31-354  
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-  
CARLETON ON K1G 3H6

**Database:**  
GEN

<b>Generator No.:</b>	ON0760802	<b>PO Box No.:</b>
<b>Status:</b>		<b>Country:</b>
<b>Approval Years:</b>	97,98	<b>Choice of Contact:</b>
<b>Contam. Facility:</b>		<b>Co Admin:</b>
<b>MHSW Facility:</b>		<b>Phone No. Admin:</b>
<b>SIC Code:</b>	4121	
<b>SIC Description:</b>	HIGHWAYS, STR., ETC.	

**--Details--**

**Waste Code:** 252  
**Waste Description:** WASTE OILS & LUBRICANTS

**Site:** PITTS ENGINEERING CONSTRUCTION 31-354  
BANISTER CONT. LTD. C/O BOX 8008 OTTAWA TERMINAL HURDMAN BRIDGE AT HWY. 417 OTTAWA-  
CARLETON ON K1G 3H6

**Database:**  
GEN

<b>Generator No.:</b>	ON0760802	<b>PO Box No.:</b>
<b>Status:</b>		<b>Country:</b>
<b>Approval Years:</b>	92,93,94,95,96	<b>Choice of Contact:</b>
<b>Contam. Facility:</b>		<b>Co Admin:</b>
<b>MHSW Facility:</b>		<b>Phone No. Admin:</b>
<b>SIC Code:</b>	4121	
<b>SIC Description:</b>	HIGHWAYS, STR., ETC.	

**--Details--**

**Waste Code:** 252  
**Waste Description:** WASTE OILS & LUBRICANTS

**Site:** ULTRAMAR LTÉE  
OTTAWA OTTAWA ON

**Database:**  
RST

**Headcode:** 924800  
**Headcode Desc:** Oils-Fuel  
**Phone:** 6137275200  
**List Name:**  
**Description:**

**Site:** Transport BUSA<UNOFFICIAL>  
Hwy 417 East Bound, km 66 Ottawa ON

**Database:**  
SPL

**Ref No:** 0545-9ZJKM4  
**Site No:** NA  
**Incident Dt:** 8/19/2015  
**Year:**  
**Incident Cause:**  
**Incident Event:**  
**Contaminant Code:** 13  
**Contaminant Name:** DIESEL FUEL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 300 L  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:**  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:** No  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 8/19/2015  
**Dt Document Closed:** 10/9/2015  
**Agency Involved:**  
**SAC Action Class:** Land Spills  
**Incident Reason:** Equipment Failure  
**Incident Summary:** HWY 417 TT - 300L fuel to ditch.

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Miscellaneous Communal  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** Fuel Spill<UNOFFICIAL>  
**Site Address:** Hwy 417 East Bound, km 66  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** PETRO-CANADA  
SERVICE STATION OTTAWA CITY ON

**Database:**  
SPL

**Ref No:** 30833  
**Site No:**  
**Incident Dt:** 2/12/1990  
**Year:**  
**Incident Cause:** OTHER CONTAINER LEAK  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:**  
**Environment Impact:** POSSIBLE  
**Nature of Impact:** Soil contamination  
**Receiving Medium:** LAND  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 2/12/1990  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:**  
**Incident Reason:** CORROSION  
**Incident Summary:** PETRO CANADA SERVICE STN.FURANCE OIL LEAK.

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:**  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:**  
**Site Address:**  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** 20101  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** Hwy 417 at Hurdman Bridge, SW Corner Ottawa ON

**Database:**  
SPL

**Ref No:** 6747-9RDR6G  
**Site No:** NA  
**Incident Dt:** 2014/12/01  
**Year:**  
**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Unknown / N/A

<b>Incident Cause:</b>	Unknown / N/A	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	Ottawa LRT Project <UNOFFICIAL>
<b>Contaminant Name:</b>	HYDROCARBON LIGHT	<b>Site Address:</b>	Hwy 417 at Hurdman Bridge, SW Corner
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	4 L	<b>Site Region:</b>	
<b>Environment Impact:</b>		<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Land	<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	5029450
<b>Health/Env Conseq:</b>		<b>Easting:</b>	448057
<b>MOE Response:</b>	N	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	2014/12/01	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Land Spills		
<b>Incident Reason:</b>	Unknown / N/A		
<b>Incident Summary:</b>	Ottawa LRT Project - 4L petroleum to grd, cleaning		

**Site:** Enbridge Gas Distribution Inc.  
HWY 417 at Vars Bridge Ottawa ON

**Database:**  
SPL

<b>Ref No:</b>	6748-7X7R4U	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>		<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>		<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	46	<b>Site Name:</b>	HWY 417 at Vars Bridge<UNOFFICIAL>
<b>Contaminant Name:</b>	USED MOTOR OIL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	30 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	No Field Response	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	10/26/2009	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>	1/8/2010		
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Highway Spills (usually highway accidents)		
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	Motor Vehicle-30 L Used Motor Oil to Hwy 417.		

**Site:** Hwy 417 to the corner of Rideau and King Edward Ottawa ON

**Database:**  
SPL

<b>Ref No:</b>	5750-74BMWG	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>		<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Transport Truck
<b>Incident Cause:</b>	Unknown	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	15	<b>Site Name:</b>	Oil Spill on the road<UNOFFICIAL>
<b>Contaminant Name:</b>	OIL (PETROLEUM BASED, NOT SPECIFIED)	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	50 L	<b>Site Region:</b>	



<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Other Impact(s)	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	No Field Response	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	6/19/2007	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>	12/8/2007		
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	Unknown - Reason not determined		
<b>Incident Summary:</b>	UnknTransport Truck: 50L Oil to Road, Cln		

**Site:** Ministry of Transportation  
hwy 417 eastbound at MM 131 at hwy 416 overpass Ottawa ON

**Database:**  
**SPL**

<b>Ref No:</b>	8446-9ZQMXL	<b>Discharger Report:</b>	
<b>Site No:</b>	NA	<b>Material Group:</b>	
<b>Incident Dt:</b>	8/25/2015	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Miscellaneous Industrial
<b>Incident Cause:</b>		<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	15	<b>Site Name:</b>	TT rollover<UNOFFICIAL>
<b>Contaminant Name:</b>	HYDRAULIC OIL	<b>Site Address:</b>	hwy 417 eastbound at MM 131 at hwy 416 overpass
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	0 gal-lmp	<b>Site Region:</b>	
<b>Environment Impact:</b>		<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	5021331
<b>Health/Env Conseq:</b>		<b>Easting:</b>	435872
<b>MOE Response:</b>	No	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	8/25/2015	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>	8/26/2015		
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Highway Spills (usually highway accidents)		
<b>Incident Reason:</b>	Operator/Human Error		
<b>Incident Summary:</b>	TT rollover, dsl spill to hwy 417		

**Site:** 417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL> Ottawa ON

**Database:**  
**SPL**

<b>Ref No:</b>	1151-5R4LZR	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	9/5/2003	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Other
<b>Incident Cause:</b>	Other Discharges	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	417 EASTBOUND - NICHOLAS ON RAMP<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	100 L	<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	

**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 9/5/2003  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:**  
**Incident Reason:** Other - Reason not otherwise defined  
**Incident Summary:** Hwy 417 - diesel spill

**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **Petro Canada Fuels<UNOFFICIAL>**  
**West of Eagleson Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 7820-9Q5NJP  
**Site No:** NA  
**Incident Dt:** 2014/10/22  
**Year:**  
**Incident Cause:** Unknown / N/A  
**Incident Event:**  
**Contaminant Code:** 13  
**Contaminant Name:** DIESEL FUEL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 50 L  
**Environment Impact:** Not Anticipated  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:**  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:** No Field Response  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 2014/10/22  
**Dt Document Closed:** 2014/10/24  
**Agency Involved:**  
**SAC Action Class:** Highway Spills (usually highway accidents)  
**Incident Reason:** Unknown / N/A  
**Incident Summary:** Petro Canada Fuels, 50L Diesel to rd, Cln

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Truck - Tanker  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** Fallowfield Rd<UNOFFICIAL>  
**Site Address:** West of Eagleson  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **Enbridge Gas Distribution Inc.**  
**Iona Street (at Kensington Ave.) Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 3377-B2SPUR  
**Site No:** NA  
**Incident Dt:** 2018/07/18  
**Year:**  
**Incident Cause:**  
**Incident Event:** Leak/Break  
**Contaminant Code:** 35  
**Contaminant Name:** NATURAL GAS (METHANE)  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:** 1075  
**Contaminant Qty:** 0 other - see incident description  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:**  
**Receiving Env:** Air  
**Health/Env Conseq:** 2 - Minor Environment  
**MOE Response:** No  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 2018/07/18  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill  
**Incident Reason:** Operator/Human Error  
**Incident Summary:** TSSA FSB: 2" plastic IP nat gas main line strike to atm., made safe

**Discharger Report:**  
**Material Group:**  
**Client Type:** Corporation  
**Sector Type:** Miscellaneous Industrial  
**Source Type:** Pipeline/Components  
**Nearest Watercourse:**  
**Site Name:** Residential<UNOFFICIAL>  
**Site Address:** Iona Street (at Kensington Ave.)  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:** Eastern  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

<b>Site:</b> Highway 417 near Nicholas Street Ottawa ON		<b>Database:</b> SPL
<b>Ref No:</b>	3166-AMVJM4	<b>Discharger Report:</b>
<b>Site No:</b>		<b>Material Group:</b>
<b>Incident Dt:</b>	5/30/2017	<b>Client Type:</b>
<b>Year:</b>		<b>Sector Type:</b> Unknown / N/A
<b>Incident Cause:</b>		<b>Source Type:</b> Truck - Transport/Hauling
<b>Incident Event:</b>	Collision/Accident	<b>Nearest Watercourse:</b>
<b>Contaminant Code:</b>	35	<b>Site Name:</b> TT Accident <UNOFFICIAL>
<b>Contaminant Name:</b>	NATURAL GAS (REFRIGERATED LIQUID)	<b>Site Address:</b> Highway 417 near Nicholas Street
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b> Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>
<b>Contaminant UN No 1:</b>	1972	<b>Site Postal Code:</b>
<b>Contaminant Qty:</b>	0 other - see incident description	<b>Site Region:</b> Eastern
<b>Environment Impact:</b>		<b>Site Municipality:</b> Ottawa
<b>Nature of Impact:</b>		<b>Site Lot:</b>
<b>Receiving Medium:</b>		<b>Site Conc:</b>
<b>Receiving Env:</b>	Air; Land	<b>Northing:</b>
<b>Health/Env Conseq:</b>	2 - Minor Environment	<b>Easting:</b>
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>
<b>MOE Reported Dt:</b>	5/31/2017	<b>Site Map Datum:</b>
<b>Dt Document Closed:</b>		
<b>Agency Involved:</b>		
<b>SAC Action Class:</b>		
<b>Incident Reason:</b>	Unknown / N/A	
<b>Incident Summary:</b>	Canutec emailed report: TT accident, LNG to ditch	

<b>Site:</b> 417 eastbound, east of exit 104 Ottawa ON		<b>Database:</b> SPL
<b>Ref No:</b>	2172-9F4M4N	<b>Discharger Report:</b>
<b>Site No:</b>		<b>Material Group:</b>
<b>Incident Dt:</b>	2014/01/06	<b>Client Type:</b>
<b>Year:</b>		<b>Sector Type:</b> Motor Vehicle
<b>Incident Cause:</b>	Leak/Break	<b>Source Type:</b>
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>
<b>Contaminant Code:</b>	13	<b>Site Name:</b> MVA<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b> 417 eastbound, east of exit 104
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>
<b>Contaminant Qty:</b>	100 L	<b>Site Region:</b>
<b>Environment Impact:</b>	Confirmed	<b>Site Municipality:</b> Ottawa
<b>Nature of Impact:</b>	Soil Contamination	<b>Site Lot:</b>
<b>Receiving Medium:</b>		<b>Site Conc:</b>
<b>Receiving Env:</b>		<b>Northing:</b>
<b>Health/Env Conseq:</b>		<b>Easting:</b>
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>
<b>MOE Reported Dt:</b>	2014/01/06	<b>Site Map Datum:</b>
<b>Dt Document Closed:</b>		
<b>Agency Involved:</b>		
<b>SAC Action Class:</b>	Land Spills	
<b>Incident Reason:</b>	Weather Conditions	
<b>Incident Summary:</b>	Day & Ross: diesel on Hwy 417 exit 104	

<b>Site:</b> Penske Truck Leasing Canada Inc. Hwy 417 east, at exit 88, Vars Ottawa ON		<b>Database:</b> SPL
<b>Ref No:</b>	5218-5LGE4L	<b>Discharger Report:</b>
<b>Site No:</b>		<b>Material Group:</b> Oil
<b>Incident Dt:</b>	4/10/2003	<b>Client Type:</b>

<b>Year:</b>		<b>Sector Type:</b>	Transport Truck
<b>Incident Cause:</b>		<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	MVA SITE<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	100 L	<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Possible	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	4/10/2003	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Spill to Highway (Accident)		
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	Summit Food: truck diesel to shoulder. contained		

**Site:** *central transit way adjacent to hwy 417 between nicholas ave and lees ave* **Ottawa ON** **Database:** **SPL**

<b>Ref No:</b>	8444-9FTKCZ	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	2014/01/29	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Unknown / N/A
<b>Incident Cause:</b>	Unknown / N/A	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	99	<b>Site Name:</b>	Construction job site<UNOFFICIAL>
<b>Contaminant Name:</b>	WATER	<b>Site Address:</b>	central transit way adjacent to hwy 417 between nicholas ave and lees ave
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	200 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Confirmed	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Surface Water Pollution	<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	Referral to others	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	2014/01/29	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Land Spills		
<b>Incident Reason:</b>	Unknown / N/A		
<b>Incident Summary:</b>	RW Tomlinson: Dewatering to CB,		

**Site:** *Drain-All Ltd.* **Hwy 417 Westbound near Carling off-ramp** **Ottawa ON** **Database:** **SPL**

<b>Ref No:</b>	6127-8K6T47	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	7/27/2011	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Motor Vehicle
<b>Incident Cause:</b>	Pipe Or Hose Leak	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	15	<b>Site Name:</b>	Queensway Hwy 417<UNOFFICIAL>
<b>Contaminant Name:</b>	MOTOR OIL	<b>Site Address:</b>	Hwy 417 Westbound near Carling off-ramp
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	

<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	10 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	No Field Response	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	7/27/2011	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Highway Spills (usually highway accidents)		
<b>Incident Reason:</b>	Equipment/Vehicles		
<b>Incident Summary:</b>	10 L's of motor oil to Queensway, cleaned		

**Site:** **Glenview Iron and Steel Ltd.<UNOFFICIAL>**  
**Hwy 417 - Woodroffe W. Bnd, On-Ramp Ottawa ON**

**Database:**  
**SPL**

<b>Ref No:</b>	0000-5NA2HN	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	6/6/2003	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Transport Truck
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	HWY 417 - WOODROFFE W. BND, ON-RAMP<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	50 L	<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	6/6/2003	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Spill to Highway (Accident); Spill to Land		
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	Ottawa Hwy 417 - MVA, diesel to ditch		

**Site:** **Purolator Courier Ltd.**  
**Hwy 417 Eastbound @ Mile Marker 180 Ottawa ON**

**Database:**  
**SPL**

<b>Ref No:</b>	8553-8S9HPE	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	10-MAR-12	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	Transport Truck Accident<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	Hwy 417 Eastbound @ Mile Marker 180
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Other Impact(s); Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Sewage - Municipal/Private and Commercial	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	

**MOE Response:** No Field Response  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 10-MAR-12  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Land Spills  
**Incident Reason:** Spill  
**Incident Summary:** TT Accident: 300L to grnd

