



## Phase One Environmental Site Assessment

Report 6: MMM Property 10 and 11  
Twyn Rivers Drive, at Little Rouge Creek and  
Rouge River

Rouge Park  
Scarborough, Ontario

Prepared For: City of Toronto



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17M-00230-00-PH1

Ms. Janice Green  
Environmental Project Manager, Facilities Management  
City of Toronto, Facilities and Real Estate  
55 John Street  
Toronto, Ontario M5V 3C6

Dear Ms. Green,

**Subject: Final Phase One Environmental Site Assessment  
Report 6: MMM Property 10 and 11,  
Rouge Park, Scarborough, Ontario.**

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We are pleased to submit our final report for the Phase One Environmental Site Assessment completed at MMM Property 10 and 11, located at Twyn Rivers Drive, at Little Rouge Creek and Rouge River, Rouge Park, Scarborough, Ontario.

If you have any questions or comments on the report, please contact the undersigned at 905-882-1100.

Yours truly,

**MMM GROUP LIMITED**

A handwritten signature in blue ink that reads 'a park'.

Amanda Park, P. Geo.  
Project Manager  
Environmental Management

**Phase One Environmental Site Assessment**  
**Report 6: MMM Property 10 and 11**  
**Twyn Rivers Drive, at Little Rouge Creek and Rouge**  
**River**  
**Rouge Park**  
**Scarborough, Ontario**

**Prepared For**  
**City of Toronto**

## EXECUTIVE SUMMARY

MMM Group Limited (MMM), a wholly owned subsidiary of WSP Global Inc. (WSP), was retained by the City of Toronto to conduct a Phase One Environmental Site Assessment (ESA) at eighteen parcels of land located within the Rouge National Urban Park (RNUP) in Scarborough, Ontario. Based on a preliminary review of each separate land parcel, it was determined that several parcels can be grouped together based on their relative location to each other within the RNUP. A separate Phase One ESA report was prepared for each of the seven groupings (as identified below).

Phase One ESA Report	MMM Property ID
1	1, 18
2	2, 3
3	4, 5, 6, 7
4	8
5	9
6	10, 11
7	12, 13, 14, 15, 16, 17

This report presents the findings for Phase One ESA Report 6 and includes MMM Property #10 and MMM Property #11 (collectively referred to as the “Subject Property”). The Subject Property is located on the north and south sides of Twyn Rivers Drive in Rouge Park and extends approximately 1.1 km, from west of Rouge River to east of the parking area at Little Rouge Creek. The property details are as follows:

Road Widening	MMM Property ID	Phase 1 ESA Report #	Location of Road Widening	Part of PIN (S)	Legal Description(s)	Draft R-Plan Number
Twyn Rivers Drive	10	6	At Rouge River Crossing	Part 1: 0654-0868 (LT) Part 2: 0654-0868 (LT) Part 3: 06054-0287 (LT) Part 4: 0654-0311 (LT)	Part 1: Part of Road Allowance between Lots 2 & 3, Concession 3  Part 2: Part of Lot 2, Concession 3  Part 3: :Part of Road Allowance between Lots 2 & 3, Concession 3  Part 4: Part of Lot 2, Concession 2	2013-16485-6-1
	11	6	Near sharp turn just north of Little Rouge Creek)	Part 1: 06209-0311 (LT) Part 2: 06054-0868 (LT) Part 3: 06054-0868 (LT) Part 4: 06054-0868 (LT) Part 5: 06054-0868 (LT) Part 6: 06054-0868 (LT) Part 7: 06209-0309 (LT) Part 8: 06209-0309 (LT) Part 9: 06209-0309 (LT) Part 10: 06054-0868 (LT)	Part 1: Part of Lot 2, Concession 2  Part 2: Part of Lot 2, Concession 3  Part 3: Part of Lot 2, Concession 3  Part 4: Part of Lot 2, Concession 3  Part 5: Part of Lot 2, Concession 3  Part 6: Part of Lot 2, Concession 3  Part 7: Part of Lots 1 & 2, Concession 3  Part 8 :Part of Lot 1, Concession 3  Part 9: Par of Lot 1, Concession 3  Part 10: Part of Lots 1, Concession 3	2013-16485-6-2

The objective of the Phase One ESA was to identify actual and potential sources of environmental liabilities associated with the Subject Property and the potential for environmental liabilities to impact soil and/or groundwater at the site. Through meeting this objective, the likelihood of contaminants to be present in soil and groundwater under the Subject Property was considered.

We understand that the Phase One ESA is required for due diligence purposes and to support potential property acquisition of the Subject Property for future roadway and right-of-way widening. Because the Subject Property is not changing to a more stringent land use, the submission of a Record of Site Condition (RSC), as regulated by Ontario Regulation 153/04 made under the *Environmental Protection Act*, is not mandatory. Therefore, the Phase One ESA was conducted to the Canadian Standards Association (CSA) Z768-01 (R2012), which is the accepted standard in the absence of a mandatory RSC.

Based on a review of readily available historical records, topographic and geographic mapping and observations from the site reconnaissance, the potential for impacts to soil and groundwater at the Subject Property is considered to be low:

- ◆ The Subject Property includes undeveloped parcels of land located in Rouge Park with access to walking trails. The Phase One Study Area is located within an area of natural significance.
- ◆ No potentially contaminating activities (PCAs) were identified that would result in areas of potential environmental concern (APECs) at the Subject Property.
  - ◆ There is a potential for salt related impacts (EC/SAR) in soil and groundwater at the Subject Property as a result of the application of road salt on Steeles Avenue East during winter months for de-icing purposes. Under Section 48, Paragraph 3 of O. Reg. 153/04, impacts related to road salt use for municipal roads and de-icing are not considered as contamination under the Standard. Due to the close proximity of the Subject Property to the municipal road, this exemption can be extended to include the Subject Property. The application of road salt on Steeles Avenue East does not result in an APEC at the Subject Property, however, should future construction activities generate excess soil that cannot be managed within the right-of-way, then the excess soil may require disposal offsite at an MOECC approved waste receiving site.
- ◆ PCAs were not identified within the Phase One Study Area.

Based on the findings of this Phase One ESA, Property #10 and Property #11 are suitable for its future intended use as roads and Right-of-Ways (ROWs). No additional environmental investigations are recommended at this time.

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## 1.0 INTRODUCTION

### 1.1 Background

MMM Group Limited (MMM), a wholly owned subsidiary of WSP Global Inc. (WSP), was retained by the City of Toronto to conduct a Phase One Environmental Site Assessment (ESA) at eighteen parcels of land located within the Rouge National Urban Park (RNUP) in Scarborough, Ontario. Based on a preliminary review of each separate land parcel, it was determined that several parcels can be grouped together based on their relative location to each other within the RNUP. A separate Phase One ESA report was prepared for each of the seven groupings (as identified below).

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1	1, 18
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This report presents the findings for Phase One ESA Report 6 and includes MMM Property #10 and MMM Property #11 (collectively referred to as the “Subject Property”). The Subject Property is located on the north and south sides of Twyn Rivers Drive in Rouge Park and extends approximately 1.1 km, from west of Rouge River to east of the parking area at Little Rouge Creek. The property details are as follows:

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The objective of the Phase One ESA was to identify actual and potential sources of environmental liabilities associated with the Subject Property and the potential for environmental liabilities to impact soil and/or groundwater at the site. Through meeting this objective, the likelihood of contaminants to be present in soil and groundwater under the Subject Property was considered.

We understand that the Phase One ESA is required for due diligence purposes and to support potential property acquisition of the Subject Property for future roadway and right-of-way widening. Because the Subject Property is not changing to a more stringent land use, the submission of a Record of Site Condition (RSC), as regulated by Ontario Regulation 153/04 made under the *Environmental Protection Act*, is not mandatory. Therefore, the Phase One ESA was conducted to the Canadian Standards Association (CSA) Z768-01 (R2012), which is the accepted standard in the absence of a mandatory RSC.

## 1.2 Phase One Property Information

The Subject Property includes land on the north and south sides of Twyn Rivers Drive that spans from west of Rouge River to east of the parking area at Little Rouge Creek. The UTM NAD 83 Zone 17 coordinates for the Subject Property are 6482243.52 E and 4852702.05 N.

The following two parcels are discussed in this report:

- ◆ Property #10: Parts 1 and 3 of Part of Road Allowance between Lots 2 & 3, Concession 3, Part 2 of Part of Lot 2, Concession 3, Part 4 of Part of Lot 2, Concession 2, parts 1 and 2 of Property Identification Number (PIN) 0654-0868 (LT), Part 3 of PIN 06054-0287 (LT) and Part 4 of PIN 0654-0311 (LT); City of Toronto.
- ◆ Property #11: Part 1 of Part of Lot 2, Concession 2, Parts 2 to 6 of Part of Lot 2, Concession 3, Part 7 of Part of Lots 1 & 2, Concession 3, and Parts 8 to 10 of Part of Lot 1, Concession 3, part 1 of PIN 06209-0311 (LT), Parts 2 to 6 of PIN 06054-0868 (LT), Parts 7 to 9 of 06209-0309 (LT) and Part 10 of PIN 06054-0868 (LT); City of Toronto.

The Subject Property is located in Rouge Park with access to walking trails. Little Rouge Creek runs northwest-southeast on the east portion of the Subject Property and Rouge River runs north-south on the west portion of the Subject Property. No structures are present on the Subject Property. The area is municipally serviced for natural gas and hydro. A site plan is provided as Figure 2.

## 2.0 SCOPE OF INVESTIGATION

### 2.1 General Objectives

The objective of the Phase One ESA was to obtain and review records and site information for the Subject Property and surrounding areas to evaluate the potential for contaminating activities to have occurred. Information obtained through document searches was verified through observations during the site visit. The Phase One ESA was completed in general accordance with current industry standards, as outlined in the Canadian Standards Association (CSA) Z768-01 (R2012) *Phase I Environmental Site Assessment* to identify actual or potential sources of contamination at the property. The scope of work included the following:

- ◆ Reviewed past screening level reports provided by the TRCA for adjacent properties within the Phase One Study Area to establish an understanding of site conditions and potential environmental concern;

- ◆ Reviewed historical aerial photographs available through on-line City of Toronto Archives and Google Earth imagery for the time period spanning from 1947 to 2005. The aerial photographs were used to identify the first developed use for the Subject Property, identify structures and buildings, and provide information with respect to land use over time;
- ◆ Reviewed topographic and geologic maps for the Subject Property. These sources provide information regarding the stratigraphy of the overburden, and the depth and type of bedrock underlying the Subject Property. They can also identify areas of potential environmental concern such as aboveground storage tanks, pipelines and railways and the potential for the migration of subsurface contaminants;
- ◆ Reviewed database information from Environmental Risk Information Services (ERIS) Ltd. These comprehensive databases provide information with respect to above and underground storage tanks, waste disposal sites, polychlorinated biphenyl (PCB) storage, compliance, convictions and spills, and landfill information;
- ◆ To supplement the information available through the ERIS search, water well records available through the Ontario Ministry of the Environment and Climate Change (MOECC) were reviewed;
- ◆ Reviewed city directories provided by LGI Copy Services Canada and made a request for fire insurance plans (FIPs) through ERIS as they may be required to supplement and confirm the site development history. This information was used to assess the historical ownership/occupants at the Subject Property, and development at the Subject Property and the surrounding lands;
- ◆ Requested available information from the MOECC, and from the Technical Standards and Safety Authority (TSSA), through the Freedom of Information and Protection of Privacy Act. These sources can provide information regarding the presence of fuel storage tanks, approval, permits, Certificates of Approval, MOECC administrative orders (such as control orders, stop orders, remedial orders), and reports submitted to the MOECC;
- ◆ Conducted interviews with persons knowledgeable of site conditions and the history of the Subject Property as made available by the City;
- ◆ Visually inspected the Subject Property to assess current conditions and evaluate the potential for impacts to soil and groundwater at the Subject Property. Adjacent properties within the Phase One Study Area were assessed from publicly accessible boundaries to evaluate the potential for environmental impacts to the Subject Property. Photographs were taken to support pertinent observations; and
- ◆ Prepared a Phase One ESA report documenting the findings, conclusions and recommendations for the Subject Property.

## **3.0 RECORDS REVIEW**

### **3.1 General**

#### **3.1.1 Phase One Study Area Determination**

The ERIS report (Appendix A) and previous investigations did not identify any properties beyond the 0.25 km radius that would be dissimilar to those that were captured within 0.25 km of the Subject Property. Therefore, the identification of potentially contaminating activities resulting in

areas of potential environmental concern would not change through the consideration of properties more than 0.25 km from the Subject Property.

For this investigation, the Phase One Study Area (Figure 2) was limited to the lands wholly or partly within 0.25 km of the Subject Property.

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

The Subject Property is not developed.

### **3.1.3 Fire Insurance Plans**

FIPs were requested for the Subject Property through ERIS. No FIPs were identified for the Subject Property.

### **3.1.4 City Directories**

A search of the city directories was conducted by LGI Copy Services Canada for the Subject Property and properties within the Phase One Study Area from 1980 to 2000. The Subject Property does not have a municipal address, and therefore no records were found. A summary of records identified in the Phase One Study Area are provided in Table 1.

**Table 1: City Directories Information for the Phase One Study Area**

<b>Year</b>	<b>Subject Property</b>	<b>Twyn Rivers Drive</b>
2000	No municipal address	2 Twyn Rivers Drive – Residential
1995	No municipal address	2 Twyn Rivers Drive – Residential
1991	No municipal address	Twyn Rivers Drive – Residential
1985-86	No municipal address	Twyn Rivers Drive – Residential
1980	No municipal address	Twyn Rivers Drive – Street not listed

### **3.1.5 Environmental Reports**

In February 2015, the Toronto and Region Conservation Authority (TRCA) retained Terrapex Environmental Ltd. to complete a Screening Level Review of a road allowance located north of Boydwood Lane, located south of the Subject Property in the Phase One Study Area. No information relating to environmental risk was identified. Based on a review of the report, no environmental impacts were identified at the Subject Property.

## **3.2 Environmental Source Information**

A database report was ordered from ERIS for the Subject Property and included a search of records within a 250 m radius of the study area. The ERIS report is included in Appendix A. Table 2 provides a summary of the results for the Subject Property.

**Table 2: ERS Search Results**

Database	Name	Onsite	Within 250 m
OOGW	Ontario Oil and Gas Wells	0	1
	<b>TOTAL</b>	<b>0</b>	<b>1</b>

The search of the ERS databases did not identify any records on the Subject Property.

One record was identified in the Phase One Study Area.

One record in the Ontario Oil and Gas Wells database for a well drilled on the east portion of the Phase One Study Area for the purpose of geological evaluation or testing. The well was completed by the Ontario Geological Society in 1982, and as of October 2016 the well was identified as plugged and abandoned.

### **3.2.1 Technical Standards & Safety Authority (TSSA)**

A search request to the TSSA found no records for fuel storage tanks at the Subject Property.

### **3.2.1 Freedom of Information (FOI) Search**

A request was made to the Freedom of Information (FOI) Office of the MOECC for any records at the Subject Property. The search did not identify any records for the Subject Property. One incident report was identified for a report to the Spills Action Centre in 2010 for three 4 litre containers of oil disposed of at 55 Twyn Rivers Drive, within the Phase One Study Area. The containers were removed from the area described as a parking lot beside Rouge Valley Bridge and no spills were identified.

## **3.3 Physical Setting Sources**

### **3.3.1 Aerial Photographs**

Aerial photographs obtained through the City of Toronto online archives were reviewed for the years 1947, 1960, 1971, 1981, 1992 and supplemented with imagery from Google Earth for 2005. Aerial photographs were reviewed to identify any potential environmental liabilities associated with the Subject Property and surrounding lands. A summary of observations from the reviewed aerial photography is provided in Table 3.

**Table 3: Aerial Photograph Interpretation**

Year	Activities on Site	Adjacent Properties
1947	Some areas of the Subject Property are heavily treed and others are grass.	<p><u>North</u>: At the sharp turn just north of Little Rouge Creek there is a roadway leading to four large structures and suspected farming activities adjacent to Little Rouge Creek. As well, north of the current parking area on Twyn Rivers Drive there is a large area cleared with two large structures.</p> <p><u>East</u>: Twyn Rivers Drive with residential beyond;</p> <p><u>South</u>: A large area is cleared where the current parking area is, with one structure present. Rouge River and Little Rouge Creek with vacant grassland and heavily forested areas to the southeast;</p> <p><u>West</u>: A driveway leading to five structures north of Twyn Rivers Drive (possible homestead), and a driveway leading to three structures south of Twyn Rivers Drive (possible homestead). The west area is not heavily treed.</p>
1960	As above	<p>Changes from 1947 include</p> <p><u>South</u>: In the area of the current parking lot, a tall structure is evident in this aerial photograph with a bridge going across Little Rouge Creek to an area cleared of trees. Also, a structure is noted off Twyn Rivers Drive in the forested area immediately east of Rouge River;</p> <p><u>West</u>: Presence of tree planting across the grass areas west of Rouge River</p>
1971	As above	Changes from 1960 include the disappearance of some structures west of the Subject Property and the presence of a railway to the northeast.
1981	As above	<p>Changes from 1971 include</p> <p><u>North</u>: All buildings noted north of Twyn Rivers Drive are no longer apparent;</p> <p><u>South</u>: The operations occurring in the area of the current parking lot have ceased and all structures have been removed. The bridge is still in place.</p>
1992	As above	As above
2005	As above	No buildings are noted in the Phase One Study Area and the area is heavily treed.