**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **City of Ottawa**  
**Hwy 417 West bound, between the Carling Ave Exit and the Maitland Exit Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 5074-6J2RLX  
**Site No:**  
**Incident Dt:** 11/11/2005  
**Year:**  
**Incident Cause:** Pipe Or Hose Leak  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:** ETHYLENE GLYCOL (ANTIFREEZE)  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:**  
**Environment Impact:** Confirmed  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:** Land  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 11/11/2005  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Land Spills  
**Incident Reason:** Unknown - Reason not determined  
**Incident Summary:** OC Transpo (Ottawa): 20L antifreeze to grnd, clng

**Discharger Report:** 0  
**Material Group:** Chemical  
**Client Type:**  
**Sector Type:** Other Motor Vehicle  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** Bus # 6070 antifreeze leak<UNOFFICIAL>  
**Site Address:**  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **Unknown<UNOFFICIAL>**  
**Hwy 417, near Queen Elizabeth Dr Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 4563-B32N6F  
**Site No:** NA  
**Incident Dt:** 2018/07/26  
**Year:**  
**Incident Cause:**  
**Incident Event:** Collision/Accident  
**Contaminant Code:** 15  
**Contaminant Name:** HYDRAULIC OIL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:** n/a  
**Contaminant UN No 1:** n/a  
**Contaminant Qty:** 0 other - see incident description  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:**  
**Receiving Env:** Land; Source Water Zone  
**Health/Env Conseq:** 0 - No Impact  
**MOE Response:** Yes  
**Dt MOE Arvl on Scn:** 2018/07/26  
**MOE Reported Dt:** 2018/07/26  
**Dt Document Closed:** 2018/07/31  
**Agency Involved:**  
**SAC Action Class:** Highway Spills (usually highway accidents)  
**Incident Reason:** Operator/Human Error  
**Incident Summary:** MVA; hydraulic oil to CB on hwy 417; unknown containment/cleanup

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Miscellaneous Industrial  
**Source Type:** Motor Vehicle  
**Nearest Watercourse:**  
**Site Name:** CB & asphalt<UNOFFICIAL>  
**Site Address:** Hwy 417, near Queen Elizabeth Dr  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:** Eastern  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**



**Site:** Hwy 417 Under Overpass @ Castlefrank Road Ottawa ON **Database:** SPL

<b>Ref No:</b>	7705-67XN2B	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	12/22/2004	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Transport Truck
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	MVA<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Confirmed	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Groundwater Pollution; Other Impact(s); Soil Contamination; Surface Water Pollution	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land & Water	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	12/23/2004	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	Weather		
<b>Incident Summary:</b>	MVA: 200L diesel to Ditch		

**Site:** Tomlinson Environmental Services Ltd.; SNC-Lavalin Constructors (Pacific) Inc Highway 417 at Hurdman Bridge Ottawa ON **Database:** SPL

<b>Ref No:</b>	1322-9K2JFE	<b>Discharger Report:</b>	
<b>Site No:</b>	NA	<b>Material Group:</b>	
<b>Incident Dt:</b>	2014/05/07	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Drilling Operation
<b>Incident Cause:</b>	Leak/Break	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	41	<b>Site Name:</b>	OLRT: Highway 417 @ Hurdman Bridge<UNOFFICIAL>
<b>Contaminant Name:</b>	WATER/SEDIMENT	<b>Site Address:</b>	Highway 417 at Hurdman Bridge
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	5 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Surface Water Pollution	<b>Site Lot:</b>	
<b>Receiving Medium:</b>		<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	No Field Response	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	2014/05/12	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Watercourse Spills		
<b>Incident Reason:</b>	Unknown / N/A		
<b>Incident Summary:</b>	OLRT: Spill of Concrete Drilling Fluid to Hwy 417 CB		

**Site:** Unisource Canada, Inc. HWY 417-West near Km 117 on the Vanier Prk Way, Ottawa ON **Database:** SPL

**Ref No:** 5066-7B6KDT  
**Site No:**  
**Incident Dt:**  
**Year:**  
**Incident Cause:** Other Transport Accident  
**Incident Event:**  
**Contaminant Code:** 13  
**Contaminant Name:** DIESEL FUEL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 250 L  
**Environment Impact:** Not Anticipated  
**Nature of Impact:**  
**Receiving Medium:**  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:** No Field Response  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 1/24/2008  
**Dt Document Closed:** 2/22/2008  
**Agency Involved:**  
**SAC Action Class:** Highway Spills (usually highway accidents)  
**Incident Reason:** Unknown - Reason not determined  
**Incident Summary:** TT MVA- >250L diesel HWY 417 W/ Drain-all to clean up spill.

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Transport Truck  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** MVA of a 10 ton truck<UNOFFICIAL>  
**Site Address:**  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **Ottawa LRT <UNOFFICIAL>**  
**Hwy 417 near Lees Avenue Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 0640-9MYHCJ  
**Site No:** NA  
**Incident Dt:** 2014/08/07  
**Year:**  
**Incident Cause:** Leak/Break  
**Incident Event:**  
**Contaminant Code:** 15  
**Contaminant Name:** HYDRAULIC OIL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 15 L  
**Environment Impact:** Not Anticipated  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:**  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 2014/08/14  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Land Spills  
**Incident Reason:** Equipment Failure  
**Incident Summary:** Ottawa LRT: late report of hyd oil spill to grnd

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Pipeline/Components  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** highway construction site Hwy 417 at Hurdman Bridge<UNOFFICIAL>  
**Site Address:** Hwy 417 near Lees Avenue  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** **Waste Management Inc.**  
**HWY 417 EASTBOUND, ST. LAURENT EXIT (115)<UNOFFICIAL> Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 8781-6L7M7T  
**Site No:**  
**Incident Dt:** 1/19/2006  
**Year:**  
**Incident Cause:**  
**Incident Event:**  
**Contaminant Code:** 15

**Discharger Report:**  
**Material Group:** Oils  
**Client Type:**  
**Sector Type:** Other Motor Vehicle  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:**

<b>Contaminant Name:</b>	HYDRAULIC OIL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	200 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	1/19/2006	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	HWY 417: garbage truck fire, 45 gal hyd. oil to road		

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**Site:** S. 21(1)(f) **Database:** SPL  
Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL> Ottawa ON

<b>Ref No:</b>	1301-6XAFSY	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>		<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Other Motor Vehicle
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	Hwy 417 E between Vanier Parkway and St. Laurent<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	150 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Surface Water Pollution	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Water	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>	No Field Response	<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	1/9/2007	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>	2/23/2007		
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	Andleaur Transp & S. 21(1)(f) - 150 L diesel to Hwy and sewer		

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**Site:** Ferguson Fuels<UNOFFICIAL> **Database:** SPL  
HWY 417 EASTBOUND AT THE EAGLESON OFF RAMP<UNOFFICIAL> Ottawa ON

<b>Ref No:</b>	2342-6QAQYF	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oils
<b>Incident Dt:</b>	5/30/2006	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Other Motor Vehicle
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	60 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Confirmed	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination; Surface Water Pollution	<b>Site Lot:</b>	

**Receiving Medium:** Land & Water  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 5/30/2006  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:**  
**Incident Reason:**  
**Incident Summary:** Ferguson Fuels ~60 L diesel spill, Hwy 417, Eagleson exit

**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

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**Site:** **LECLAIR FUELS LTD.**  
**HWY 417 BTWN INNIS & PKWY TANK TRUCK (CARGO) OTTAWA CITY ON**

**Database:**  
**SPL**

**Ref No:** 4525  
**Site No:**  
**Incident Dt:** 5/31/1988  
**Year:**  
**Incident Cause:** ABOVE-GROUND TANK LEAK  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:**  
**Environment Impact:**  
**Nature of Impact:**  
**Receiving Medium:** LAND  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 5/31/1988  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:**  
**Incident Reason:** UNKNOWN  
**Incident Summary:** 15 LTR. DIESEL TO HWY. FROM TRUCK FUEL TANK.

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:**  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:**  
**Site Address:**  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** 20101  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

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**Site:** **HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL> Ottawa ON**

**Database:**  
**SPL**

**Ref No:** 5448-5KXU3S  
**Site No:**  
**Incident Dt:** 3/24/2003  
**Year:**  
**Incident Cause:**  
**Incident Event:**  
**Contaminant Code:** 15  
**Contaminant Name:** HYDRAULIC OIL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 68 L  
**Environment Impact:** Possible  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:** Land  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 3/24/2003  
**Dt Document Closed:**

**Discharger Report:**  
**Material Group:** Oil  
**Client Type:**  
**Sector Type:**  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** HWY 417 ONRAMP AT TERRY FOX EXIT<UNOFFICIAL>  
**Site Address:**  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:** Eastern  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Agency Involved:**  
**SAC Action Class:** Spill to Land  
**Incident Reason:**  
**Incident Summary:** Dundas Drilling- 68 L hydr.oil to ditch, cleaning

**Site:** **TRANSPORT TRUCK**  
**HWY. 417 MOTOR VEHICLE (OPERATING FLUID) OTTAWA ON**

**Database:**  
**SPL**

<b>Ref No:</b>	191523	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	12/4/2000	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	TRUCK/TRAILER OVERTURN	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>		<b>Site Name:</b>	
<b>Contaminant Name:</b>		<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	POSSIBLE	<b>Site Municipality:</b>	20107
<b>Nature of Impact:</b>	Soil contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	LAND	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	12/4/2000	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	OTHER		
<b>Incident Summary:</b>	RSR ENVIRONMENTAL:SPILL OF 50-100 L DIESEL DUE TO ROLLOVER. CONTAINED.		

**Site:** **TRANSPORT TRUCK**  
**HWY 417 BETWEEN NICOLAS AND VANIER PARKWAY MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON**

**Database:**  
**SPL**

<b>Ref No:</b>	240047	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	9/20/2002	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	BLADDER FAILURE	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>		<b>Site Name:</b>	
<b>Contaminant Name:</b>		<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	POSSIBLE	<b>Site Municipality:</b>	20107
<b>Nature of Impact:</b>	Water course or lake	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	LAND, WATER	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	9/20/2002	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	DAMAGE BY MOVING EQUIPMENT		
<b>Incident Summary:</b>	MOLSON'S:300L DIESEL TO GRD,50L TO SEWER, CONTAINED AND CLEANING		

**Site:** **Sita Ontario Inc.**

**Database:**

<b>Ref No:</b>	4124-6DJQG	<b>Discharger Report:</b>	0
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	6/20/2005	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Transport Truck
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>		<b>Site Name:</b>	50 L diesel to shoulder<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	6/20/2005	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Spills to Highways (usually highway accidents)		
<b>Incident Reason:</b>			
<b>Incident Summary:</b>	MVA: SITA Can.: 50 L diesel to Hwy 417/Moodie Dr.		

**Site:** CITY OF OTTAWA SNOW PLOW<UNOFFICIAL>  
TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL> Ottawa ON

**Database:**  
SPL

<b>Ref No:</b>	0881-5HS47B	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	1/13/2003	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	Container Leak (Fuel Tank Barrels)	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	TERRY FOX DRIVE AT THE HWY. 417 OVERPASS<UNOFFICIAL>
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	180 L	<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	1/13/2003	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>	Spill to Land		
<b>Incident Reason:</b>	Error- Operator error		
<b>Incident Summary:</b>	CITY OF OTTAWA - 180 L OF DIESEL FUEL TO GROUND.		

**Site:** Wilway Transport<UNOFFICIAL>  
Highway 417 eastbound, panmure exit(exit 162) MVA - HIGHWAY 417 EASTBOUND AT PANMURE EXIT (EXIT 163)<UNOFFICIAL> Ottawa ON

**Database:**  
SPL

<b>Ref No:</b>	5853-6SC638	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oils
<b>Incident Dt:</b>	8/3/2006	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Transport Truck



<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	13	<b>Site Name:</b>	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
<b>Contaminant Name:</b>	DIESEL FUEL	<b>Site Address:</b>	HIGHWAY 417 EASTBOUND, PANMURE EXIT(EXIT 162)
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	50 L	<b>Site Region:</b>	
<b>Environment Impact:</b>	Confirmed	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination; Vegetation Damage	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	8/3/2006	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	Equipment/Vehicles		
<b>Incident Summary:</b>	MVA: Hwy 417 eastbnd, Panmure exit, diesel to median		

**Site:** TRANSPORT TRUCK  
HWY 417 AT MILE MARKER 5, EASTBOUND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON

**Database:**  
SPL

<b>Ref No:</b>	233267	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	7/25/2002	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	OTHER TRANSPORTATION ACCIDENT	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>		<b>Site Name:</b>	
<b>Contaminant Name:</b>		<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	POSSIBLE	<b>Site Municipality:</b>	20107
<b>Nature of Impact:</b>	Soil contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	LAND	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	7/25/2002	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>	OPP,MTO		
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	UNKNOWN		
<b>Incident Summary:</b>	BELFAST FRUIT INC. MVA PUT TRUCK IN DITCH. DIE-SEL FROM SADDLE TANKS.		

**Site:** HIGHWAY 417 EASTBOUND, EAST OF ROCKDALE EXIT<UNOFFICIAL> Ottawa ON

**Database:**  
SPL

<b>Ref No:</b>	2415-6M4SUB	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oils
<b>Incident Dt:</b>	2/17/2006	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Other Motor Vehicle
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	12	<b>Site Name:</b>	
<b>Contaminant Name:</b>	GASOLINE	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	

<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	Not specified 12	<b>Site Region:</b>	
<b>Environment Impact:</b>	Not Anticipated	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Human Health/Safety; Other Impact(s); Soil Contamination	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	2/17/2006	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	Equipment Failure		
<b>Incident Summary:</b>	Hwy 417 eastbound, 36 vehicle MVA - operating fluid to grnd		

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<b>Site:</b>	<b>TRANSPORT TRUCK HWY # 417 AT ROCHESTER EXIT. MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON</b>	<b>Database:</b> <b>SPL</b>
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<b>Ref No:</b>	172543	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	
<b>Incident Dt:</b>	9/10/1999	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	
<b>Incident Cause:</b>	OTHER CONTAINER LEAK	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>		<b>Site Name:</b>	
<b>Contaminant Name:</b>		<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>		<b>Site Region:</b>	
<b>Environment Impact:</b>	NOT ANTICIPATED	<b>Site Municipality:</b>	20101
<b>Nature of Impact:</b>		<b>Site Lot:</b>	
<b>Receiving Medium:</b>	LAND	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	
<b>Health/Env Conseq:</b>		<b>Easting:</b>	FD
<b>MOE Response:</b>		<b>Site Geo Ref Accu:</b>	
<b>Dt MOE Arvl on Scn:</b>		<b>Site Geo Ref Meth:</b>	
<b>MOE Reported Dt:</b>	9/10/1999	<b>Site Map Datum:</b>	
<b>Dt Document Closed:</b>			
<b>Agency Involved:</b>			
<b>SAC Action Class:</b>			
<b>Incident Reason:</b>	ADVERSE ROAD CONDITION		
<b>Incident Summary:</b>	PROVIGO DISTRIBUTION-20 LDIESEL FROM TRUCK AT HWY EXIT,FD, WILL CLEANUP.		