### 3.3.2 Topography, Hydrology, Geology

Topographic mapping available through the Natural Resources of Canada website (<http://atlas.nrcan.gc.ca>) was reviewed. Topographic map sheet 30M14 of the National

Topographic Database was accessed to review topographic features in the general vicinity of the Subject Property.

The surface topography at the Subject Property ranges from approximately 90 metres above sea level (masl) to 120 masl. The principal local groundwater flow direction is interpreted to be to the south. This interpretation is based on general topography in the area. Rouge River runs along the west portion of the Subject Property, under Twyn Rivers Drive at MMM Property #10. Little Rouge Creek runs along the east portion of the Subject Property, under Twyn Rivers Drive at MMM Property #11. North of the Subject Property, a railway corridor runs northwest-southeast and west of the Phase One Study Area a hydro corridor is present. The topographic maps identifies the Subject Property is located within Rouge Park.

Native soil in the Phase One Study Area consists of clay, silt, sand and gravel alluvium (Ontario Geological Survey, 2010). Based on this information, the surficial soil is likely to have high permeability.

### **3.3.3 Fill Materials**

Based on the records review and site reconnaissance, there is no evidence of fill material at the Subject Property.

### **3.3.4 Water Bodies and Areas of Natural Significance**

Based on a review of the topographic map, Rouge River runs along the west portion of the Subject Property, under Twyn Rivers Drive at MMM Property #10 and Little Rouge Creek runs along the east portion of the Subject Property, under Twyn Rivers Drive at MMM Property #11. Lake Ontario is located approximately 3.75 km to the southeast of the Subject Property.

To determine whether the Subject Property is within an area of natural significance, data from the Ministry of Natural Resources and Forestry Land Information Ontario database was reviewed. Based on our review, the Subject Property is located in Rouge Park, a conservation area, and is part of the provincially significant Rouge River Valley. Therefore, the Subject Property is located within an area of natural significance.

### **3.3.5 Well Records**

Water well records were obtained from the MOECC for the Subject Property and properties within a 250 m radius. A total of two well records were identified in the Phase One Study Area, for abandoned water supply wells installed in 1972. None of the wells were located on the Subject Property. Based on the information provided in the records, grey clay was identified at depths ranging from 11.3 m to 55.8 m with shale bedrock encountered below. Details on the water level were not provided in the well records.

## **4.0 INTERVIEWS**

The Subject Property is vacant and therefore, a representative with site specific knowledge was not identified. The TRCA provided screening level reports available for adjacent properties within the Phase One Study Area that were reviewed as part of the Phase One ESA.

## 5.0 SITE RECONNAISSANCE

### 5.1 General Site Conditions

On March 1, 2017 between the hours of 10:00am and 10:30am, MMM visited the Subject Property and conducted the site reconnaissance. The Subject Property was assessed in a systematic manner by walking around the site and recording visual and olfactory observations. The weather at the time of the site reconnaissance was cloudy and approximately 10°C. Photographs were taken from the Subject Property and publicly accessible lands to document current site conditions. The photographs, along with their description and compass orientation, are included following the text.

The Subject Property is located in Rouge Park on the north and south sides of Twyn Rivers Drive and extends approximately 1.1 km, from west of Rouge River to east of the parking area at Little Rouge Creek. The Subject Property is undeveloped (Photographs 1, 2, 3 and 4).

### 5.2 Adjacent Lands

The Phase One Study Area showing adjacent lands is shown on Figure 2. Adjacent properties were viewed from the Subject Property and publicly accessible boundaries to assess the potential for uses to adversely affect the Subject Property. The following adjacent properties were observed:

- North: Rouge River and Little Rouge Creek run in a heavily forested area with walking trails. A railway is present to the northeast;
- East: Twyn Rivers Drive, residential developments beyond;
- South: Rouge River and Little Rouge Creek run in a heavily forested area with walking Trails. A parking area is located on the south side of Twyn Rivers and is used to access the walking trail;
- West: Twyn Rivers Drive, forested area.

There is a potential for salt related impacts (EC/SAR) in soil and groundwater at the Subject Property as a result of the application of road salt on Twyn Rivers Drive during winter months for de-icing purposes. Under Section 48, Paragraph 3 of O. Reg. 153/04, impacts related to road salt use for municipal roads and de-icing are not considered as contamination under the Standard. Due to the close proximity of the Subject Property to the municipal road, this exemption can be extended to include the Subject Property. Therefore, the application of road salt on Twyn Rivers Drive does not result in an APEC at the Subject Property.

### 5.3 Specific Observations at Phase One Property

#### 5.3.1 Structures

No structures were observed at the Subject Property during the site reconnaissance.

### **5.3.2 Ground Cover**

The ground surface at the Subject Property was generally covered with gravel, grass, shrub and/or trees at the time of the site reconnaissance. A two lane asphalt paved roadway is adjacent to the Subject Property.

### **5.3.3 Underground Utilities**

No buried utilities were observed at the Subject Property during the site reconnaissance.

### **5.3.4 Storage Material/Equipment**

No material or equipment was observed to be stored at the Subject Property during the site reconnaissance.

### **5.3.5 Other Issues of Potential Environmental Concern**

There was no evidence of the following items of potential environmental concern at the Subject Property:

- ◆ Aboveground or underground storage tanks;
- ◆ Pits or lagoons;
- ◆ Unidentified substances;
- ◆ Stressed vegetation;
- ◆ Staining or unusual odours.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

Based on a review of readily available historical records, topographic and geographic mapping and observations from the site reconnaissance, the potential for impacts to soil and groundwater at the Subject Property is considered to be low:

- ◆ The Subject Property includes undeveloped parcels of land located in Rouge Park with access to walking trails. The Phase One Study Area is located within an area of natural significance.
- ◆ No potentially contaminating activities (PCAs) were identified that would result in areas of potential environmental concern (APECs) at the Subject Property.
  - ◆ There is a potential for salt related impacts (EC/SAR) in soil and groundwater at the Subject Property as a result of the application of road salt on Steeles Avenue East during winter months for de-icing purposes. Under Section 48, Paragraph 3 of O. Reg. 153/04, impacts related to road salt use for municipal roads and de-icing are not considered as contamination under the Standard. Due to the close proximity of the Subject Property to the municipal road, this exemption can be extended to include the Subject Property. The application of road salt on Steeles Avenue East does not result in an APEC at the Subject Property, however, should future construction activities generate excess soil that cannot be managed within the right-of-way, then the excess soil may require disposal offsite at an MOECC approved waste receiving site.
- ◆ PCAs were not identified within the Phase One Study Area.

Based on the findings of this Phase One ESA, Property #10 and Property #11 are suitable for its future intended use as roads and Right-of-Ways (ROWs). No additional environmental investigations are recommended at this time.

## 7.0 STANDARD LIMITATIONS

Standard limitations are presented in Appendix B as they apply to this report.

This report has been prepared for use by the City of Toronto in accordance with generally accepted environmental investigation practices at the time of the assessment within the scope suggested by Canadian Standards Association's *Phase I Environmental Site Assessment* document (CSA Z768-01).

## 8.0 ASSESSOR QUALIFICATIONS

The Phase One ESA report was reviewed by Amanda Park, P.Geo. a Project Manager with MMM. Ms. Park is an Environmental Scientist with 12 years of experience in the consulting field. She has completed over 1,000 ESAs for various public and private sector clients including site characterization, Phase I, II and III ESAs, risk assessment, remediation and hazardous materials management.

Site reconnaissance and reporting was completed by Rebecca Wheeler, B.Sc., an Environmental Scientist at MMM. Ms. Wheeler conducts Phase One and Phase Two ESAs including document research, site visits, interviews, and reporting. As well, she implements field investigations, including soil sampling through drilling, test pitting and surface sampling and groundwater monitoring and sampling.

## 9.0 REFERENCES

ANSI obtained from the Ministry of Natural Resources and Forestry Land Information Ontario (LIO) database and is licensed under the Open Government License - Ontario.

Canadian Standards Association (CSA). 2006. Z768-01 *Phase I Environmental Site Assessment*

City of Toronto Aerial Photographs. Date obtained February 2017. Website link <http://www1.toronto.ca/wps/portal/contentonly?vgnextoid=9f53226b48c21410VgnVCM10000071d60f89RCRD#>

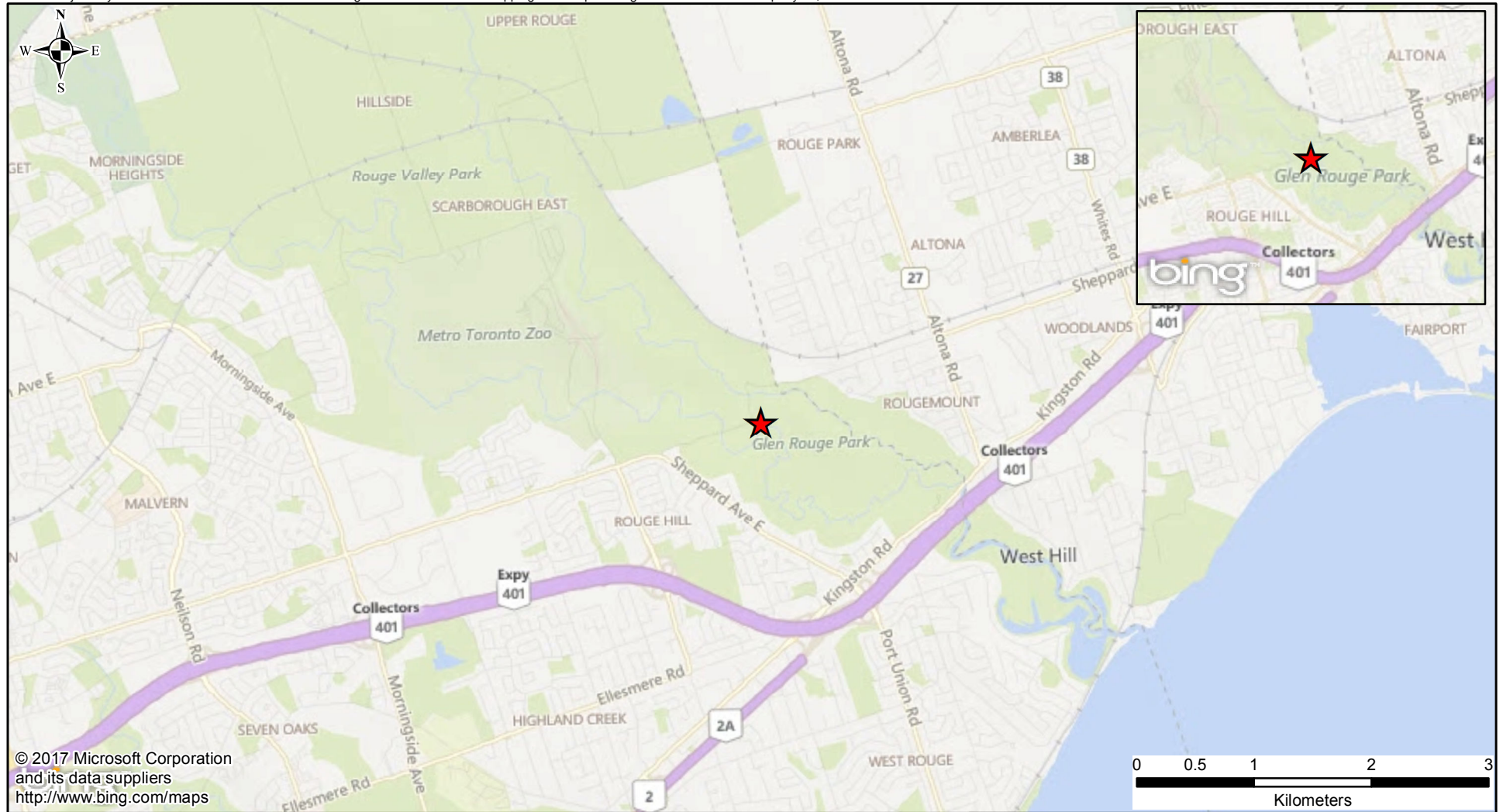
Ontario Geological Survey. 2010. *Surficial geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 128 – Revised*.

Rouge National Urban Park – Screening Level Review for PIN 62090287 – Final, Terrapex Environmental Ltd, February 18, 2015.

The Atlas of Canada: Topographic Maps. National Resources Canada. Map Sheet Number 30M14



Wetlands obtained from the Ministry of Natural Resources and Forestry Land Information Ontario (LIO) database and is licensed under the Open Government License - Ontario.





## Legend

★ Site Location

Client:	City of Toronto	
Title:	Site Location - Property 10, 11	
Prepared By:	 	
17M-00230-00-PH1	Scale as Shown	Review: CR
Date: March 2017	<b>Figure: 1</b>	
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## Legend

### Subject Property

MMM Property ID: 10

MMM Property ID: 11

Study Area - 250m Buffer

Hydro Corridor

Railways

Client:

**City of Toronto**

Title:

**Study Area - Property 10, 11**

Prepared By:



**MMM GROUP**

17M-00230-00-PH1

Scale as Shown

Review: CR

Date: March 2017

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**Figure: 2**

# PHOTOGRAPHS



**Photograph 1: View of Subject Property looking west to Rouge River.**



**Photograph 2: Subject Property at north and south side of Twyn Rivers Drive, facing east.**



**Photograph 3: View of Subject Property looking east from near the Parking Area.**



**Photograph 4: View of Subject Property looking west from near the Parking Area.**

## APPENDIX A – SUPPORTING DOCUMENTATIONS

ESA6

Ministry of the Environment  
and Climate Change

Freedom of Information and  
Protection of Privacy Office

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

Ministère de l'Environnement et de  
l'Action en matière de changement  
climatique

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

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



February 22, 2017

Rebecca Wheeler  
MMM Group  
100 Commerce Valley Dr W  
Thornhill, ON L3T 0A1

FEB 24 2017

Dear Rebecca Wheeler:

**RE: Freedom of Information and Protection of Privacy Act Request**  
**Our File #: A-2017-00752, Your Reference #: Rouge River**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 50 to 55 Twyn Rivers Dr, Toronto.

After a thorough search of the Ministry's Toronto District Office, Investigations and Enforcement Branch, Environmental Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, **records were located** in response to your request. It is my decision to provide full access to the attached information.

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 4 pages @ \$0.20/page	\$0.80
• Delivery	3.00
• <b>Total</b>	<b>\$ 33.80</b>
• Deposit Received	- 30.00
• <b>BALANCE WAIVED (NOT REQUIRED)</b>	<b>\$ 3.80</b>

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



If you have any questions regarding this matter, please contact Daniel Gouthro at [daniel.gouthro@ontario.ca](mailto:daniel.gouthro@ontario.ca).

Yours truly,

FOR Christopher Mastropietro  
FOI Manager (A)

Attachments

## INCIDENT REPORT

Reference Number:	0241-8AMLXB	File Storage Number:	55 TWYN RIVERS DR. - SITO100
Module:	Incident Reporting	Module Type:	Other
Cross Reference:	(doc link)	Task Link:	8422-8AMM7D 
Originating Document:		Created by:	Daniel Izso
Incident Report Reference Number:	0241-8AMLXB 		
Date Created:	2010/10/27	Date Completed:	2012/12/21
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Waste - Hazardous & Liquid industrial	Activity:	Pollution Incident Reports

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

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

☐ Yes
 ☒ No
 ☐ To be determined

[Click here for Guidance](#)

### Caller or PO Information

Reported By:		Name of Company:	
First Name	Last Name	SCB MOE	
Andrew	Rahal		
Contact Mailing Address			
Civic Address:			Unit Identifier:
Delivery Designator:			Delivery Identifier:
Municipality:	Postal Station:	Province/State:	Postal Code:
Oshawa		Ontario	
Telephone Number:	Extension:	Other Number:	Email Address:
(647)228-5837			

Reported By:	
--------------	--

### MOE Information

Date & Time Reported to MOE:	2010/10/27 11:50		
Office Receiving Incident Report:	Spills Action Centre		
Incident Info Received By:	Daniel Izso		
MOE Response:	No Field Response	Site Region:	Central
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			

SAC Action Class:	Pollution Incident Reports (PIRs) and "Other" calls		
Non-Standard Procedure:	No		
ERP Call-out Initiated:	No		

#### Client(s)

Client Details

#### Site(s)

Site Details
Rouge Park - Parking Lot <UNOFFICIAL> Address: Lot: , Part: , 55 Twyn Rivers Drive, Toronto, City, District Office: Toronto - District