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<b>Site:</b>	<b>Waste Services Inc. Highway 417 East bound West of Terry Fox Ottawa ON</b>	<b>Database:</b> <b>SPL</b>
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<b>Ref No:</b>	1683-5S3Q8B	<b>Discharger Report:</b>	
<b>Site No:</b>		<b>Material Group:</b>	Oil
<b>Incident Dt:</b>	10/6/2003	<b>Client Type:</b>	
<b>Year:</b>		<b>Sector Type:</b>	Other
<b>Incident Cause:</b>	Other Transport Accident	<b>Source Type:</b>	
<b>Incident Event:</b>		<b>Nearest Watercourse:</b>	
<b>Contaminant Code:</b>	15	<b>Site Name:</b>	HYDRAULIC OIL LEAK - HWY. 417 - OTTAWA<UNOFFICIAL>
<b>Contaminant Name:</b>	HYDRAULIC OIL	<b>Site Address:</b>	
<b>Contaminant Limit 1:</b>		<b>Site District Office:</b>	Ottawa
<b>Contam Limit Freq 1:</b>		<b>Site County/District:</b>	
<b>Contaminant UN No 1:</b>		<b>Site Postal Code:</b>	
<b>Contaminant Qty:</b>	60 L	<b>Site Region:</b>	Eastern
<b>Environment Impact:</b>	Possible	<b>Site Municipality:</b>	Ottawa
<b>Nature of Impact:</b>	Soil Contamination; Surface Water Pollution	<b>Site Lot:</b>	
<b>Receiving Medium:</b>	Land & Water	<b>Site Conc:</b>	
<b>Receiving Env:</b>		<b>Northing:</b>	

**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 10/6/2003  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Spill to Land  
**Incident Reason:** Equipment Failure - Malfunction of system components  
**Incident Summary:** Waste Services Inc. - Hydraulic oil spill

**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** Thermal Shell  
 Highway 417 West of Eagleson Rd Ottawa ON

**Database:**  
 SPL

**Ref No:** 2847-5NPPU5  
**Site No:**  
**Incident Dt:** 6/20/2003  
**Year:**  
**Incident Cause:** Container Leak (Fuel Tank Barrels)  
**Incident Event:**  
**Contaminant Code:** 13  
**Contaminant Name:** FUEL OIL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:**  
**Environment Impact:** Possible  
**Nature of Impact:** Soil Contamination  
**Receiving Medium:** Land  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 6/20/2003  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Spill to Land  
**Incident Reason:** Unknown - Reason not determined  
**Incident Summary:** Spill:Thermashell truck- 20L of fuel oil to ground

**Discharger Report:**  
**Material Group:** Oil  
**Client Type:**  
**Sector Type:**  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** THERMASHELL TRUCK<UNOFFICIAL>  
**Site Address:**  
**Site District Office:** Ottawa  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:** Eastern  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:**  
**Easting:**  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

**Site:** City of Ottawa  
 Highway 417 Ottawa ON

**Database:**  
 SPL

**Ref No:** 3043-7QMTYH  
**Site No:**  
**Incident Dt:**  
**Year:**  
**Incident Cause:** Pipe Or Hose Leak  
**Incident Event:**  
**Contaminant Code:**  
**Contaminant Name:** ENGINE OIL  
**Contaminant Limit 1:**  
**Contam Limit Freq 1:**  
**Contaminant UN No 1:**  
**Contaminant Qty:** 10 L  
**Environment Impact:** Not Anticipated  
**Nature of Impact:** Other Impact(s)  
**Receiving Medium:**  
**Receiving Env:**  
**Health/Env Conseq:**  
**MOE Response:**  
**Dt MOE Arvl on Scn:**  
**MOE Reported Dt:** 3/30/2009  
**Dt Document Closed:**  
**Agency Involved:**  
**SAC Action Class:** Primary Assessment of Incident  
**Incident Reason:** Unknown - Reason not determined

**Discharger Report:**  
**Material Group:**  
**Client Type:**  
**Sector Type:** Other  
**Source Type:**  
**Nearest Watercourse:**  
**Site Name:** EB Merge Lane Hwy 417 & Eagleson Road  
**Site Address:**  
**Site District Office:**  
**Site County/District:**  
**Site Postal Code:**  
**Site Region:**  
**Site Municipality:** Ottawa  
**Site Lot:**  
**Site Conc:**  
**Northing:** NA  
**Easting:** NA  
**Site Geo Ref Accu:**  
**Site Geo Ref Meth:**  
**Site Map Datum:**

***Incident Summary:***

OC Transpo: 10L engine oil to grnd on Hwy 417

## 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 2018**

### **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-Nov 2016**

### **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**

### **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-Jul 31, 2018**

### **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 2014**

### **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\***

**Commercial Fuel Oil Tanks:**

Provincial

CFOT

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; 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: Feb 28, 2017**

**Chemical Register:**

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-Jul 31, 2018**

**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 - Jul 2018**

**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-Sep 2018**

**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-Jul 31, 2018**

**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-Nov 30, 2017**

**Dry Cleaning Facilities:**

Federal

DRYCLEANERS

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

**Government Publication Date: Jan 2004-Dec 2016**

**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, 2018**



**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-Jul 31, 2018**

**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, 2018**

**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, 2018**

**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**

**List of TSSA Expired Facilities:**

Provincial

EXP

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

**Government Publication Date: Feb 28, 2017**

**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.

**Government Publication Date: Jun 2000-May 2018**

**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 2017**

**Fuel Storage Tank:**

Provincial

FST

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

**Government Publication Date: Feb 28, 2017**

**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-June 30, 2018**

**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 CO<sub>2</sub> eq).

**Government Publication Date: 2013-Dec 2016**

**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\***

**TSSA Incidents:**Provincial [INC](#)

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

**Government Publication Date: Feb 28, 2017**

**Landfill Inventory Management Ontario:**Provincial [LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will include information such as site owner, site location and certificate of approval # and status.

**Government Publication Date: Sep 30, 2017**

**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\***

**Environmental Penalty Annual Report:**Provincial [MISA PENALTY](#)

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, 2017**

**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 2018**

**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, 2016**

**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 National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

**Government Publication Date: 2008-Jun 30, 2018**

**National Energy Board Wells:**

Federal

NEBW

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

OGW

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](http://www.nickles.com).

**Government Publication Date: 1988-April 30, 2018**

**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 OGSRL 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-May 2018**

**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-Jul 31, 2018

**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:** 1988-Mar 2018

**TSSA Pipeline Incidents:**

Provincial

PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), 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 pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

**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-Jul 31, 2018

**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 2018

**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-Jul 31, 2018

**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

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

**Government Publication Date:** 1988-Jul 2018

**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, 2016

**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 2017

**TSSA Variances for Abandonment of Underground Storage Tanks:**

Provincial

VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all 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. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

**Government Publication Date:** Feb 28, 2017



**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, 2018**

**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: Dec 31, 2017**

# 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 H**

## **MAPS**

**Phase I Environmental Site Assessment**

**Elmdale Public School**

**49 Iona Street**

**Ottawa, Ontario**

**Ottawa Carleton District School Board**

**MM1027**



## Property Information

Order Number:	20181030014p
Date Completed:	October 31, 2018
Project Number:	MM1027
Project Property:	Elmdale P.S. 49 Iona Street Ottawa ON K1Y 3L8
Coordinates:	
Latitude:	45.394356
Longitude:	-75.735915
UTM Northing:	5027023.24006 Metres
UTM Easting:	442397.937635 Metres
UTM Zone:	UTM Zone 18T
Elevation:	69.88 m
Slope Direction:	N/A

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Topographic Information.....	2
Hydrologic Information.....	4
Geologic Information.....	5
Soil Information.....	10
Wells and Additional Sources.....	12
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The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography as well as hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, and radon are also included for review.

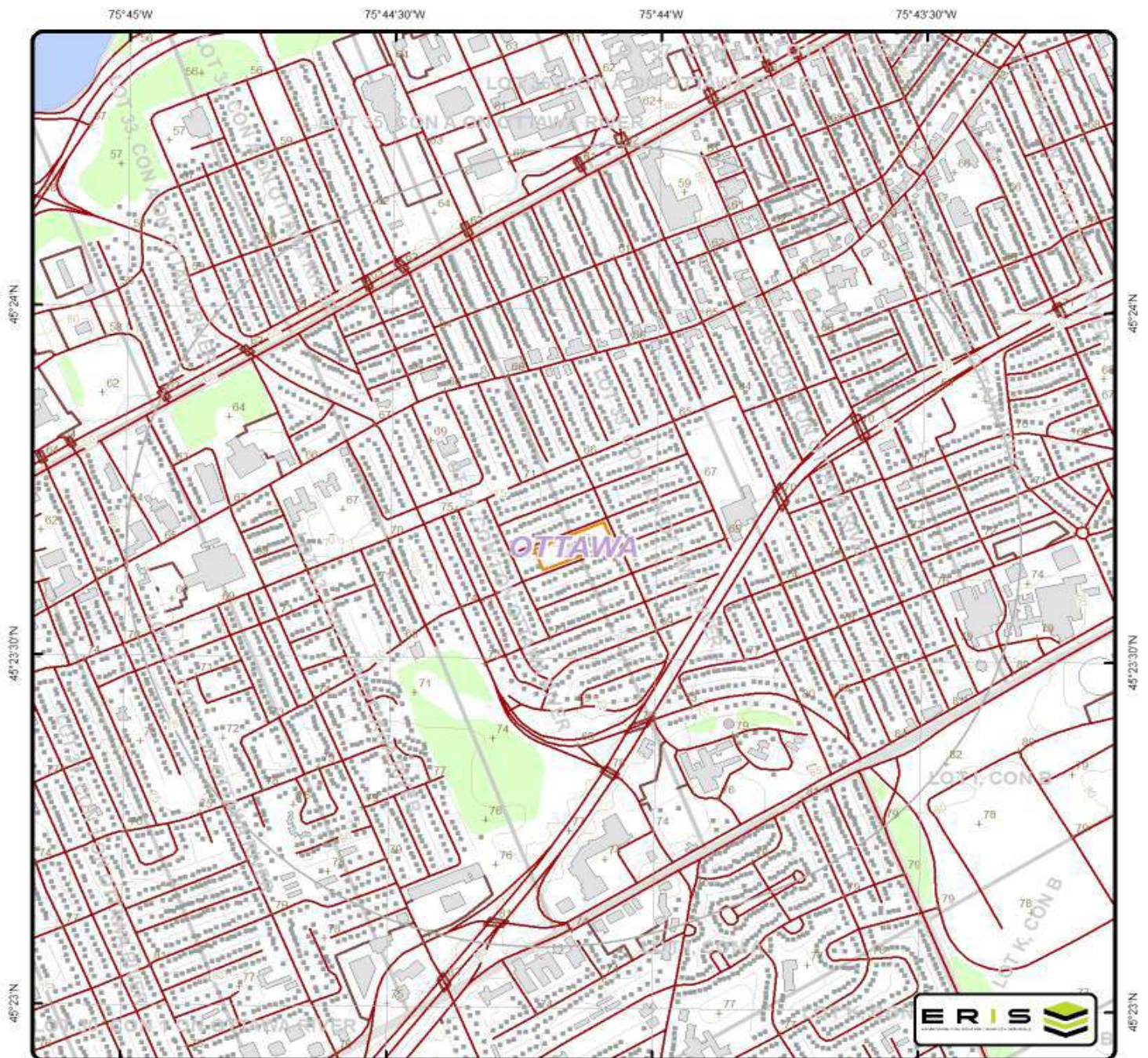
The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

### Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.



# Topographic Information



## Topographic Map

Address: 49 Iona Street, Ottawa, ON

0 0.175 0.35 0.7 KM



+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Wooded Area
•	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚓	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
•	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	—	Airports	■	Lots	■	National Park
—	Roads	—	Tanks	■	Municipality	■	Nature Reserve
—	Trail	—	Building to Scale	■	Land Ownership		

Data source: Ontario Base Mapping (OBM) by Ontario Ministry of Natural Resources.

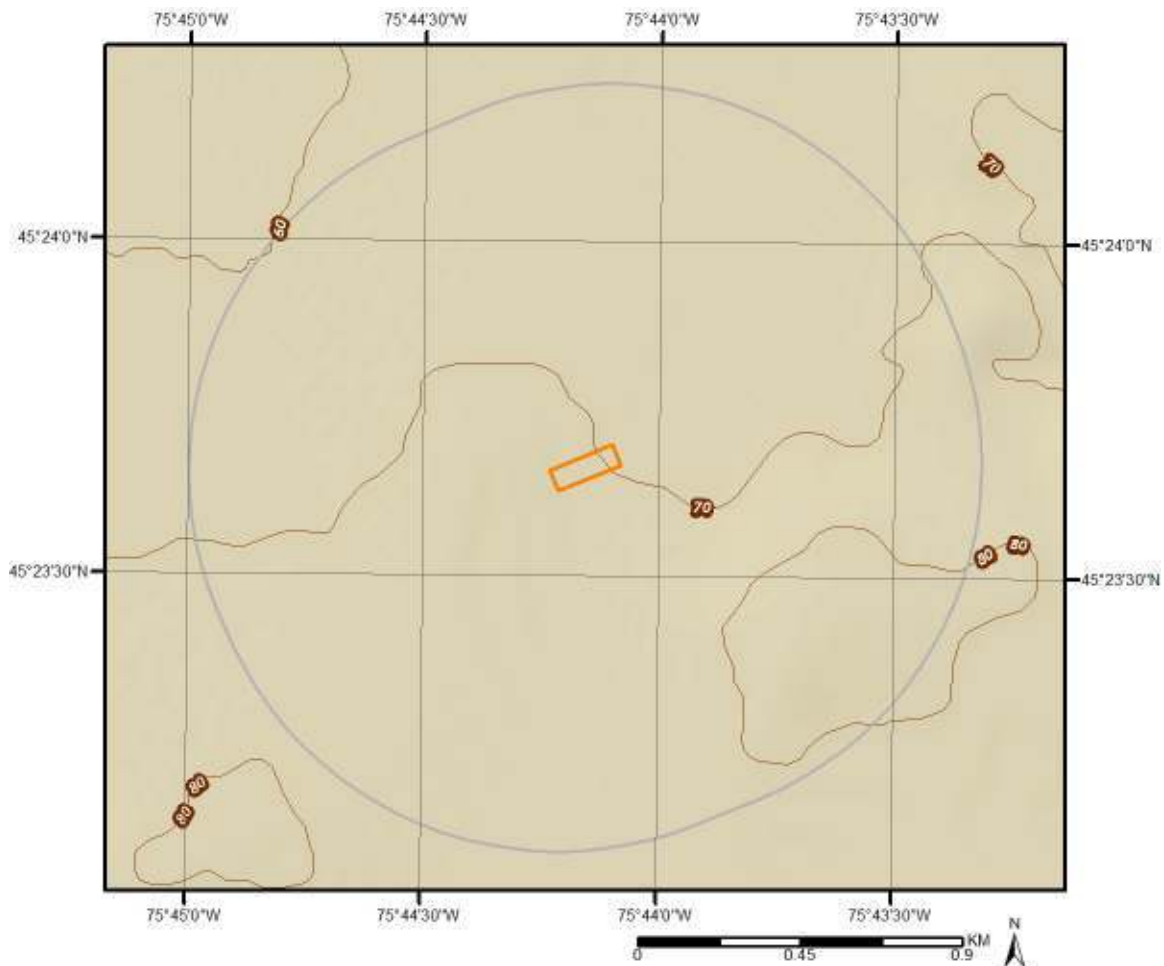


## Topographic Information

The previous topographic map(s) show general topographic information in the surrounding area of the project property, using Toporama data or a provincial source when available. Below are shaded relief map(s), derived from Digital Elevation data to depict terrain in further detail.