#### Incident Information

Incident Summary:	Rouge Park: Three 4L oil containers disposed in park <i>cannot be longer than 60 characters</i>
Incident Description:	<p>11:50 SAC(DI) - SCB (Andrew Rahal, 647-228-5837) reporting improper disposal of oil at Rouge Park. The caller discovered 3 4L containers of oil disposed of next to the most eastern garbage can in the parking lot at 55 Twyn Rivers Drive. The oil is not leaking, but there is potential for a spill.</p> <p>11:56 SAC(DI) to 311 Toronto (Judith) - She will call the parks supervisor Paul Dickenson (416-396-5102) - he will investigate and update SAC. (CSR not created as there was no spill)</p> <p>13:53 SAC(DI) to City of Toronto (Paul Dickenson) - Left message requesting update on clean up.</p> <p>15:33 SAC(DI) to City of Toronto (Paul) - Left message requesting update. located in York durham</p> <p>YDSO Duty Officer Appears to be parking lot beside the Rouge Valley Bridge in Toronto Google earth and googl map confirm.</p> <p>Nov. 1, 2010 at 8:37am I called and spoke with Paul Dickenson who confirmed that the containers were siting in the parking lot. They were removed and taken to the City transfer station. Incident is over and Report is closed.</p>

Links & Comments:	
Attachments Names:	

Date & Time of Incident	Incident Date Confirmation? Actual 2010/10/27 11:50		
Source Type:	Other	Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:	Not Anticipated		
Nature of Impact:	Other Impact(s)		
Incident Cause:	Intent - Intentional or planned occurrence	Incident Reason:	Negligence (Apparent) - Caused by lack of diligence
Damaged Party:	No		

### Contaminants Table

Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]
OIL (PETROLEUM BASED, NOT SPECIFIED)	15	n/a		12	L	

Controller of Material:		Owner of Material:	
Estimated Clean Up Cost:		Who Cleaned Up:	
% Clean Up:	0 %	Agencies Involved:	

### Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> To be determined
--	---------------------------	-------------------------------------	--

### Voluntary / Mandatory Compliance Items

Type	Parent RefNo	Work Summary (may be truncated)	Date	AttainList
------	--------------	---------------------------------	------	------------

### Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description {General Offence}	

#### Provincial Officer:

Name: Lissa deFreitas  
 Badge No: 984

#### Work Unit:

District/Area Office: Toronto District Office  
 Date: 2010/11/01

Signature:

#### Senior Environmental Officer:

Name: Rudy Pirosko

#### Work Unit:

District/Area Office:  
 Date: 2012/12/21

Signature:

Rud/Bro

Ministry of the Environment  
and Climate Change

Freedom of Information and  
Protection of Privacy Office

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

Ministère de l'Environnement et de  
l'Action en matière de changement  
climatique

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

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



February 3, 2017

Rebecca Wheeler  
MMM Group  
100 Commerce Valley Dr W  
Thornhill, ON L3T 0A1

Dear Rebecca Wheeler:

RE: ***Freedom of Information and Protection of Privacy Act Request***  
**Our File # A-2017-00752, Your Reference Rouge River**

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

**The search is being conducted on the following: 50 to 55 Twyn Rivers Dr, Toronto. If there is any discrepancy please contact us immediately.**

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Jeneska Abano at [jeneska.abano@ontario.ca](mailto:jeneska.abano@ontario.ca).

Yours truly,

Christopher Mastropietro  
FOI Manager (A)



# DATABASE REPORT

**Project Property:** *Report 6  
Twyn Rivers Dr  
Toronto ON*

**Project No:**

**Report Type:** *Quote - Custom-Build Your Own Report*

**Order No:** *20170112144*

**Requested by:** *MMM Group Ltd.*

**Date Completed:** *February 2, 2017*

**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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# Executive Summary

## **Property Information:**

**Project Property:** *Report 6  
Twyn Rivers Dr Toronto ON*

**Project No:**

## **Order Information:**

**Order No:** *20170112144*  
**Date Requested:** *January 12, 2017*  
**Requested by:** *MMM Group Ltd.*  
**Report Type:** *Quote - Custom-Build Your Own Report*

## **Additional Products:**

## Executive Summary: Report Summary

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</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	0	0
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
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
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
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	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Boundary to 0.25km</b>	<b>Total</b>
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
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	1	1
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	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	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	N	-	-	-
<b>Total:</b>			0	1	1

## Executive Summary: Site Report Summary - Project Property

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

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

## Executive Summary: Site Report Summary - Surrounding Properties

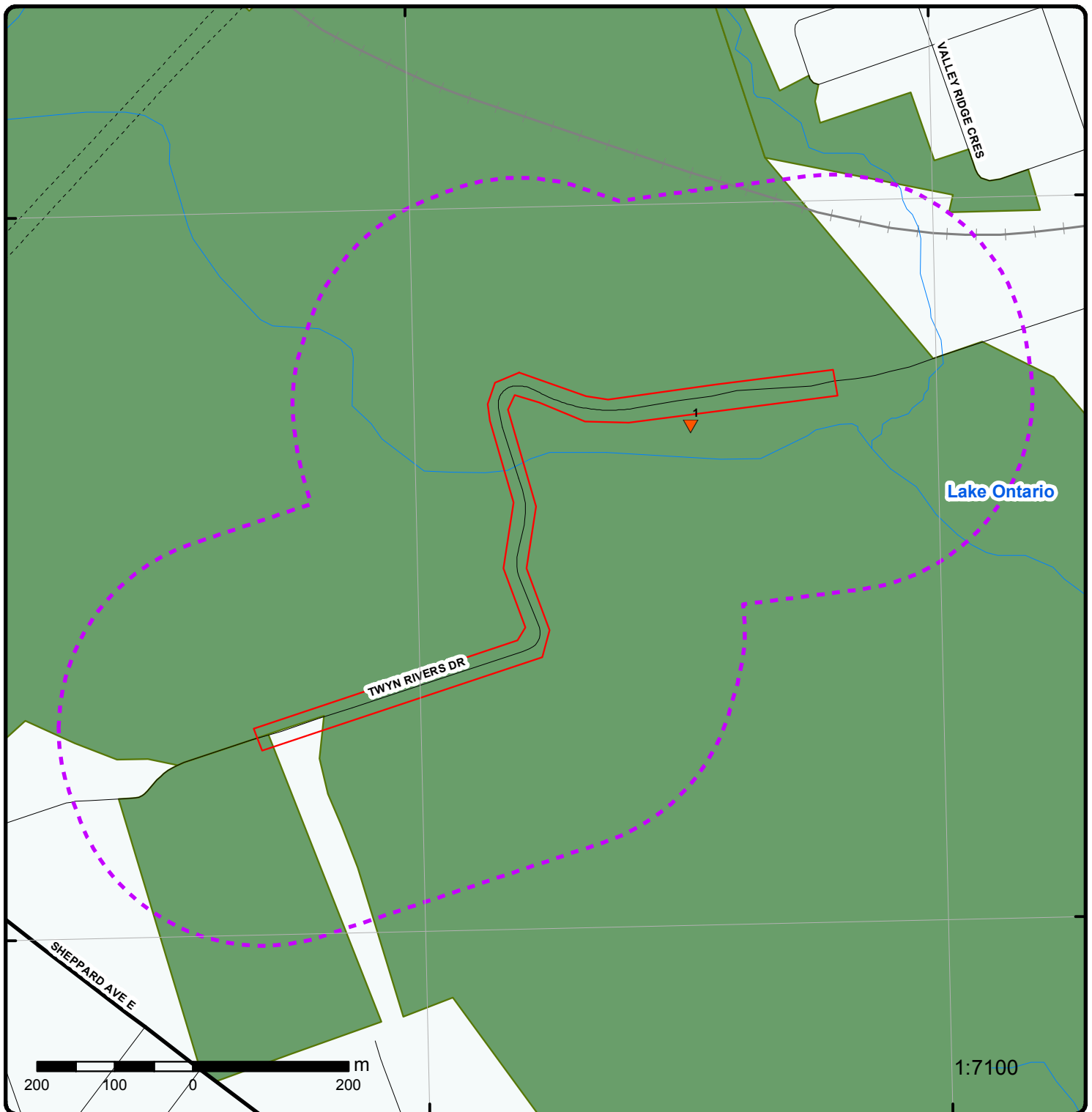
<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<a href="#">1</a>	OOGW	Ontario Geological Survey	City of Toronto ON	S/15.6	-1.57	<a href="#">12</a>

# Executive Summary: Summary By Data Source

## **OOGW - Ontario Oil and Gas Wells**

A search of the OOGW database, dated 1800-Oct 2016 has found that there are 1 OOGW site(s) within approximately 0.25 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>
Ontario Geological Survey	City of Toronto ON	15.6	<a href="#"><u>1</u></a>