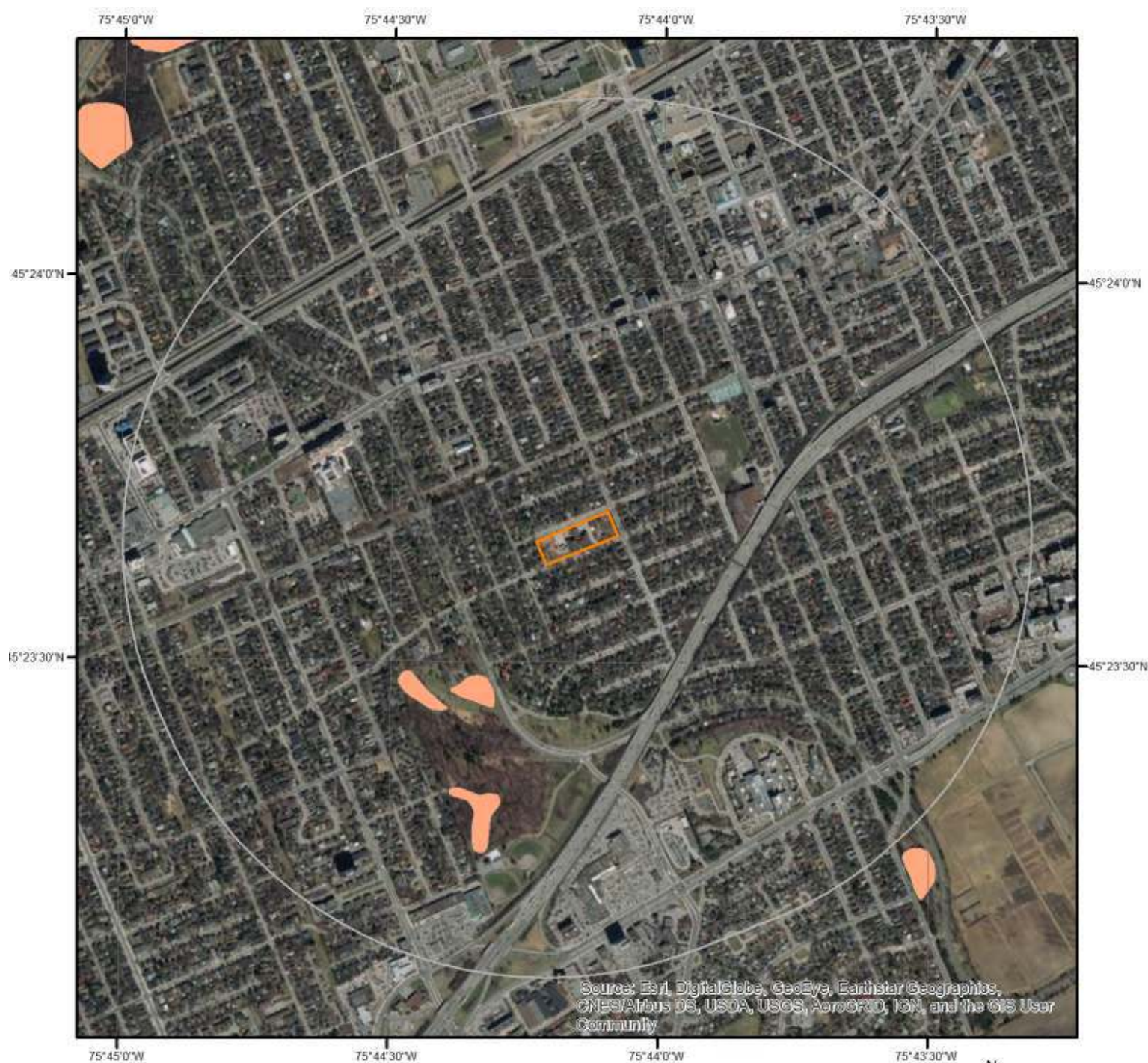
Topographic information at project property:

Elevation: 69.88 m  
Slope Direction: N/A





# Hydrologic Information



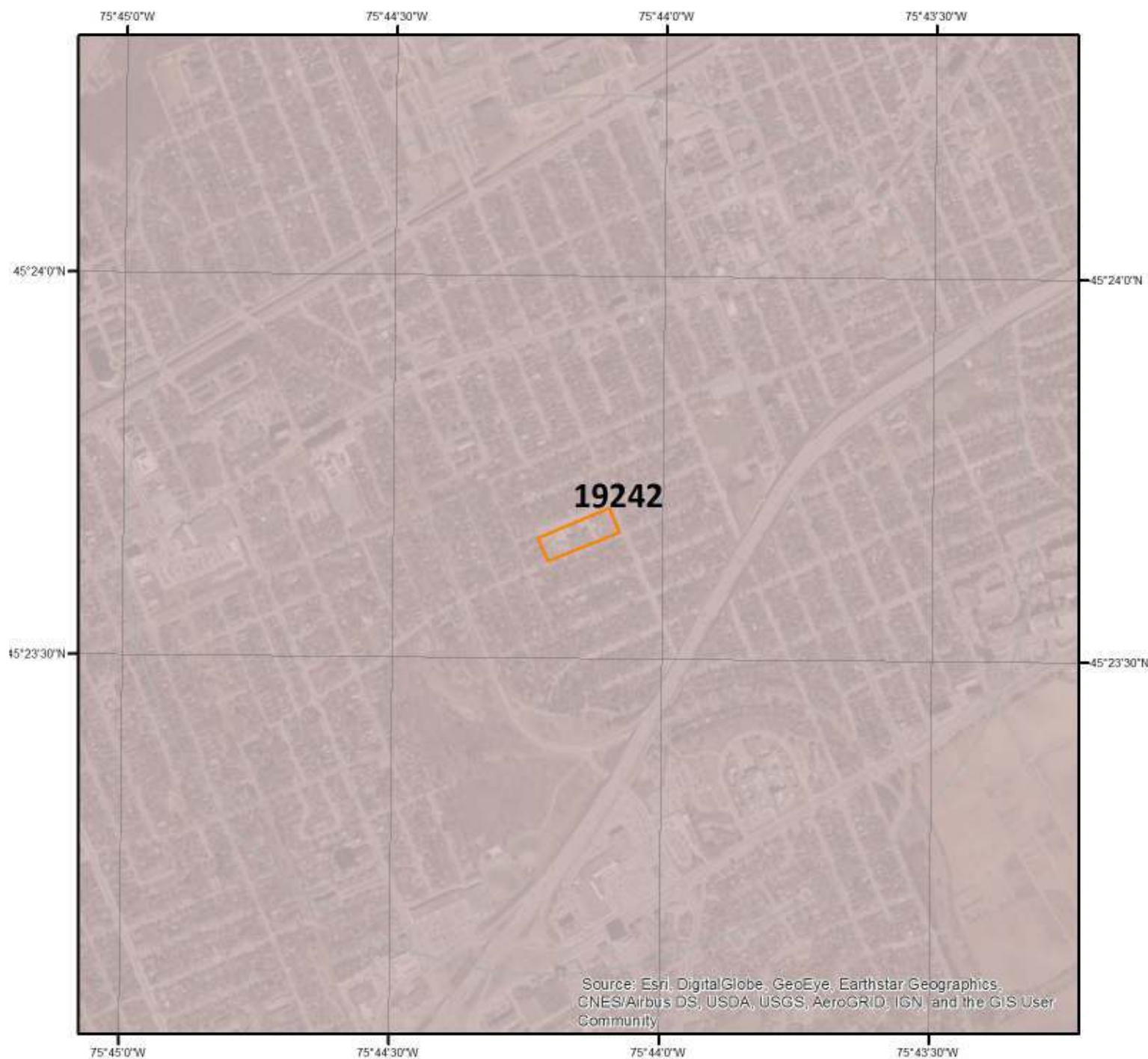
## Wetland

This map shows wetland existence. Data coverage is shown to the right. Gray indicates no data available in the area.

Swamp

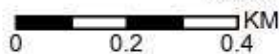


Geologic Information





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


Bedrock Geology



This map shows bedrock geologic units in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.









## Geologic Information

Detailed bedrock geology information about each unit within the search radius is provided below.

---

### Unit ID 19242

Unit Name:

Rock Type:

Limestone, dolostone, shale, arkose, sandstone

Strata:

Ottawa Group; Simcoe Group; Shadow Lake Formation

Super Eon:

Eon:

PHANEROZOIC (Present to 542.0 Ma)

Era:

PALEOZOIC (251.0 Ma to 542.0 Ma)

Period:

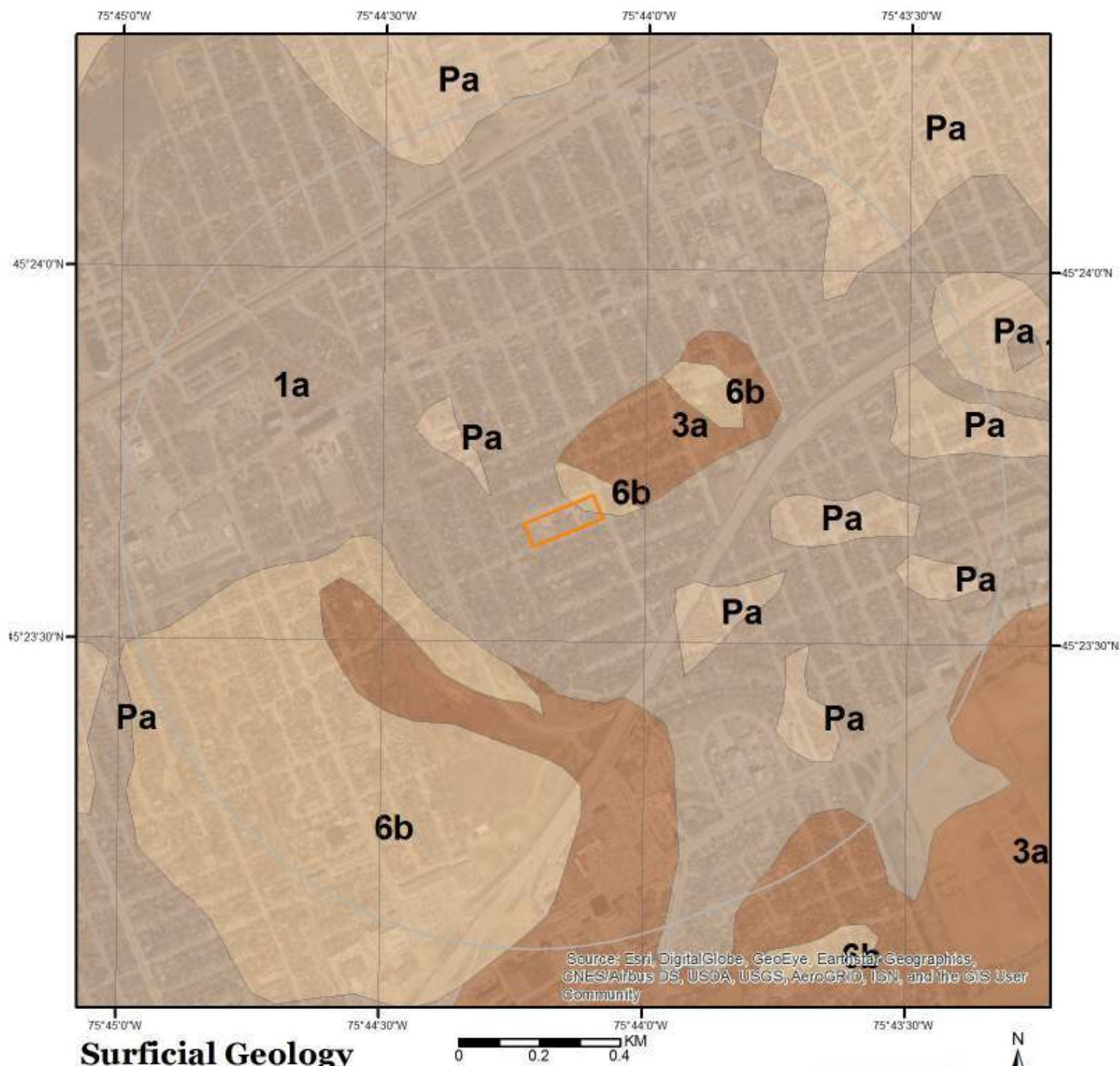
ORDOVICIAN (443.7 Ma to 488.3 Ma)

Epoch:

MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN)

Province:

Tectonic Zone:



## Surficial Geology

This map shows surficial geologic labels in the area. Please refer to the report for detailed descriptions. Data coverage is shown to the right. Gray indicates no data available in the area.



## Geologic Information

Detailed surficial geology information about each unit within the search radius is provided below.

---

### Unit ID 1a

Geological Deposit:	Till
Deposit Age:	Quaternary
Primary Material:	diamicton
Secondary Material:	
Primary General:	glacial
Primary General Modifier:	
Veneer:	
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	N-NE
Carbon Content:	
Formation:	Undifferentiated silty-sandy till on Paleozoic terrain
Permeability:	Low-Medium
Material Description:	Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a discontinuous lag consisting of gravel, sand and boulders

---

### Unit ID Pa

Geological Deposit:	Bedrock
Deposit Age:	Paleozoic
Primary Material:	Paleozoic Bedrock
Secondary Material:	
Primary General:	
Primary General Modifier:	
Veneer:	clay, silt, sand, gravel, diamicton
Episode:	
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

---

### Unit ID 3a

Geological Deposit:	Offshore marine deposits
Deposit Age:	Quaternary (Champlain Sea)

## Geologic Information

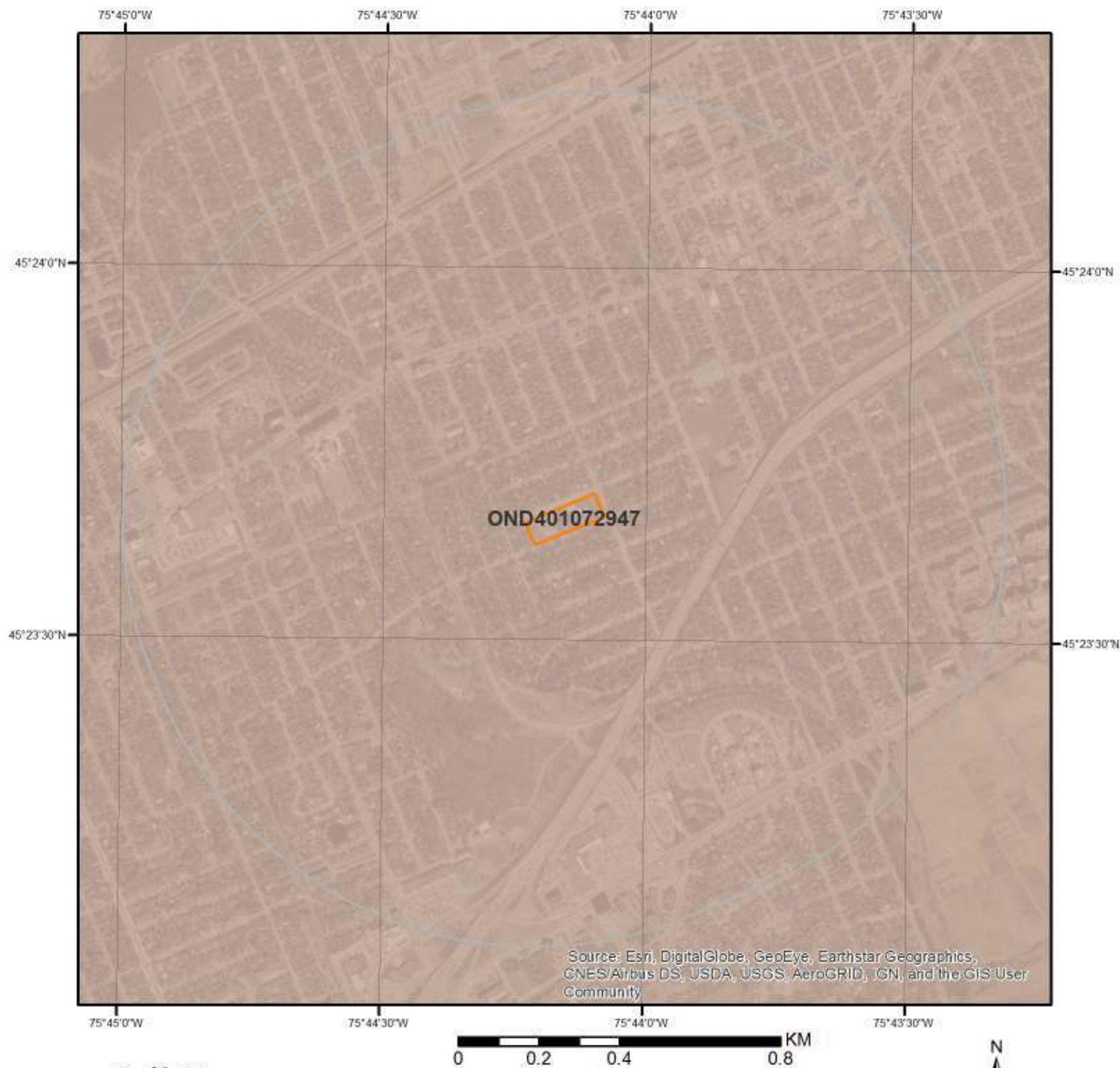
Primary Material:	clay, silt
Secondary Material:	
Primary General:	glaciomarine
Primary General Modifier:	foreshore/basinal
Veneer:	silt, sand
Episode:	Wisconsin
Sub Episode:	Michigan
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Low
Material Description:	Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were formed during terrace (or channel) cutting.