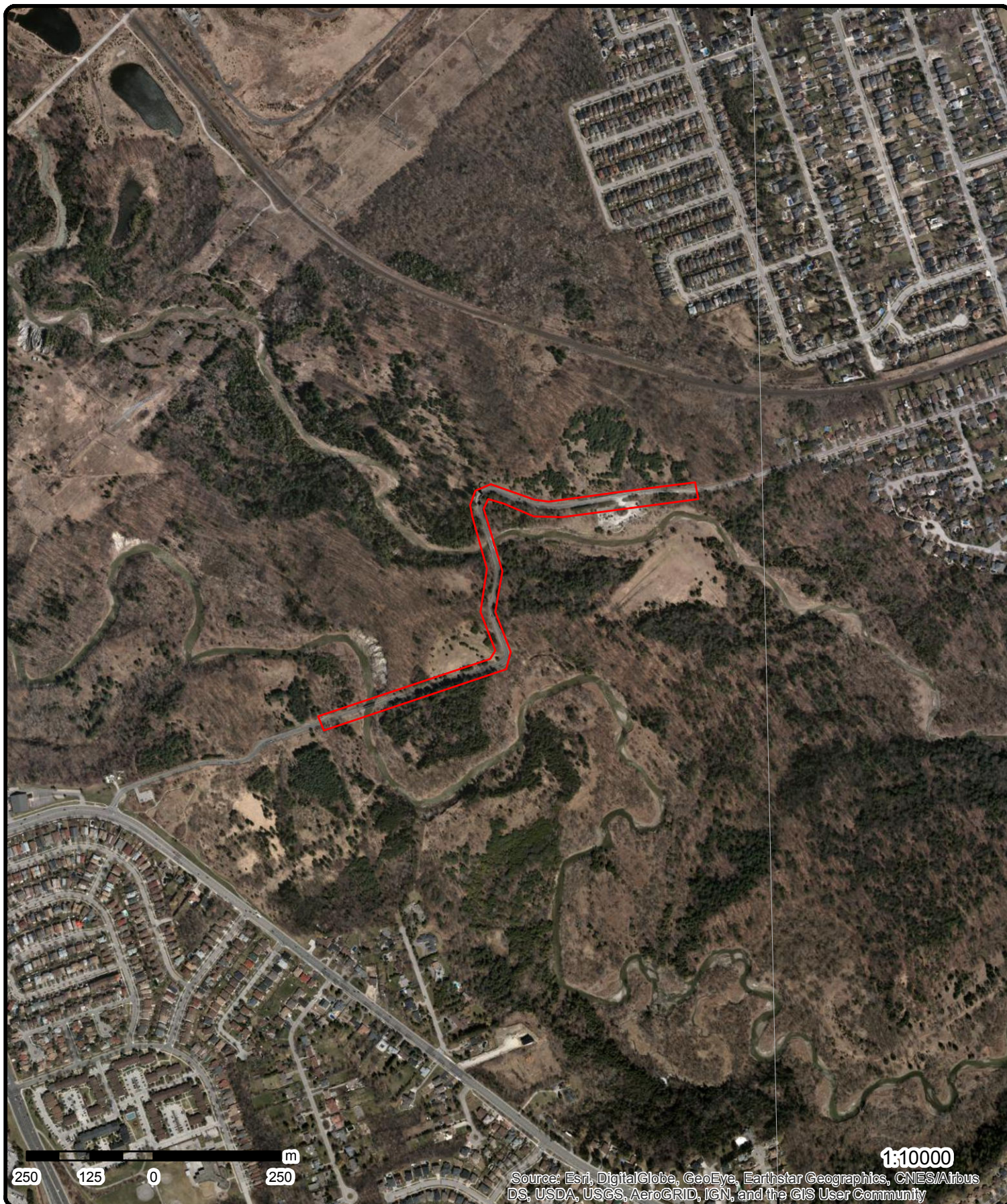
## Map : 0.25 Kilometer Radius

Order No: 20170112144

Address: Twyn Rivers Dr, Toronto, ON



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

Address: Twyn Rivers Dr, Toronto, ON

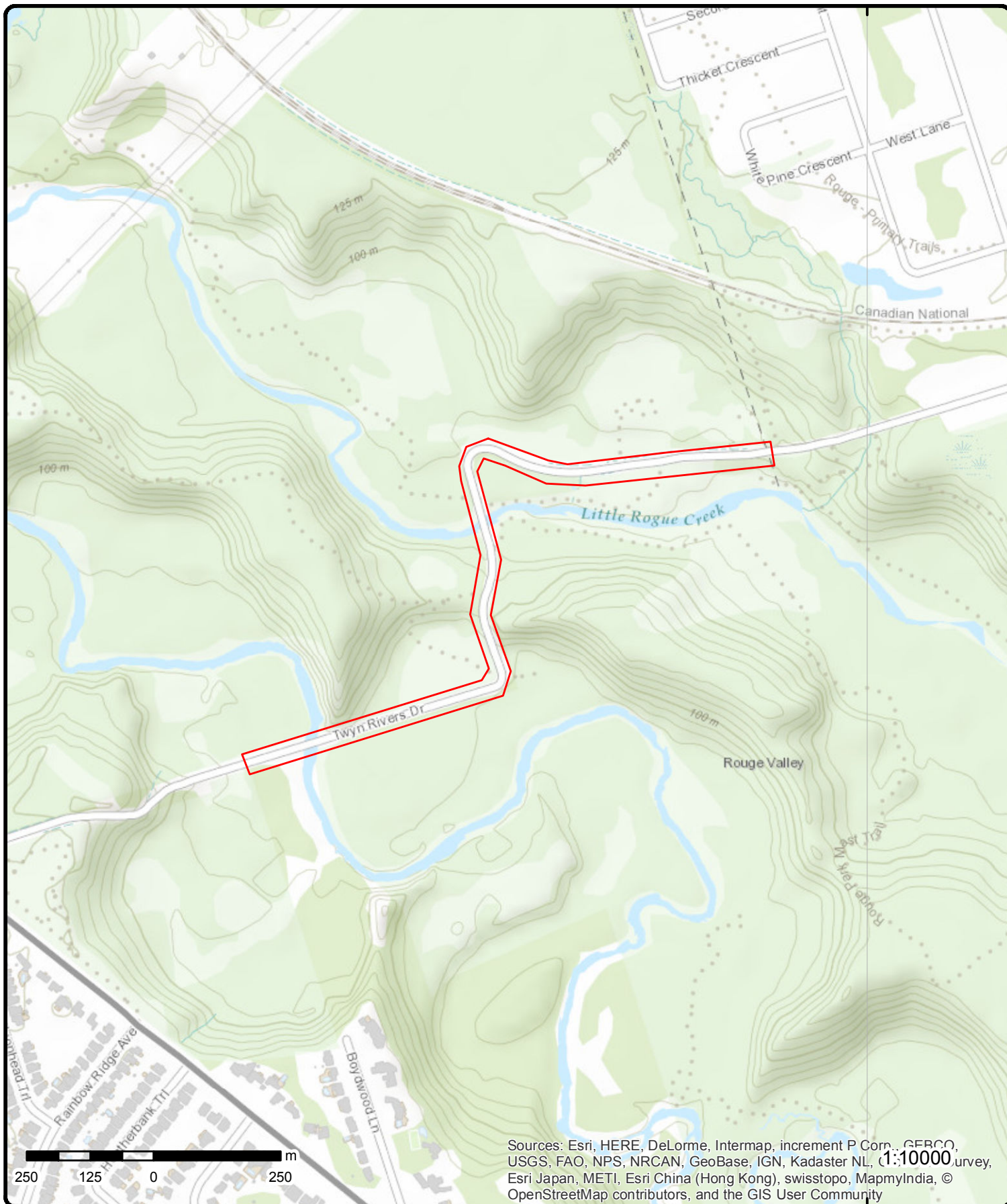
Source: ESRI World Imagery

Order No: 20170112144

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# Topographic Map

**Address:** Twyn Rivers Dr, Toronto, ON

**Source:** ESRI World Topographic Map

Order No: 20170112144



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# Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<a href="#">1</a>	1 of 1	S/15.6	85.5	Ontario Geological Survey City of Toronto ON	OOGW
<div> <div> <b>Well ID:</b>  <b>Well Status Type::</b> Stratigraphic Test  <b>Well Status Mode::</b> Abandoned Well  <b>Status As Of::</b> October 2016  <b>Licence NO:</b> N002894  <b>W Class ID:</b> 2372  <b>UWI Code:</b> N002894  <b>Permit Date:</b>  <b>Depth(m):</b> 56.01  <b>Depth Reached:</b> 1/13/1982  <b>Well Name::</b> OGS S.I.S. No. 1  <b>Status Type Desc:</b> A WELL DRILLED FOR THE PURPOSE OF GEOLOGICAL EVALUATION OR TESTING  <b>Status Mode Desc:</b> A WELL WHICH IS OFFICIALLY PLUGGED AND ABANDONED  <b>Target Desc:</b> ORDOVICIAN  <b>Classification Desc:</b> </div> <div> <b>Lot::</b> 1  <b>Conc:</b> III  <b>Block::</b>  <b>Latitude:</b> 43.81408889  <b>Longitude:</b> -79.15400278  <b>County:</b> Toronto  <b>Target::</b> ORDOVICIAN  <b>Classification::</b>  <b>Capped Date:</b> 1/13/1982  <b>Well Compl ID:</b> 23416 </div> </div>					
<b>--Details--</b>					
<b>Elevation / Top (m):</b>	86.33 / 1.21			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> FORM 7	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Drift	
<b>Elevation / Top (m):</b>	39.01 / 48.53			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> FORM 7	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Trenton Group	
<b>Elevation / Top (m):</b>	86.04 / 1.5			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> MNRF - QA Code	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Trenton Group	
<b>Elevation / Top (m):</b>	83.28 / 4.26			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> FORM 7	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Georgian Bay-Blue Mountain	
<b>Elevation / Top (m):</b>	45.14 / 42.4			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> MNRF	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Cobourg	
<b>Elevation / Top (m):</b>	85.39 / 2.15			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> Sweeney 2014	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Blue Mountain	
<b>Elevation / Top (m):</b>	39.01 / 48.53			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> FORM 7	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Cobourg	
<b>Elevation / Top (m):</b>	86.04 / 1.5			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> MNRF - QA Code	
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b> Cobourg	
<b>Elevation / Top (m):</b>	45.14 / 42.4			<b>Geology/Water:</b> Geology	
<b>Type of Water:</b>	n/a			<b>Source:</b> MNRF	