### Unit ID 6b

Geological Deposit:	Alluvial deposits
Deposit Age:	Recent
Primary Material:	sand
Secondary Material:	silt
Primary General:	fluvial
Primary General Modifier:	abandoned floodplain
Veneer:	
Episode:	Hudson
Sub Episode:	
Strata Modifier:	Surface
Provenance:	
Carbon Content:	
Formation:	
Permeability:	Variable
Material Description:	Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.



Soil Information



Soil Map

This map shows soil units around the target property. Please refer to the report for detailed soil descriptions.

## Soil Information

Detailed soil information about each unit within the search radius is provided below.

### Ontario Detailed Soil Survey (DSS3)

---

**Polygon ID:** OND401072947

#### Component

<b>Component ID:</b>	OND40107294701	<b>Components(%):</b>	100
<b>Soil Name ID:</b>	ONZUN~~~~~N	<b>Slope Steepness(%):</b>	Unknown or Not applicable
<b>Component No:</b>	1	<b>Slope Length(m):</b>	-9
<b>Surface Stoniness Class:</b>	Not Applicable		

#### Component Rating

##### Field Crops Capability:

First CLI Limitation

Subclass:

Second CLI Limitation

Subclass:

Drainage: Not Applicable

Soil Texture of A

Horizon:

Hydrological Soil

Groups:

#### Soil Name

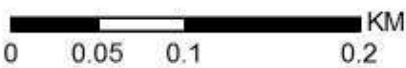
<b>Soil Name:</b>	UNCLASSIFIED
<b>Kind of Surface Material:</b>	Unclassified
<b>Soil Drainage Class:</b>	Not applicable
<b>Water Table</b>	Unspecified period
<b>Charateristics:</b>	
<b>Layer that Restricts Root Growth:</b>	No root restricting layer
<b>Type of Root Restricting Layer:</b>	n/a
<b>Parent Material 1, 2, 3:</b>	Not Applicable; Not Applicable; Not Applicable
<b>Mode of Deposition 1,2,3:</b>	Not Applicable; Not Applicable; Not Applicable
<b>Parent Material Chemical Property 1,2,3:</b>	Not Applicable; Not Applicable; Not Applicable

Wells and Additional Sources



Wells & Additional Sources

- ▲ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation





## Wells and Additional Sources Summary

### Federal Sources

#### National Energy Board Wells

Map Key	ID	Distance (m)	Direction
No records found			

### Provincial Sources

#### Ontario Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
No records found			

#### Provincial Groundwater Monitoring Network

Map Key	ID	Distance (m)	Direction
No records found			

#### Water Well Information System

Map Key	Well ID	Distance (m)	Direction
1	7170594	0.	-
2	7220993	94.33	N
3	7161465	62.52	WSW
4	7126601	111.32	WNW
5	7126600	130.38	SSW
6	7120507	233.64	E

### Private Sources

#### Oil and Gas Wells

Map Key	ID	Distance (m)	Direction
No records found			

# Wells and Additional Sources Detail Report

## Water Well Information System

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
1	-	0.00	0.00	69.88	WWIS

Well ID:	7170594	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Test Hole	Date Received:	10/28/2011
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	6964
Casing Material:		Form Version:	7
Audit No:	Z127832	Owner:	
Tag:	A094417	Street Name:	49 LONA ST
Construction Method:		County:	OTTAWA-CARLETON
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:			

Bore Hole ID:	1003590672	Elevation:	70.41
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442376
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5026986
Cluster Kind:		UTMRC:	3
Date Completed:	14-JUL-11	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			

## Wells and Additional Sources Detail Report

Formation ID: 1004035737  
Layer: 5  
Color: 2  
General Color: GREY  
Mat1: 05  
Most Common Material: CLAY  
Mat2: 81  
Other Materials: SANDY  
Mat3:  
Other Materials:  
Formation Top Depth: 3.65  
Formation End Depth: 4.3  
Formation End Depth UOM: m

Formation ID: 1004035738  
Layer: 6  
Color: 2  
General Color: GREY  
Mat1: 06  
Most Common Material: SILT  
Mat2: 28  
Other Materials: SAND  
Mat3: 11  
Other Materials: GRAVEL  
Formation Top Depth: 4.3  
Formation End Depth: 4.9  
Formation End Depth UOM: m

Formation ID: 1004035736  
Layer: 4  
Color: 2  
General Color: GREY  
Mat1: 05  
Most Common Material: CLAY  
Mat2: 84  
Other Materials: SILTY  
Mat3:  
Other Materials:  
Formation Top Depth: .9  
Formation End Depth: 3.65  
Formation End Depth UOM: m

Formation ID: 1004035735



## Wells and Additional Sources Detail Report

Layer: 3  
Color: 2  
General Color: GREY  
Mat1: 06  
Most Common Material: SILT  
Mat2: 28  
Other Materials: SAND  
Mat3: 11  
Other Materials: GRAVEL  
Formation Top Depth: .3  
Formation End Depth: .9  
Formation End Depth UOM: m

Formation ID: 1004035734  
Layer: 2  
Color:  
General Color:  
Mat1: 28  
Most Common Material: SAND  
Mat2: 11  
Other Materials: GRAVEL  
Mat3:  
Other Materials:  
Formation Top Depth: .05  
Formation End Depth: .3  
Formation End Depth UOM: m

Formation ID: 1004035733  
Layer: 1  
Color:  
General Color:  
Mat1:  
Most Common Material:  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 0  
Formation End Depth: .05  
Formation End Depth UOM: m

Formation ID: 1004035739  
Layer: 7

## Wells and Additional Sources Detail Report

Color:

General Color:

Mat1: 13

Most Common Material: BOULDERS

Mat2: 12

Other Materials: STONES

Mat3:

Other Materials:

Formation Top Depth: 4.9

Formation End Depth: 5.7

Formation End Depth m

UOM:

Plug ID: 1004035746

Layer: 1

Plug From:

Plug To:

Plug Depth UOM: m

Plug ID: 1004035747

Layer: 1

Plug From: 0

Plug To: 1.7

Plug Depth UOM: m

Plug ID: 1004035749

Layer: 3

Plug From: 2.35

Plug To: 5.7

Plug Depth UOM: m

Plug ID: 1004035748

Layer: 2

Plug From: 1.7

Plug To: 2.35

Plug Depth UOM: m

Method Construction ID: 1004035745

Method Construction E

Code:

Method Construction: Auger

Other Method

Construction:

## Wells and Additional Sources Detail Report

Pipe ID: 1004035732  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1004035742  
Layer: 1  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From: 0  
Depth To: 2.65  
Casing Diameter: 5.2  
Casing Diameter UOM: cm  
Casing Depth UOM: m

Screen ID: 1004035743  
Layer: 1  
Slot: 10  
Screen Top Depth: 2.65  
Screen End Depth: 5.7  
Screen Material: 5  
Screen Depth UOM: m  
Screen Diameter UOM: cm  
Screen Diameter: 6

Water ID: 1004035741  
Layer: 1  
Kind Code:  
Kind:  
Water Found Depth: 2.29  
Water Found Depth UOM: m

Hole ID: 1004035740  
Diameter: 22  
Depth From: 0  
Depth To: 5.7  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
2	N	0.09	94.33	69.88	WWIS

## Wells and Additional Sources Detail Report

Well ID:	7220993	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring and Test Hole	Date Received:	5/30/2014
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Test Hole	Abandonment Rec:	
Water Type:		Contractor:	7241
Casing Material:		Form Version:	7
Audit No:	Z186827	Owner:	
Tag:	A155725	Street Name:	1541 MERIVALE RD
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
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:			
Bore Hole ID:	1004790203	Elevation:	67.28
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442389
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027155
Cluster Kind:		UTMRC:	4
Date Completed:	16-APR-14	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location			
Source:			
Improvement Location			
Method:			
Source Revision			
Comment:			
Supplier Comment:			
Formation ID:	1005166161		
Layer:	1		
Color:	6		
General Color:	BROWN		
Mat1:	28		
Most Common Material:	SAND		

## Wells and Additional Sources Detail Report

Mat2: 11  
Other Materials: GRAVEL  
Mat3: 68  
Other Materials: DRY  
Formation Top Depth: 0  
Formation End Depth: 3.35  
Formation End Depth  
UOM: m

Plug ID: 1005166171  
Layer: 3  
Plug From: .91  
Plug To: 3.35  
Plug Depth UOM: m

Plug ID: 1005166170  
Layer: 2  
Plug From: .31  
Plug To: .91  
Plug Depth UOM: m

Plug ID: 1005166169  
Layer: 1  
Plug From: 0  
Plug To: .31  
Plug Depth UOM: m

Method Construction ID: 1005166168  
Method Construction  
Code: 2  
Method Construction: Rotary (Convent.)  
Other Method  
Construction:

Pipe ID: 1005166160  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1005166164  
Layer: 1  
Material: 5  
Open Hole or Material: PLASTIC

## Wells and Additional Sources Detail Report

Depth From: 0  
 Depth To: .91  
 Casing Diameter: 5.2  
 Casing Diameter UOM: cm  
 Casing Depth UOM: m

Screen ID: 1005166165  
 Layer: 1  
 Slot: 10  
 Screen Top Depth: .91  
 Screen End Depth: 3.35  
 Screen Material: 5  
 Screen Depth UOM: m  
 Screen Diameter UOM: cm  
 Screen Diameter: 6.03

Water ID: 1005166163  
 Layer:  
 Kind Code:  
 Kind:  
 Water Found Depth:  
 Water Found Depth UOM: m

Hole ID: 1005166162  
 Diameter: 20.32  
 Depth From: 0  
 Depth To: 3.35  
 Hole Depth UOM: m  
 Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
3	WSW	0.06	62.52	70.88	WWIS

Well ID: 7161465  
 Construction Date:  
 Primary Water Use:  
 Sec. Water Use:  
 Final Well Status:  
 Water Type:  
 Casing Material:  
 Audit No: 239771  
 Tag:  
 Construction Method:

Data Entry Status:  
 Data Src:  
 Date Received: 7/30/2009  
 Selected Flag: Yes  
 Abandonment Rec: Yes  
 Contractor: 6838  
 Form Version: 2  
 Owner:  
 Street Name:  
 County: OTTAWA-CARLETON



## Wells and Additional Sources Detail Report

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:		

Bore Hole ID:	1003493893	Elevation:	73.75
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442257
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5026955
Cluster Kind:		UTMRC:	3
Date Completed:	15-JUL-09	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			

Formation ID:	1003496215
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	
Other Materials:	
Formation Top Depth:	2.3
Formation End Depth:	3.05
Formation End Depth UOM:	m

Formation ID:	1003496214
Layer:	2

## Wells and Additional Sources Detail Report

Color: 6  
General Color: BROWN  
Mat1: 01  
Most Common Material: FILL  
Mat2: 11  
Other Materials: GRAVEL  
Mat3:  
Other Materials:  
Formation Top Depth: .1  
Formation End Depth: 2.3  
Formation End Depth UOM: m

Formation ID: 1003496213  
Layer: 1  
Color: 8  
General Color: BLACK  
Mat1: 27  
Most Common Material: OTHER  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 0  
Formation End Depth: .1  
Formation End Depth UOM: m

Plug ID: 1003496217  
Layer: 1  
Plug From: 0  
Plug To: .1  
Plug Depth UOM: m

Plug ID: 1003496218  
Layer: 2  
Plug From: .1  
Plug To: 3.05  
Plug Depth UOM: m

Method Construction ID: 1003496222  
Method Construction Code: 6  
Method Construction: Boring  
Other Method Construction:

## Wells and Additional Sources Detail Report

Pipe ID: 1003496212  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1003496220  
Layer:  
Material:  
Open Hole or Material:  
Depth From:  
Depth To:  
Casing Diameter:  
Casing Diameter UOM: cm  
Casing Depth UOM: m

Screen ID: 1003496221  
Layer:  
Slot:  
Screen Top Depth:  
Screen End Depth:  
Screen Material:  
Screen Depth UOM: m  
Screen Diameter UOM: cm  
Screen Diameter:

Water ID: 1003496219  
Layer: 1  
Kind Code: 1  
Kind: FRESH  
Water Found Depth: 2.37  
Water Found Depth UOM: m

Hole ID: 1003496216  
Diameter:  
Depth From:  
Depth To:  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
4	WNW	0.11	111.32	71.33	WWIS

## Wells and Additional Sources Detail Report

Well ID:	7126601	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring	Date Received:	7/30/2009
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	6838
Casing Material:		Form Version:	2
Audit No:	239770	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
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:			
Bore Hole ID:	1002581775	Elevation:	75.38
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442204
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027073
Cluster Kind:		UTMRC:	4
Date Completed:	16-JUL-09	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			
Formation ID:	1003349910		
Layer:	2		
Color:	6		
General Color:	BROWN		
Mat1:	01		

## Wells and Additional Sources Detail Report

Most Common Material: FILL  
Mat2: 28  
Other Materials: SAND  
Mat3: 11  
Other Materials: GRAVEL  
Formation Top Depth: .1  
Formation End Depth: 1.5  
Formation End Depth UOM: m

Formation ID: 1003349909  
Layer: 1  
Color: 8  
General Color: BLACK  
Mat1: 27  
Most Common Material: OTHER  
Mat2:  
Other Materials:  
Mat3:  
Other Materials:  
Formation Top Depth: 0  
Formation End Depth: .1  
Formation End Depth UOM: m

Formation ID: 1003349911  
Layer: 3  
Color: 6  
General Color: BROWN  
Mat1: 28  
Most Common Material: SAND  
Mat2: 11  
Other Materials: GRAVEL  
Mat3:  
Other Materials:  
Formation Top Depth: 1.5  
Formation End Depth: 3.05  
Formation End Depth UOM: m

Plug ID: 1003349914  
Layer: 2  
Plug From: .1  
Plug To: 3.05  
Plug Depth UOM: m

## Wells and Additional Sources Detail Report

Plug ID: 1003349913  
Layer: 1  
Plug From: 0  
Plug To: .1  
Plug Depth UOM: m

Method Construction ID: 1003349919  
Method Construction Code: 6  
Method Construction: Boring  
Other Method Construction:

Pipe ID: 1003349908  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1003349916  
Layer: 1  
Material: 5  
Open Hole or Material: PLASTIC  
Depth From:  
Depth To:  
Casing Diameter:  
Casing Diameter UOM: cm  
Casing Depth UOM: m

Screen ID: 1003349917  
Layer:  
Slot:  
Screen Top Depth:  
Screen End Depth:  
Screen Material:  
Screen Depth UOM: m  
Screen Diameter UOM: cm  
Screen Diameter:

Water ID: 1003349915  
Layer:  
Kind Code:  
Kind:



## Wells and Additional Sources Detail Report

Water Found Depth:  
Water Found Depth UOM: m

Hole ID: 1003349912  
Diameter:  
Depth From:  
Depth To:  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
5	SSW	0.13	130.38	70.56	WWIS

Well ID:	7126600	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:		Date Received:	7/30/2009
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Abandoned-Other	Abandonment Rec:	Yes
Water Type:		Contractor:	6838
Casing Material:		Form Version:	2
Audit No:	239787	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
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:			

Bore Hole ID:	1002581732	Elevation:	73.25
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442322
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5026830
Cluster Kind:		UTMRC:	4
Date Completed:	09-JUL-09	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			

## Wells and Additional Sources Detail Report

Location Source Date:

Improvement Location

Source:

Improvement Location

Method:

Source Revision

Comment:

Supplier Comment:

Formation ID: 1003349899

Layer: 3

Color: 2

General Color: GREY

Mat1: 06

Most Common Material: SILT

Mat2: 61

Other Materials: CLAYEY

Mat3:

Other Materials:

Formation Top Depth: 1.2

Formation End Depth: 3.05

Formation End Depth

UOM: m

Formation ID: 1003349898

Layer: 2

Color: 6

General Color: BROWN

Mat1: 28

Most Common Material: SAND

Mat2: 11

Other Materials: GRAVEL

Mat3: 84

Other Materials: SILTY

Formation Top Depth: .1

Formation End Depth: 1.2

Formation End Depth

UOM: m

Formation ID: 1003349897

Layer: 1

Color: 8

General Color: BLACK

Mat1: 27

Most Common Material: OTHER

Mat2:

Other Materials:

## Wells and Additional Sources Detail Report

Mat3:

Other Materials:

Formation Top Depth: 0  
Formation End Depth: .1  
Formation End Depth UOM: m

Plug ID: 1003349901  
Layer: 1  
Plug From: 0  
Plug To: .1  
Plug Depth UOM: m

Plug ID: 1003349902  
Layer: 2  
Plug From: .1  
Plug To: 3.05  
Plug Depth UOM: m

Method Construction ID: 1003349906  
Method Construction Code: 6  
Method Construction: Boring  
Other Method Construction:

Pipe ID: 1003349896  
Casing No: 0  
Comment:  
Alt Name:

Casing ID: 1003349904  
Layer:  
Material:  
Open Hole or Material:  
Depth From:  
Depth To:  
Casing Diameter:  
Casing Diameter UOM: cm  
Casing Depth UOM: m

Screen ID: 1003349905  
Layer:

## Wells and Additional Sources Detail Report

Slot:

Screen Top Depth:

Screen End Depth:

Screen Material:

Screen Depth UOM: m

Screen Diameter UOM: cm

Screen Diameter:

Water ID: 1003349903

Layer: 1

Kind Code: 1

Kind: FRESH

Water Found Depth: 2.29

Water Found Depth UOM: m

Hole ID: 1003349900

Diameter:

Depth From:

Depth To:

Hole Depth UOM: m

Hole Diameter UOM: cm

Map Key	Direction	Distance (km)	Distance (m)	Elevation (m)	DB
6	E	0.23	233.64	68.88	WWIS

Well ID: 7120507

Construction Date:

Primary Water Use: Monitoring

Sec. Water Use:

Final Well Status: Test Hole

Water Type:

Casing Material:

Audit No: M04531

Tag: A074600

Construction Method:

Elevation (m):

Elevation Reliability:

Depth to Bedrock:

Well Depth:

Overburden/Bedrock:

Pump Rate:

Static Water Level:

Flowing (Y/N):

Flow Rate:

Data Entry Status:

Data Src:

Date Received: 3/12/2009

Selected Flag: Yes

Abandonment Rec:

Contractor: 1844

Form Version: 5

Owner:

Street Name: 7 HINTON AVENUE

County: OTTAWA-CARLETON

Municipality: OTTAWA CITY

Site Info:

Lot:

Concession:

Concession Name:

Easting NAD83:

Northing NAD83:

Zone:

UTM Reliability:

## Wells and Additional Sources Detail Report

Clear/Cloudy:

Bore Hole ID:	1002748916	Elevation:	69.23
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442729
Code OB Desc:		Org CS:	UTM83
Open Hole:		North83:	5027017
Cluster Kind:	This is a record from cluster log sheet	UTMRC:	3
Date Completed:	09-DEC-08	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision			
Comment:			
Supplier Comment:			

Plug ID:	1002748920
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method Construction ID:	1002748919
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA/DIA

Pipe ID:	1002748921
Casing No:	0
Comment:	
Alt Name:	

Casing ID:	1002748923
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.5

## Wells and Additional Sources Detail Report

Casing Diameter:  
Casing Diameter UOM:  
Casing Depth UOM: m

Screen ID: 1002748922  
Layer:  
Slot:  
Screen Top Depth: 1.5  
Screen End Depth: 4.5  
Screen Material:  
Screen Depth UOM: m  
Screen Diameter UOM:  
Screen Diameter:

Pump Test ID: 1002748924  
Pump Set At:  
Static Level:  
Final Level After Pumping:  
Recommended Pump  
Depth:  
Pumping Rate:  
Flowing Rate:  
Recommended Pump  
Rate:  
Levels UOM:  
Rate UOM:  
Water State After Test  
Code:  
Water State After Test:  
Pumping Test Method:  
Pumping Duration HR:  
Pumping Duration MIN:  
Flowing:

Hole ID: 1002748918  
Diameter: 20  
Depth From:  
Depth To: 4.5  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Bore Hole ID:	1002032319	Elevation:	69.23
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	442729



## Wells and Additional Sources Detail Report

Code OB Desc:		Org CS:	UTM83
Open Hole:	N	North83:	5027017
Cluster Kind:		UTMRC:	4
Date Completed:	09-DEC-08	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location			
Source:			
Improvement Location			
Method:			
Source Revision			
Comment:			
Supplier Comment:			

Formation ID:	1002748926
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	81
Other Materials:	SANDY
Formation Top Depth:	0
Formation End Depth:	3
Formation End Depth	m
UOM:	

Formation ID:	1002748927
Layer:	2
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	3
Formation End Depth:	10.2
Formation End Depth	m
UOM:	

Plug ID:	1002748930
Layer:	1

## Wells and Additional Sources Detail Report

Plug From: .8  
Plug To: 1  
Plug Depth UOM: m

Plug ID: 1002748931  
Layer: 2  
Plug From: 4.8  
Plug To: 6  
Plug Depth UOM: m

Method Construction ID: 1002748934  
Method Construction Code: 7  
Method Construction: Diamond  
Other Method Construction: HSA

Pipe ID: 1002748925  
Casing No: 0  
Comment:  
Alt Name:

Screen ID: 1002748932  
Layer: 1  
Slot: 10  
Screen Top Depth:  
Screen End Depth:  
Screen Material: 5  
Screen Depth UOM: m  
Screen Diameter UOM: cm  
Screen Diameter: 3.1

Hole ID: 1002748929  
Diameter: 10  
Depth From: 3  
Depth To: 10.2  
Hole Depth UOM: m  
Hole Diameter UOM: cm

Hole ID: 1002748928  
Diameter: 20  
Depth From: 0

## Wells and Additional Sources Detail Report

Depth To: 3  
Hole Depth UOM: m  
Hole Diameter UOM: cm

## Radon Information

Detailed radon information for the project property is provided below.

### Radon Zone Information

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<b>ID:</b>	144852	<b>Radon Rank:</b>	LOW
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### Health Canada Radon Information

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<b>Health Region:</b>	3551
<b>Health Region Name:</b>	City of Ottawa Health Unit
<b>Province or Territory:</b>	ON
<b>Number Homes in Survey:</b>	64
<b>% Below 200 Bq/m3:</b>	93.8
<b>% Above 200 Bq/m3:</b>	6.2
<b>200 to 600 Bq/m3:</b>	6.2
<b>% Above 600 Bq/m3:</b>	0

## Area of Natural and Scientific Interest Information

There is no ANSI unit available in this area.

## Area of Natural and Scientific Interest Information

Detailed ANSI information is provided below.

No records found for the project property or surrounding properties.



## **Federal Sources**

### **Bedrock Geology of Canada**

The Geological Map of Canada is scaled at 1:5,000,000. This map is created by Geological Survey of Canada and published by Natural Resources Canada.

**BEDROCK GEOLOGY**

### **Health Canada Radon Information**

This source is the results from the Cross-Canada Survey of Radon Concentrations in Homes, a two-year study conducted by Health Canada's National Radon Program. The aims of this study were to obtain an estimate of the proportion of the Canadian population living in homes with radon gas levels above the guideline of 200 Bq/m<sup>3</sup>, to identify previously unknown areas where radon gas exposure may constitute a health risk, and to build, over time, a map of indoor radon gas exposure levels across Canada.

**RADON**

### **National Energy Board Wells**

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.

**NEBW**

### **Soil Landscapes of Canada (SLC)**

Major characteristics of soil and land such as surface form, slope, water table depth, permafrost and lakes.

**SLC**

### **Surficial Geology of Canada**

This map contains information on surficial materials and associated landforms left by the retreat of the last glaciers and non glacial environments. It is based on compilation of existing maps. This data was authored by the Geological Survey of Canada and published by Natural Resources Canada.

**SURFICIAL GEOLOGY**

### **Toporama**

Toporama covers the entire area of Canada's landmass and provides topographic, geo-referenced, and symbolic information in a raster format at 1:50,000 scale. This is a digital topographic reference product made available by Natural Resources Canada (NRCan).

**TOPORAMA**

## **Provincial Sources**

### **Area of Natural and Scientific Interest**

Areas of Natural and Scientific Interest (ANSIs) are lands and waters with features that are important for natural heritage protection, appreciation, scientific study or education. This dataset is made available by Ontario Ministry of Natural Resources.

**ANSI**

### **Bedrock Geology of Ontario**

The Bedrock Geology layer shows the distribution of bedrock units underlying Ontario at a 1:250,000 scale. The geology of the province consists of Precambrian rocks of the Canadian Shield and Phanerozoic sedimentary rocks that overlie the Canadian Shield. This layer was compiled by the Precambrian Geoscience Section of Ontario Geological Survey.

**BEDROCK GEOLOGY**

### **Ontario Detailed Soil Survey (DSS3)**

Soil surveys have been published for most of the agricultural areas, and many surrounding areas, across Canada. Data from these surveys comprise the most detailed soil inventory information in the National Soil DataBase. Data is made available by Agriculture and Agri-Food Canada

**SOIL SURVEY**

### **Ontario Oil and Gas Wells**

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.

**OOGW**

### **Provincial Groundwater Monitoring Network**

**GROUNDWATER**

## Appendix

Groundwater level and chemistry data from monitoring wells that are part of the Provincial Groundwater Monitoring Network (PGMN) Program. Precipitation data (rain) is also available for some sites. This data is provided by 'Ontario Ministry of Environment and Climate Change.

### **Surficial Geology of Ontario**

### **SURFICIAL GEOLOGY**

The Surficial Geology dataset contains a layer depicting the distribution and characteristics of surficial deposits across southern Ontario. This data set is authored by the Ontario Geological Survey.

### **Topographic Map of Ontario**

### **TOPOGRAPHIC MAP**

The Ontario Basic Mapping program provides a relationship between topographic information and the provincial geographical referencing grid, thereby forming the foundation for a comprehensive provincial geographical referencing system. This data is made available by the Ontario Ministry of Natural Resources and Forestry. This is ERIS self-designed topographic map template at 1:10,000.

### **Water Well Information System**

### **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.

### **Wetlands of Ontario**

### **WETLAND**

The Ministry of Natural Resources and Forestry has made available a database of wetlands in Ontario. Certain attributes identify wetlands that have been evaluated with the Ontario Wetland Evaluation System (OWES), and of those which ones have been designated as Provincially Significant Wetlands (PSW).

## **Private Sources**

### **Oil and Gas Wells**

### **OGW**

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](http://www.nickles.com).

### **Radon Zone Information**

### **RADON**

The Radon Potential Map is developed by Radon Environmental Management Corporation. Its objective was to illustrate the relative variation of radon risk across the country, and in 2011 it published its first geologic Radon Potential Map of Canada.

## Liability Notice

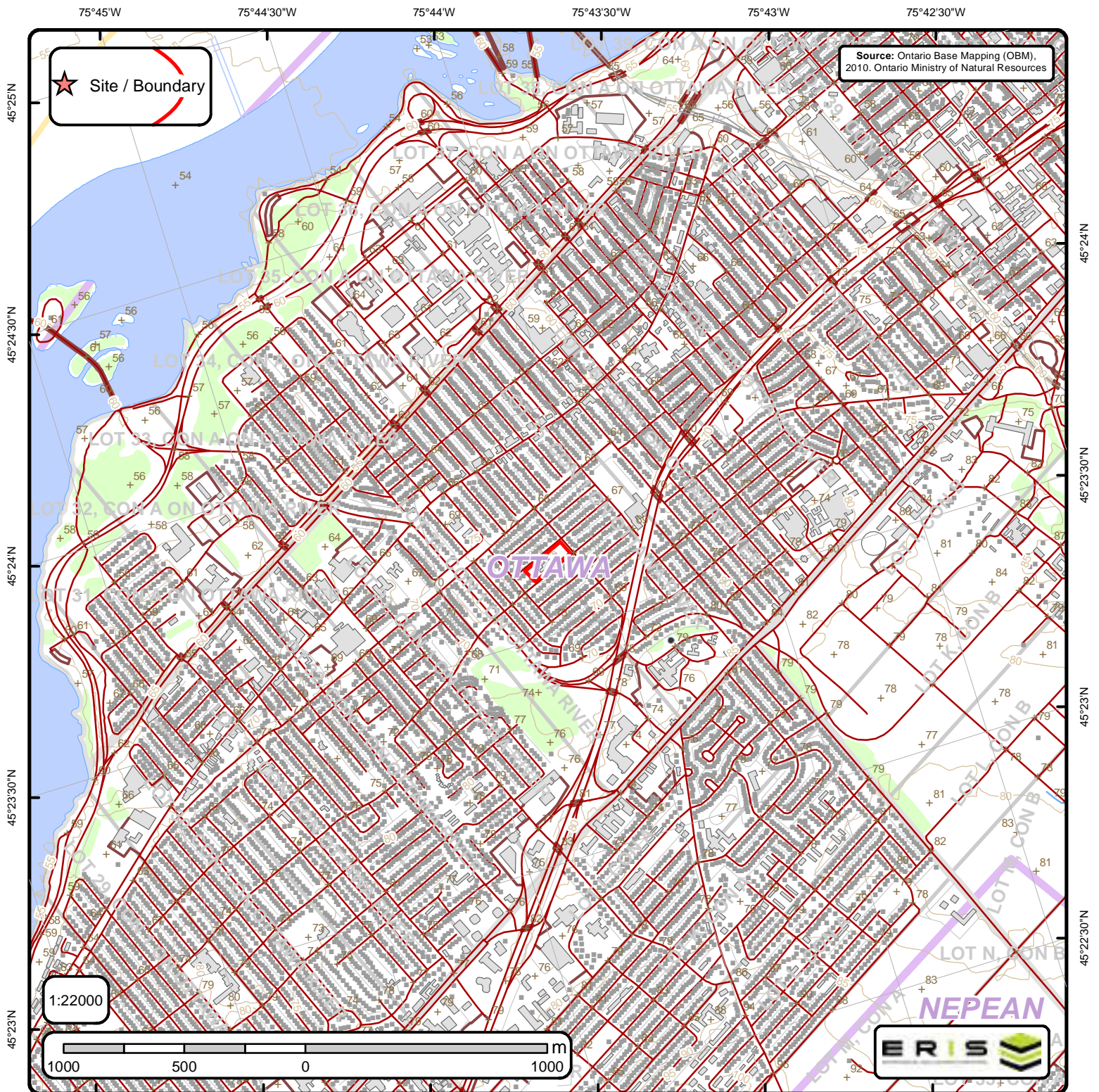
**Reliance on information in Report:** The Physical Setting Report (PSR) DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a review of environmental databases and physical characteristics for the site or adjacent properties.