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance (m)</b>	<b>Elevation (m)</b>	<b>Site</b>	<b>DB</b>
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Trenton Group
<b>Elevation / Top (m):</b>	86.33 / 1.21			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Drift
<b>Elevation / Top (m):</b>	83.28 / 4.26			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Georgian Bay-Blue Mountain
<b>Elevation / Top (m):</b>	83.24 / 4.3			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Top of Bedrock
<b>Elevation / Top (m):</b>	88.54 / -1			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF - QA Code
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Collingwood
<b>Elevation / Top (m):</b>	43.66 / 43.88			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Collingwood
<b>Elevation / Top (m):</b>	83.24 / 4.3			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	FORM 7
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Top of Bedrock
<b>Elevation / Top (m):</b>	43.66 / 43.88			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	MNRF
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Collingwood
<b>Elevation / Top (m):</b>	45.19 / 42.35			<b>Geology/Water:</b>	Geology
<b>Type of Water:</b>	n/a			<b>Source:</b>	Sweeney 2014
<b>Static Level (m):</b>	n/a			<b>Geology Formation:</b>	Cobourg

# Unplottable Summary

Total: **11** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Pt of Lot 35, Blocks 160-162 Plan 66M-2313	Toronto ON	
CA		Lot 3, Conc. 3, Part Block S, Reg. Plan 4566	Toronto ON	
CA	VALERIAN INVESTMENTS INC.	TWYN RIVERS DR.	PICKERING TOWN ON	
CA		Pt of Lot 35, Blocks 160-162 Plan 66M-2313	Toronto ON	
CA		Lot 3, Conc. 3, Part Block S, Reg. Plan 4566	Toronto ON	
CA		Lot 3, Conc. 3, Part Block S, Reg. Plan 4566	Toronto ON	
ECA	The Orchards of West Hill Inc.	Lot Part of Lot 3	City of Toronto ON	
EHS		Rouge Park	Toronto ON	
PTTW	Enbridge Pipelines Inc.	Lot 1-3, Concession 4	Pickering ON	
SPL	MOTOR VEHICLE	TWYN RIVERS DRIVE MOTOR VEHICLE (OPERATING FLUID)	TORONTO CITY ON	
WDS	Optimum Disposal Services Inc.	Part Lot 3, Concession 3	Toronto ON	

# Unplottable Report

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**Site:** *Pt of Lot 35, Blocks 160-162 Plan 66M-2313 Toronto ON* **Database:** *CA*

**Certificate #:** 4525-4MDK24  
**Application Year:** 00  
**Issue Date:** 7/25/00  
**Approval Type:** Municipal & Private water  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name::** Intracorp Developments (Rouge Hill) Ltd.  
**Client Address::** 75 Commerce Valley Drive East  
**Client City::** Thornhill  
**Client Postal Code::** L3T 7N9  
**Project Description::** Watermains to be constructed  
**Contaminants::**  
**Emission Control::**

---

**Site:** *Lot 3, Conc. 3, Part Block S, Reg. Plan 4566 Toronto ON* **Database:** *CA*

**Certificate #:** 7450-4QTU2N  
**Application Year:** 01  
**Issue Date:** 10/22/01  
**Approval Type:** Municipal & Private sewage  
**Status:** Revoked and/or Replaced  
**Application Type:** New Certificate of Approval  
**Client Name::** English Lane Homes Inc.  
**Client Address::** 333 Sheppard Avenue East, Suite 300  
**Client City::** Willowdale  
**Client Postal Code::** M2N 3B3  
**Project Description::** This application is for the installation of sanitary and storm sewers to serve the subdivision on 39 Green Belt Drive in the former City of North York.  
**Contaminants::**  
**Emission Control::**

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**Site:** *VALERIAN INVESTMENTS INC.  
TWIN RIVERS DR. PICKERING TOWN ON* **Database:** *CA*

**Certificate #:** 3-0301-87-  
**Application Year:** 87  
**Issue Date:** 3/27/1987  
**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:** *Pt of Lot 35, Blocks 160-162 Plan 66M-2313 Toronto ON* **Database:** *CA*

**Certificate #:** 6368-4MDJLN  
**Application Year:** 00  
**Issue Date:** 7/25/00  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name::** Intracorp Developments (Rouge Hill) Ltd.  
**Client Address::** 75 Commerce Valley Drive East  
**Client City::** Thornhill  
**Client Postal Code::** L3T 7N9  
**Project Description::** Sanitary sewers and storm sewers to be constructed.  
**Contaminants::**  
**Emission Control::**

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**Site:** *Lot 3, Conc. 3, Part Block S, Reg. Plan 4566 Toronto ON*

**Database:**  
[CA](#)

**Certificate #:** 8511-4QTUD9  
**Application Year:** 00  
**Issue Date:** 11/7/00  
**Approval Type:** Municipal & Private water  
**Status:** Approved  
**Application Type:** New Certificate of Approval  
**Client Name::** English Lane Homes Inc.  
**Client Address::** 333 Sheppard Avenue East, Suite 300  
**Client City::** Willowdale  
**Client Postal Code::** M2N 3B3  
**Project Description::** This application is for the installation of watermain on 39 Green Belt Drive in the former city of North York.  
**Contaminants::**  
**Emission Control::**

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**Site:** *Lot 3, Conc. 3, Part Block S, Reg. Plan 4566 Toronto ON*

**Database:**  
[CA](#)

**Certificate #:** 5139-53NRAJ  
**Application Year:** 01  
**Issue Date:** 10/22/01  
**Approval Type:** Municipal & Private sewage  
**Status:** Approved  
**Application Type:** Amended CofA  
**Client Name::** English Lane Homes Inc. & Don-Green Belt Developments Inc.  
**Client Address::** 333 Sheppard Avenue East, Suite 300  
**Client City::** Willowdale  
**Client Postal Code::** M2N 3B3  
**Project Description::** Certificate to be amended by deleting Easement No. 45 (Green Belt Drive).  
**Contaminants::**  
**Emission Control::**

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**Site:** *The Orchards of West Hill Inc.  
Lot Part of Lot 3 City of Toronto ON*

**Database:**  
[ECA](#)

**Record Type:**  
**PDF URL:** <https://www.accessenvironment.ene.gov.on.ca/instruments/2428-A26RKV-14.pdf>  
**Full Address:** Lot Part of Lot 3, Concession 1 City of Toronto, Ontario  
**CofA Number:** 1528-A84HWM  
**Date:** 2016-03-24  
**Status:** Approved  
**Project Type:** Municipal and Private Sewage Works

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**Site:** *Rouge Park Toronto ON*

**Database:**  
[EHS](#)

**Postal Code:**  
**City:**  
**Address2:**  
**Address1:**  
**Provstate:**  
**Order No.:** 20140806100  
**Addit. Info Ordered::**  
**Report Date:** 08-AUG-14  
**Report Type:** Custom Report  
**Search Radius (km):** .25

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**Site:** **Enbridge Pipelines Inc.**  
**Lot 1-3, Concession 4 Pickering ON**

**Database:**  
**PTTW**

**Year:** 2015  
**EBR Registry No.:** 012-5351  
**Ministry Reference Number:** 1756-A2VUQZ  
**Notice Type:** Instrument Proposal  
**Instrument Type:** (OWRA s. 34) - Permit to Take Water  
**Proposal Date:** October 16, 2015  
**Location:** Lot 1-3, Concession 4, Geographic Township of Pickering Pickering, Regional Municipality of Durham Lot 29-35, Concession 4, Geographic Township of Whitby Whitby, Regional Municipality of Durham Lot 1-11 and 13-29, Concession 5, Geographic Township of Whitby Whitby, Regional Municipality of Durham Lot 12 and 13, Concession 6, Geographic Township of Whitby Whitby, Regional Municipality of Durham CITY OF PICKERING TOWN OF WHITBY  
**Proponent Address:** 10130 103 Street, Edmonton Alberta, Canada T5J 3N7  
**Notice Date:**