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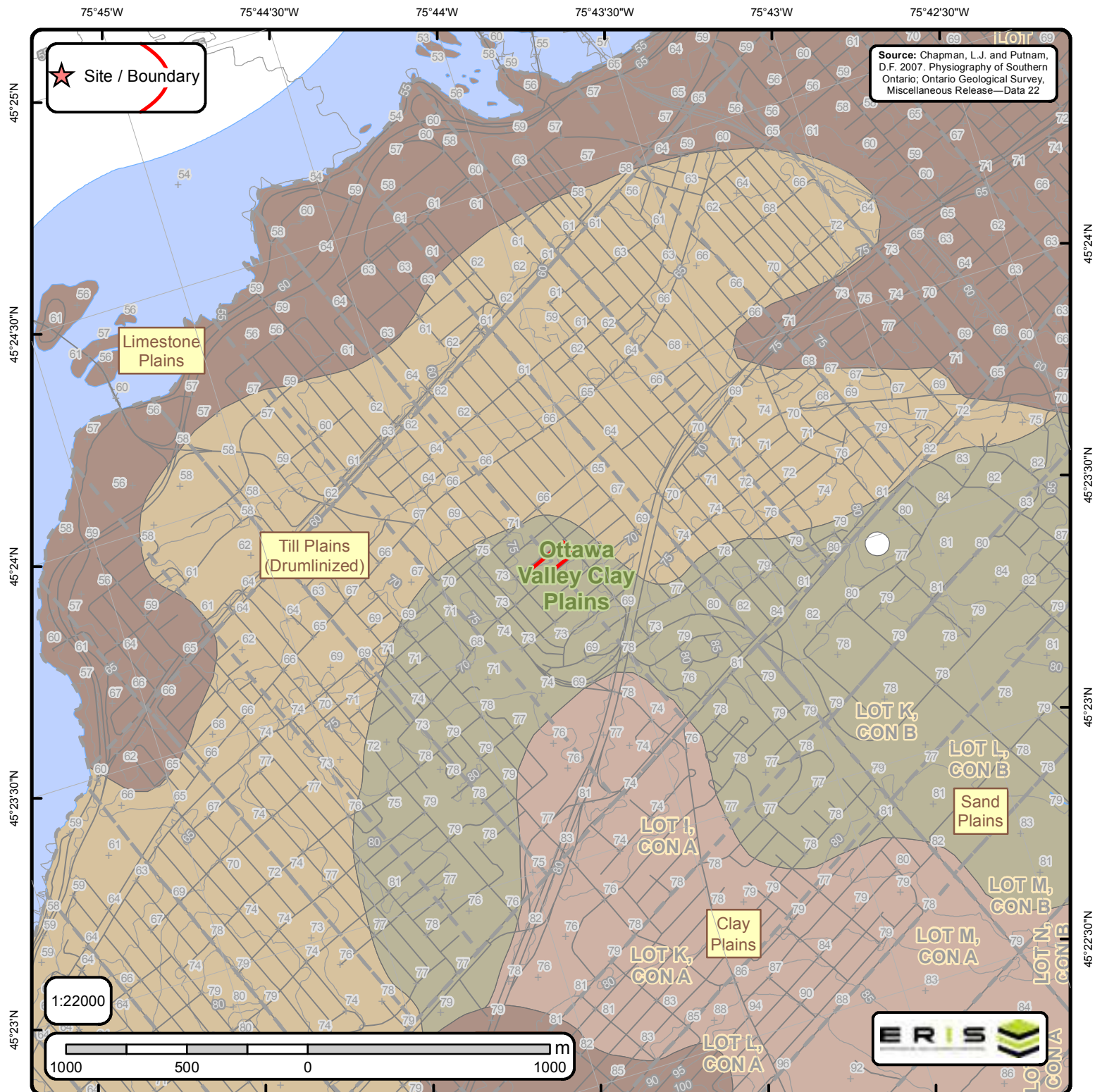


## Ontario Base Mapping (OBM) Data

Order No. 20181030014

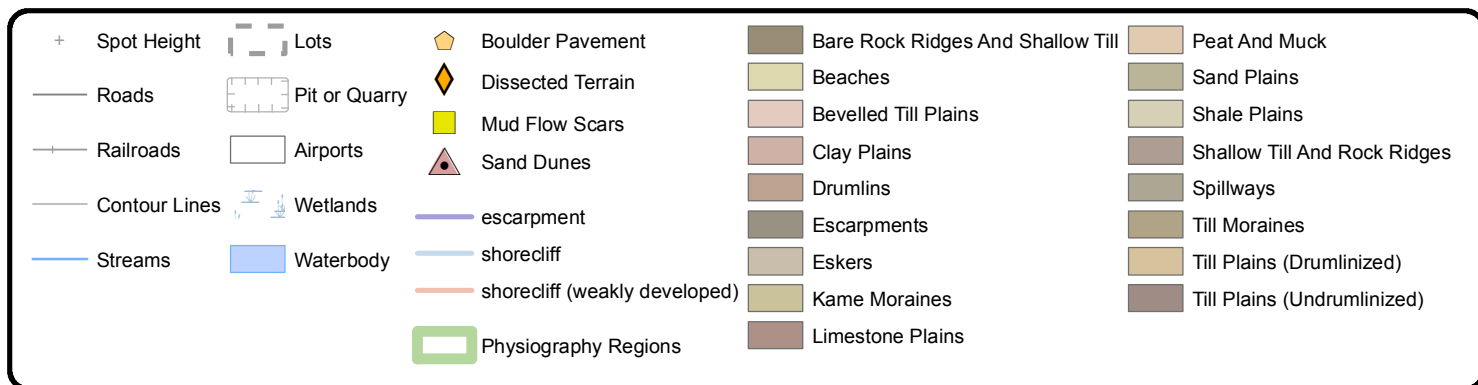
+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—●—	Utility Line	□	Pit or Quarry	■	Conservation Authority
⚙	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—+—	Railroads	□	Airports	■	Lots	■	National Park
—+—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership		

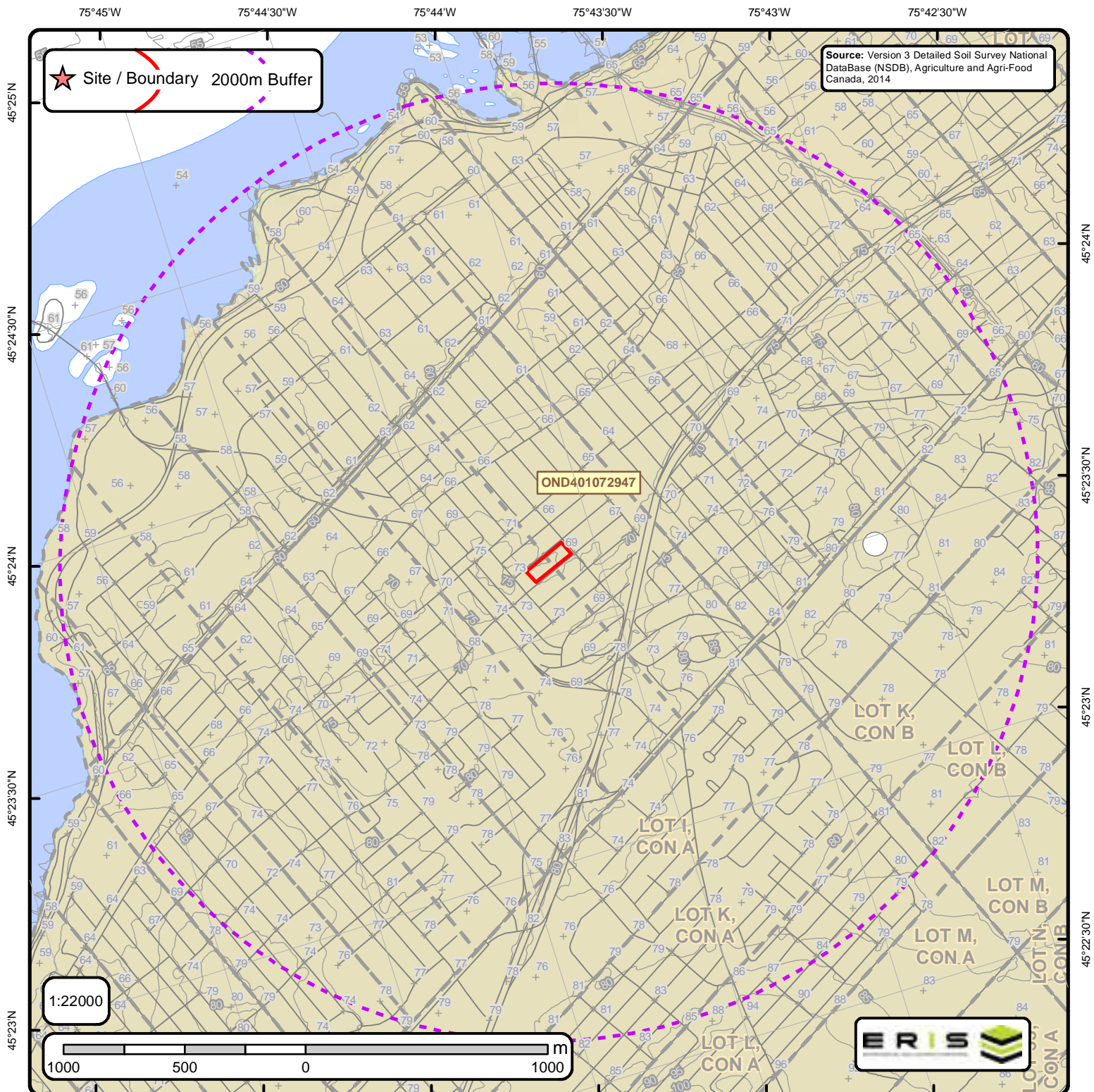




# Physiography of Southern Ontario

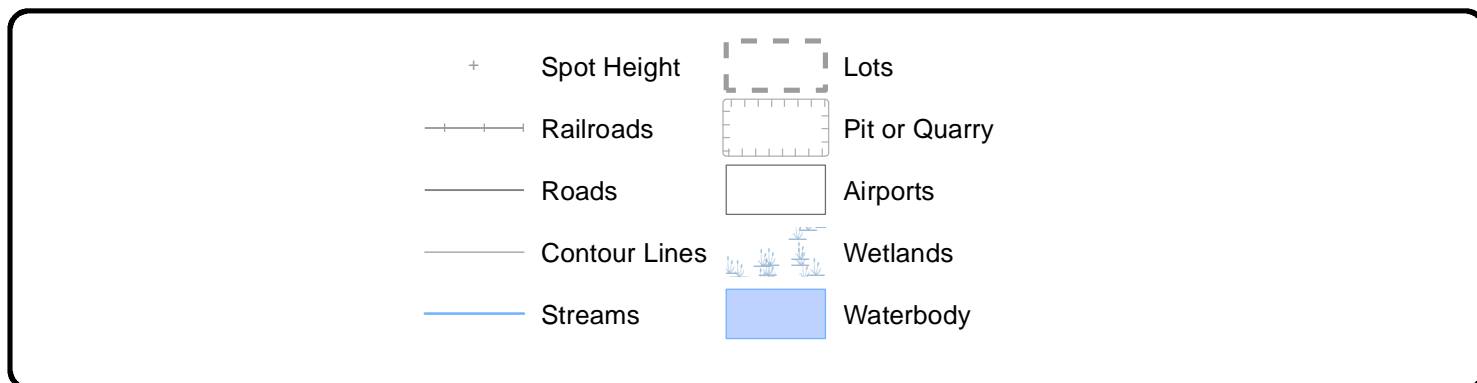
Order No. 20181030014





## Detailed Soil Survey (ON Soils)

Order No. 20181030014







# Soils Report

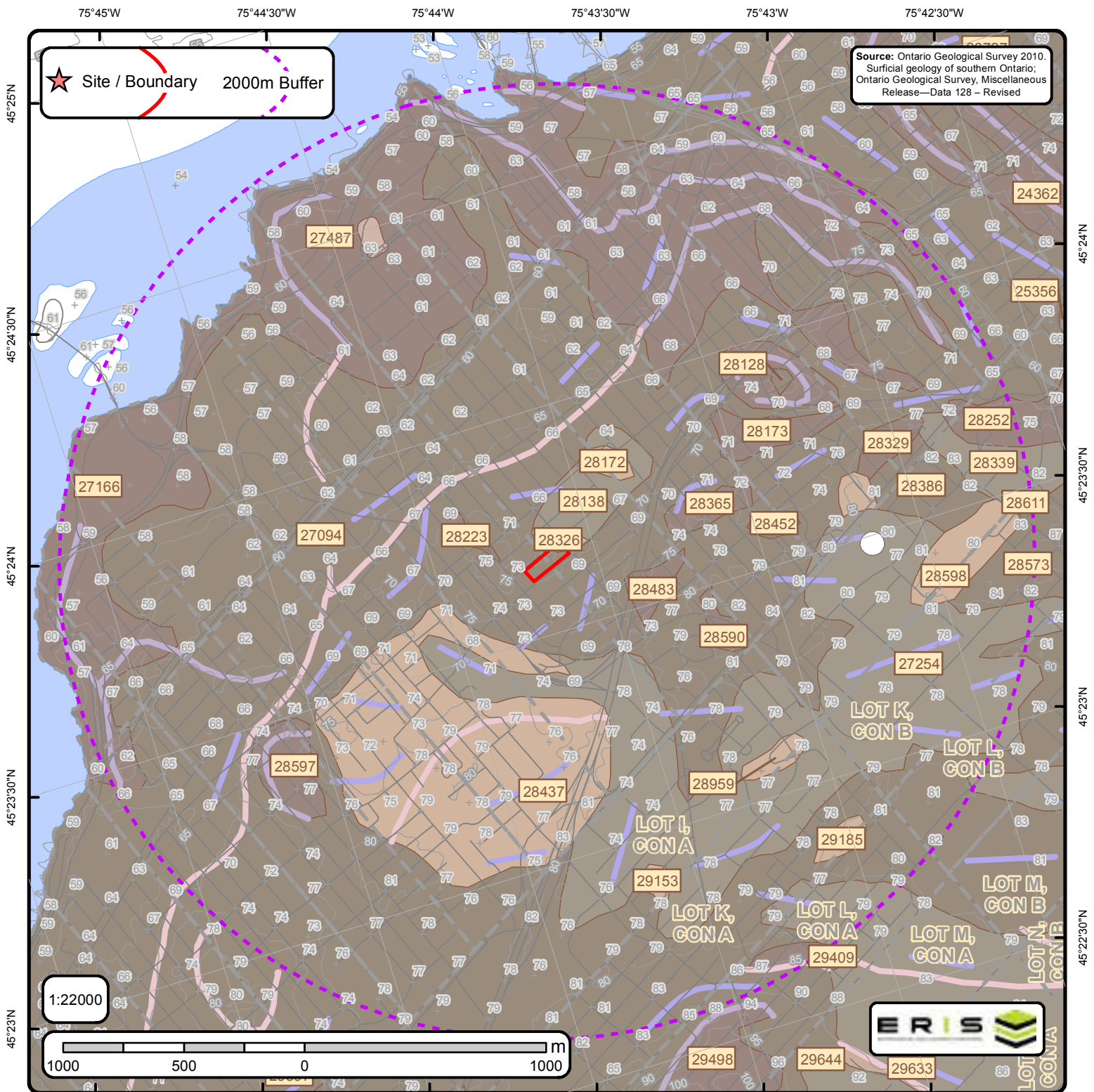
Soil Map Units Found within 2000 m of  
49 Iona Street, Ottawa, ON, K1Y 3L8

Page 1  
Order ID:  
20181030014



Soil ID: OND401072947

**Component No** : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |



# The Surficial Geology of Southern Ontario Order No. 20181030014





**ID:** 27094 | **Unit Name:** Till |  
**Deposit Type Code:** 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |  
**Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium |  
**Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

**ID:** 27166 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID:** 27254 | **Unit Name:** Offshore marine deposits |  
**Deposit Type Code:** 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine |  
**Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

**ID:** 27487 | **Unit Name:** Dunes |  
**Deposit Type Code:** dun | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** eolian | **Primary General Modifier:** | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Medium-High | **Material Description:** Dunes (largely stabilized) and sand deposits generally reworked by the wind.

**ID:** 28038 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



**ID: 28128 | Unit Name: Till |**

**Deposit Type Code:** 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

**ID: 28138 | Unit Name: Offshore marine deposits |**

**Deposit Type Code:** 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

**ID: 28172 | Unit Name: Alluvial deposits |**

**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID: 28173 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID: 28223 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



**ID:** 28252 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID:** 28326 | **Unit Name:** Alluvial deposits |  
**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID:** 28329 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID:** 28339 | **Unit Name:** Offshore marine deposits |  
**Deposit Type Code:** 3a | **Deposit Age:** Quaternary (Champlain Sea) | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciomarine | **Primary General Modifier:** foreshore/basinal | **Veneer:** silt, sand | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

**ID:** 28365 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.





**ID: 28386 | Unit Name: Till |**

**Deposit Type Code:** 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium | **Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

**ID: 28428 | Unit Name: Alluvial deposits |**

**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID: 28437 | Unit Name: Alluvial deposits |**

**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID: 28452 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID: 28483 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.





**ID: 28573 | Unit Name: Till |**

**Deposit Type Code:** 1a | **Deposit Age:** Quaternary | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** diamicton | **Primary Material Modifier:** sandy silt to silty sand | **Secondary Material:** | **Primary General:** glacial |  
**Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** N-NE | **Carbon Content:** | **Formation:** Undifferentiated silty-sandy till on Paleozoic terrain | **Permeability:** Low-Medium |  
**Material Description:** Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc

**ID: 28590 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID: 28597 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.

**ID: 28598 | Unit Name: Alluvial deposits |**

**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID: 28611 | Unit Name: Bedrock |**

**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 |  
**Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |  
**Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



**ID:** 28959 | **Unit Name:** Alluvial deposits |  
**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID:** 29153 | **Unit Name:** Alluvial deposits |  
**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID:** 29185 | **Unit Name:** Alluvial deposits |  
**Deposit Type Code:** 6b | **Deposit Age:** Recent | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** sand | **Primary Material Modifier:** | **Secondary Material:** silt | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Medium grained stratified sand with some silt; in the form of fluvial terraces and channels cut in marine clay, and bars and spits within abandoned channels.

**ID:** 29409 | **Unit Name:** Bedrock |  
**Deposit Type Code:** Pa | **Deposit Age:** Paleozoic | **Map Number:** of3103 | **Map Name:** Ottawa | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Limestone, dolomite, sandstone, and locally shale; relatively flat lying; mainly occurring as bare, tabular outcrops; includes areas thinly veneered by unconsolidated Quaternary sediments up to 1 m (3 ft) thick.



# Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;  
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



**ID** - ID applied to the Unit

**Unit Name** - Name of deposit

**Deposit Type Code** - The geological unit number taken from the original map legend.

**Deposit Age** - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

**Map Number** - Original map series number, eg., 'M2402' or 'P1973'. Each sgu\_point feature is tagged to its original map.

**Map Name** - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

**Source Map Scale** - The scale at which the original map was captured, e.g., '1:50 000'

**Primary Material** - This attribute provides the user with information regarding the most prevalent material present within a given area.

**Primary Material Modifier** - This attribute provides the user with a more refined description of the lithological classification of the primary material.

**Secondary Material** - This attribute provides the user with information regarding subordinate materials present within a given area.

**Primary General** - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

**Primary General Modifier** - This attribute provides the user with a refined interpretation of the primary genetic modifier.

**Veneer** - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

**Sub Episode** - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

**Sub Episode** - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

**Phase** - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

**Stratus Modifier** - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

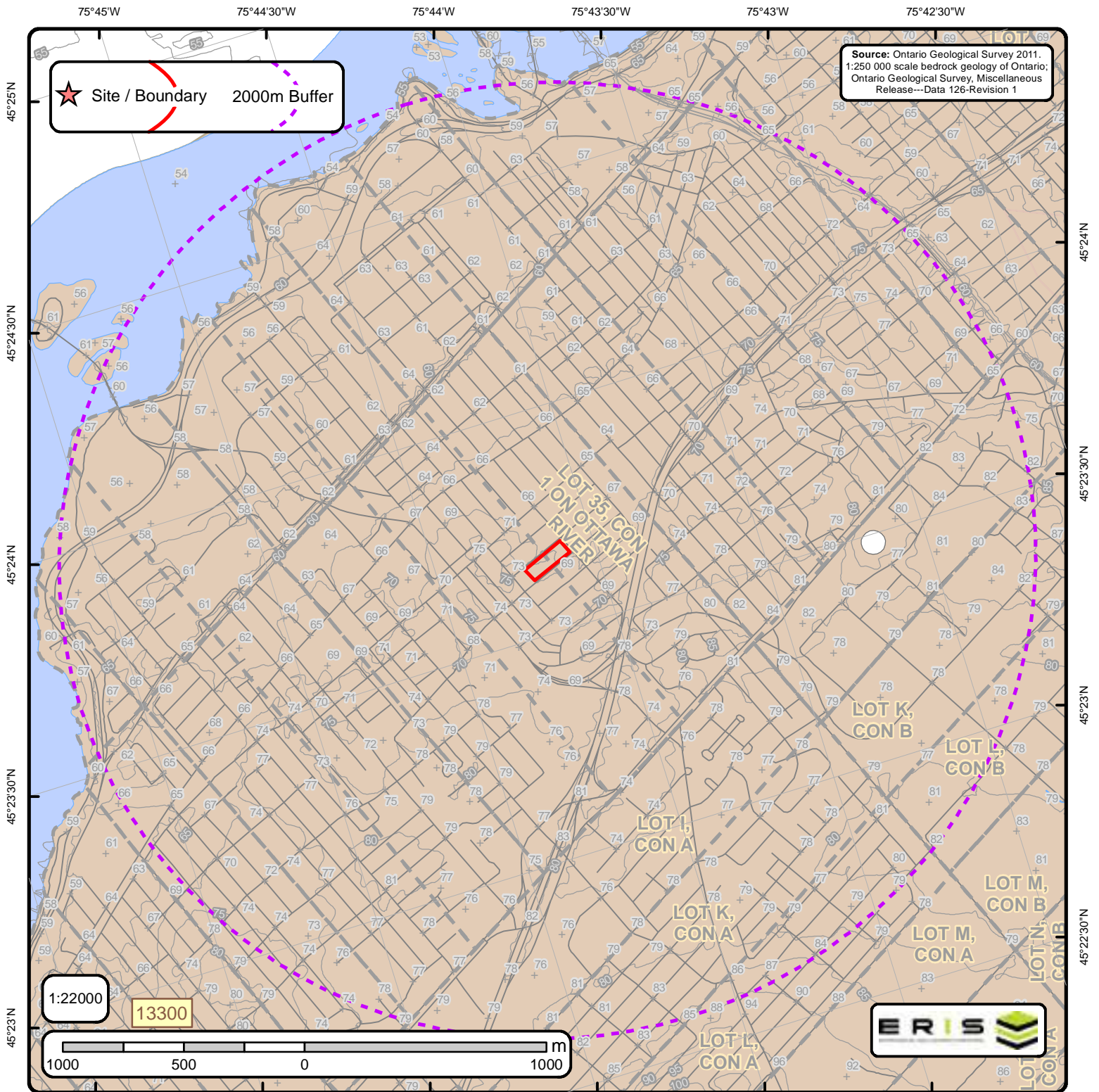
**Provenance** - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

**Carbon Content** - This attribute provides the user with information regarding the carbonate content of till.

**Formation** - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

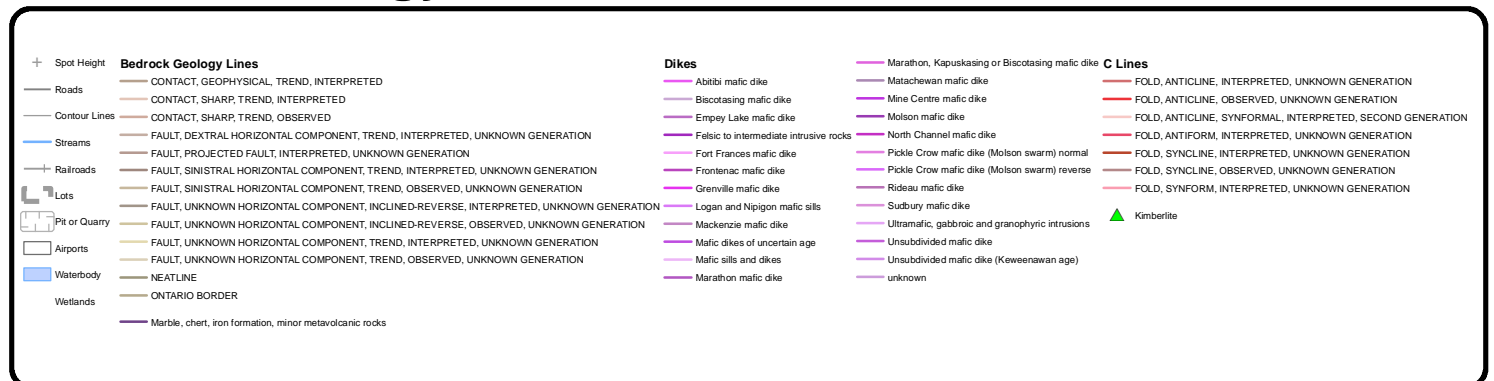
**Permeability** - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

**Material Description** - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



# Bedrock Geology of Ontario

Order No. 20181030014





# Bedrock Geology Report

Bedrock Geology units found within 2000 m of  
49 Iona Street, Ottawa, ON, K1Y 3L8

Page 1  
Order ID:  
20181030014



**ID:** 13300 | **Unit Name:** |  
**Type (All):** 54a | **Type (Primary):** 54a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Limestone, dolostone, shale, arkose, sandstone | **Strata (Primary):** Ottawa Group; Simcoe Group; Shadow Lake Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** MIDDLE ORDOVICIAN (now considered UPPER DEVONIAN) | **Province (Primary):**





# Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126  
Revision1

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



**ID - Unit ID**      **Unit Name** - Generalized geological unit classification

**Type (All)** - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

**Type (Primary)** - The primary geological unit number or code for the primary rock type in an individual polygon

**Type (Secondary)** - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

**Type (Tertiary)** - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

**Rock Type (Primary)** - Rock type or sub-unit description

**Status (Primary)** - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)  
Group (two or more formations)  
Formation (primary unit of lithostratigraphy)  
Member (named lithologic subdivision of a formation)  
Bed (named distinctive layer in a member or formation)

**Super Eon (Primary)** - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

**Eon (Primary)** - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)  
PROTEROZOIC (0.542 Ga to 2.50 Ga)  
PHANEROZOIC (Present to 542.0 Ma)

**Era (Primary)** - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

**Period (Primary)** - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

CAMBRIAN (488.3 Ma to 542.0 Ma)  
ORDOVICIAN (443.7 Ma to 488.3 Ma)  
SILURIAN (416.0 Ma to 443.7 Ma)  
DEVONIAN (359.2 Ma to 416.0 Ma)  
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)  
JURASSIC (145.5 Ma to 199.6 Ma)  
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

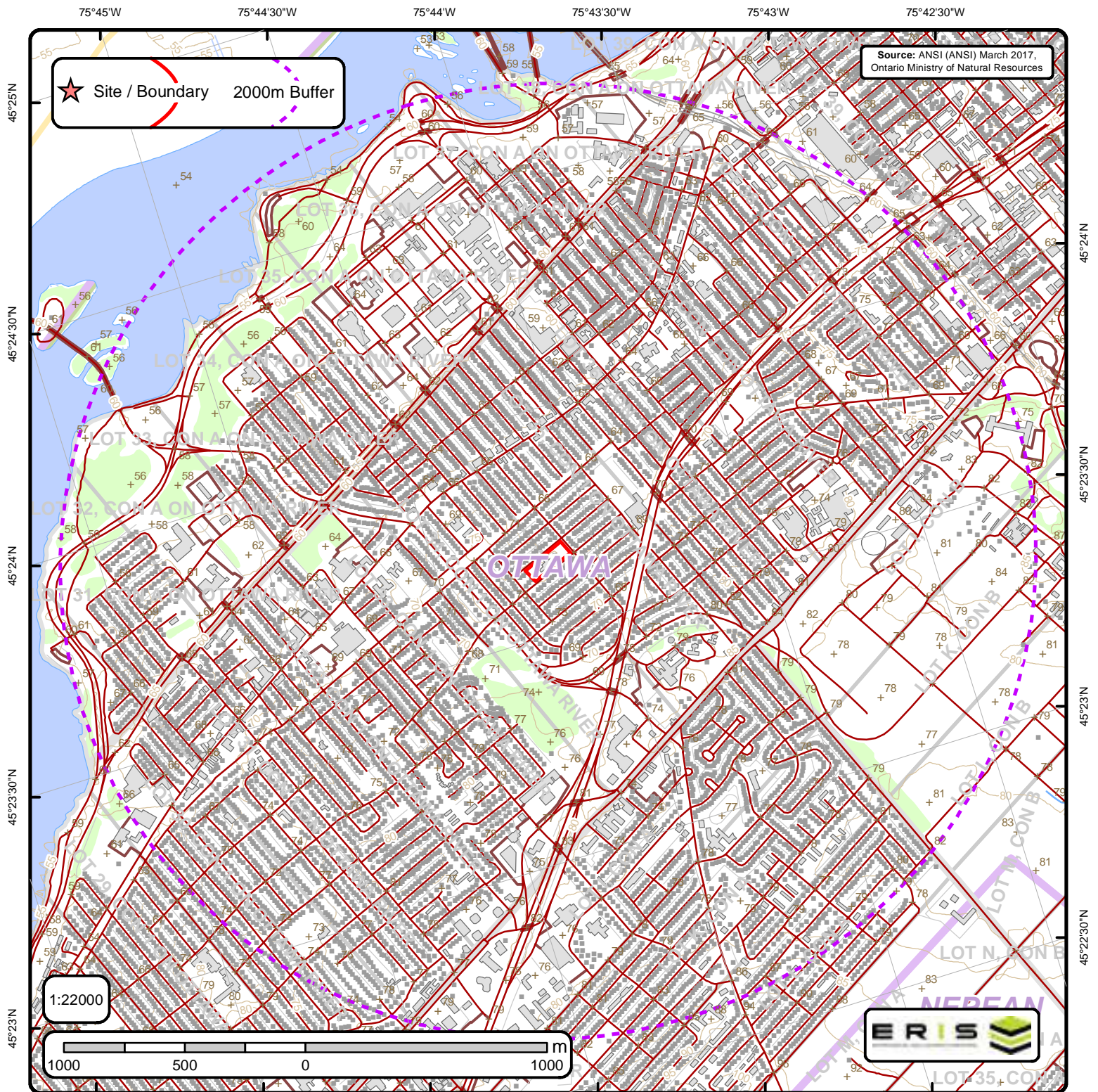
**Epoch (Primary)** - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

**Province (Primary)** - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR  
SOUTHERN  
SUPERIOR  
GRENVILLE





## Area of Natural & Scientific Interest (ANSI) Order No. 20181030014

+	Spot Height	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚡	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership	■	ANSI Area



# ANSI Report

ANSI Units Found within 2000 m of  
100 Main Street, Toronto, ON

Page 1  
Order ID:  
1234567891



No ANSI units found within search area.