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**Site:** **MOTOR VEHICLE**  
**TWYN RIVERS DRIVE MOTOR VEHICLE (OPERATING FLUID) TORONTO CITY ON**

**Database:**  
**SPL**

**Ref NO:** 10250  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Quantity:**  
**Incident Cause::** OTHER TRANSPORTATION ACCIDENT  
**Incident Dt:** 10/7/1988  
**Incident Reason::** ERROR  
**Incident Summary::** GASOLINE SPILLED TO ROAD FROM CAR ACCIDENT  
**MOE Reported Dt:** 10/8/1988  
**Environmental Impact::**  
**Nature of Impact::**  
**Receiving Medium::** LAND  
**SAC Action Class:**  
**Sector Source Type:**  
**Site Municipality:** 1106

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**Site:** **Optimum Disposal Services Inc.**  
**Part Lot 3, Concession 3 Toronto ON**

**Database:**  
**WDS**

**Certificate No.:** 7416-5RFLK9  
**Issue Date:** 5/31/2007  
**Status:** Revoked and/or Replaced  
**Application Status:**  
**Concession:**  
**Lot:**  
**Region/County:**  
**Proponent:**  
**Address:**  
**City:**  
**Facility Type:**  
**District Office:**  
**Municipalities Served:**  
**Total Area (ha):**

**Landfill Capacity (m³):**  
**Landfill Monitoring:**  
**Landfill Control Type:**  
**Est. Closure Date:**  
**Transfer Area (ha):**  
**Transfer Capacity (m³):**  
**Transfer Sites Certificate No.:**  
**Incinerator Area (ha):**  
**Incinerator Capacity (t):**  
**Processing Area (m³):**  
**Processing Capacity (m³/d):**  
**Processing Volume (m³):**  
**Processing Feed (m³):**  
**Mobile Units:**  
**Mobile Description:**  
**Mobile Capacity:**  
**Mobile Unit Certificate No.:**  
**Waste Type:**  
**Waste Type Other:**  
**Waste Class:**  
**Other Approvals/Permits:**  
**Approval Description:**  
**Waste Description:**  
**Site Closing Description:**  
**PDF URL:**  
**Record Type:**  
**Project Type:**

## 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 2016**

### **Abandoned Mine Information System:**

Provincial [AMIS](#)

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

**Government Publication Date: 1800-Oct 2014**

### **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: Oct 31, 2016**

### **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

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

**Government Publication Date: Oct 31, 2016**

**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: Oct 31, 2016**

**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 31, 2012**

**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-Nov 2016**

**Certificates of Property Use:**

Provincial

CPU

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

**Government Publication Date: 1994-Dec 2016**

**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-Aug 2015**

**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-Nov 2016**

**Environmental Registry:**

Provincial

EBR

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

**Government Publication Date: 1994-Dec 2016**

**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-Nov 2016**

**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-Aug 2016**

**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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

**Government Publication Date: May 31, 2014**

**List of TSSA Expired Facilities:**

Provincial

EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

**Government Publication Date: Oct 31, 2016**

**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: June 2000-Oct 2015**

**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-Sept 2003**

**Fuel Storage Tank:**

Provincial

FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

**Government Publication Date:** Oct 31, 2016

**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-Sep 2016

**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 2014

**TSSA Historic Incidents:**

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

**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

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, 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. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

**Government Publication Date:** Oct 31, 2016

**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:** Dec 31, 2013

**Canadian Mine Locations:**

Private

MINE

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

**Government Publication Date: 1998-2009\***

**Mineral Occurrences:**

Provincial

MNR

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

**Government Publication Date: 1846-Feb 2016**

**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, 2014**

**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-Aug 2010**

**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 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: 1993-2014****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-Jun 2016****Ontario Oil and Gas Wells:**

Provincial

OOGW

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

**Government Publication Date: 1800-Oct 2016****Inventory of PCB Storage Sites:**

Provincial

OPCB

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

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

Provincial

ORD

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

**Government Publication Date: 1994-Dec 2016****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****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-Oct 2016**

**TSSA Pipeline Incidents:**

Provincial PINC

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

**Government Publication Date: Oct 31, 2016**

**Private and Retail Fuel Storage Tanks:**

Provincial PRT

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

**Government Publication Date: 1989-1996\***

**Permit to Take Water:**

Provincial PTTW

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

**Government Publication Date: 1994-Dec 2016**

**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: 1986-2013**

**Record of Site Condition:**

Provincial RSC

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

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

**Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016**

**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: Oct 31, 2016**

**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-Jan 2016**

**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: 1990-2014**

**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-Jan 2015**

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

Provincial

VAR

The TSSA, under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

**Government Publication Date: Oct 31, 2016**

**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: 1970-Nov 2016**

**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: Jun 30, 2016**

# 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.



# **STANDARD LIMITATIONS**

## **PHASE I ENVIRONMENTAL SITE ASSESSMENT (PHASE I ESA)**

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*These Standard Limitations form part of the Report to which they are appended and any use of the Report is subject to them.*

### **1. EXCLUSIVE USE BY CLIENT**

This Report was prepared for the exclusive use of the client identified as the intended recipient. Any use of the Report by any other party without the written consent of MMM Group Limited is the sole responsibility of such party. MMM Group Limited accepts no responsibility for damages that may be suffered by any third party as a result of decisions made or actions taken based on the Report.

### **2. SCOPE, TERMS AND CONDITIONS OF CONTRACT**

The observations, investigations and interviews (hereinafter referred to as the "Work") upon which this Report is based were carried out in accordance with the scope, terms and conditions of the contract or the proposal pursuant to which the Work was commissioned. The conclusions presented in the Report are based solely upon the scope of services described in the contract or the proposal and governed by the time and budgetary constraints imposed by them.

### **3. STANDARD OF CARE**

The Phase I ESA was carried out in accordance with generally accepted environmental study and/or professional practices, industry standards and applicable environmental regulations. No other warranties are either expressed or implied with respect to the professional services provided under the terms of the contract or proposal and represented in this Report.

### **4. SCOPE OF THE PHASE I ESA**

A Phase I ESA is conducted as a preliminary determination of the likelihood that contaminants may affect soil or water on the subject property. It is based on a visual assessment of the property and review of existing information as it is reasonably accessible. Sample collection and analyses are not elements of a Phase I ESA. The nature of the Work dictates that findings and conclusions in the Report may not be definitive, and may include qualitative statements based on professional judgement, the observations made and the data reviewed.

### **5. AVAILABILITY OF SITE**

The Work performed was based, in part, on visual observations of the subject property and attendant structures. Findings cannot be extended to portions of the property or structures that were not available for observation at the time of our site reconnaissance due to objects or coverings, or inaccessibility for reasons beyond the control of

MMM Group Limited. The methods of evaluation employed, while intended to minimize the potential for environmental concerns to go undetected, cannot guarantee that such concerns are, in fact, absent. For instance, the absence of contamination in soil can only be confirmed based on a soil sampling and analytical program.

### **6. INFORMATION SUPPLIED BY OTHERS**

The research performed for a Phase I ESA considers information supplied by others (e.g., local, provincial and federal agencies, property owner and/or occupant). All information supplied by others was considered based on professional judgement; however, MMM Group Limited did not verify its accuracy unless specifically noted in the Report. MMM Group Limited does not assume any obligation to update information supplied by others or to confirm that it constitutes all that exists and pertains to the property.

### **7. REASONABLE CONCLUSIONS**

The conclusions of the Phase I ESA regarding the likelihood of contaminant effects on the subject property are based on observations and a review of information from other sources as identified in the Report. The possibility remains that unexpected environmental conditions may be encountered at the property; in which case, MMM Group Limited should be notified in order that we may determine if modifications to the conclusions presented in this Report are necessary.

### **8. REPORT AS A COMPLETE DOCUMENT**

This Report must be read as a whole and sections taken out of context may be misleading. If discrepancies exist between the preliminary (draft) and final versions of the Report, the final version of the Report shall take precedence.

### **9. LIMITATION OF LIABILITY**

MMM Group Limited's liability with respect to the Phase I ESA is limited to re-performing, without cost, any part of the Work that is unacceptable solely as a result of failure to comply with industry standards. MMM Group Limited's maximum liability is limited in accordance with terms in the original contract, provided that notice of claim is made within regulated timelines as of the date of delivery of the Report.