Houle Chevrier Engineering

Phase One Environmental Site Assessment 950 Terry Fox Drive

Ottawa, Ontario

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Submitted to:

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Phase One Environmental Site Assessment 950 Terry Fox Drive

Ottawa, Ontario

September 11, 2014
Project: 14-346

EXECUTIVE SUMMARY

Houle Chevrier Engineering Ltd. (HCEL) was retained by SPB Developments Inc. to carry out a Phase One Environmental Site Assessment (ESA) for the properties located at 950 Terry Fox Drive and the southeast portion of the adjacent property located at 820 Terry Fox Drive in Ottawa, Ontario (hereafter collectively referred to as “the subject property”).

The primary objective of this Phase One ESA was to identify any former or current potentially contaminating activities at the subject property and its vicinity to determine if they create any areas of potential environmental concern on the subject property. This Phase One ESA was carried out in accordance with Ontario Regulation 153/04 made under the Environmental Protection Act and meets the requirements of Part VII (Sections 23 to 31) and Schedule D of the regulation.

Section 1.0 of this report provides a brief description of the site and Section 2.0 of this report provides the scope of investigation. Section 3.0 presents the findings of the records review. Section 4.0 presents the results of the interviews conducted. Section 5.0 presents the findings of the site reconnaissance. Section 6.0 provides a review and evaluation of information gathered. Section 7.0 presents the conclusions and recommendations of the study. Section 8.0 outlines the limitation of liability and Section 9.0 lists the references used.

No potentially contaminating activities were determined to create an area of potential environmental concern (APEC) on the subject property. Based on the available information, it is our opinion that a Phase Two Environmental Site Assessment is not required for the subject property.

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1.0 INTRODUCTION

1.1 Phase One Property Information

Houle Chevrier Engineering Ltd. (HCEL) was retained by SPB Developments Inc. to carry out a Phase One Environmental Site Assessment (ESA) for the properties located at 950 Terry Fox Drive and the southeast portion of the adjacent property located at 820 Terry Fox Drive in Ottawa, Ontario (hereafter collectively referred to as “the subject property”).

The legal description for 950 Terry Fox Drive (parcel A) is Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being the remainder of Instrument Number N765044, part of PIN 04450-1281. The southeastern portion of 820 Terry Fox Drive (parcel B) is also included in this Phase One ESA, as these lands will be purchased in the near future. The legal description for this parcel of land is Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being part of parts 1 & 2 on Plan 5R-2933, part of PIN 04450-0188. The general location of the subject property is illustrated on the Key Plan, Figure 1.

The subject property is presently owned by SPB Developments Inc, formerly known as 3558584 Canada Inc. Parcel B is presently owned by the Mississippi Valley Conservation Authority. The contact for the subject property is Mr. Pierre Bernier at 613-836-8079.

2.0 SCOPE OF INVESTIGATION

The primary objective of this Phase One ESA was to identify any former or current potentially contaminating activities at the subject property and its vicinity to determine if they create any areas of potential environmental concern on the subject property.

This Phase One ESA was carried out in accordance with Ontario Regulation 153/04 made under the Ontario Environmental Protection Act and meets the requirements of Part VII (Sections 23 to 31) and Schedule D of the regulation. The scope of the investigation includes a records review, interviews, a site reconnaissance, an evaluation of the information gathered and reporting. The Phase One ESA report will document and demonstrate how the objectives of the Phase One ESA were achieved and whether further investigation is required.

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

Parcel A, located at 950 Terry Fox Drive in Ottawa, Ontario, has an area of approximately 14.3 hectares (35.4 acres). Parcel B, located at the southeast of 820 Terry Fox Drive, has an area of approximately 0.9 hectares (2.2 acres). The subject property, which includes both parcels of land, has always been vacant agricultural land that has never been developed. Land use in the study area was historically agricultural until residential development began to the north and east between 1974 and 1984. Based on this information, a Phase One ESA study area of 250 metres surrounding the subject property is deemed sufficient for the purpose of this Phase One ESA. The location of the subject property and the extent of the Phase One ESA study area are provided on the Study Area Plan, Figure 2.

No land use outside the 250 metres study area has been identified as a considerable environmental concern to warrant inclusion in the study area.

3.1.2 First Developed Use Determination

Based on a review of the historical information, the subject property has never been developed.

3.1.3 Fire Insurance Plans / Insurance Reports

Based on our knowledge of the area, no fire insurance plans are available for the subject property or the study area because development in the area has only occurred recently.

3.1.4 Chain of Title

A chain of title search for the subject property was provided by Wentzell Titles of Kemptville, Ontario and is included in Appendix A. The legal description for 950 Terry Fox Drive (Parcel A) is Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being the remainder of Instrument Number N765044, part of PIN 04450-1281. The legal description for Parcel B, the land to be purchased, is Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being part of parts 1 & 2 on Plan 5R-2933, part of PIN 04450-0188. The highlights of the chain of title search are described below:

- Both parcels of land were first purchased by Benjamin Bail from the Crown in 1828;
- Parcel A was purchased by 3558584 Canada Inc. in 1998, which later changed its name to SPB Developments Inc.;
- Parcel B was expropriated by the Minister of Natural Resources, now the Mississippi Valley Conservation authority, in 1977.

3.1.5 Environmental Reports

3.1.5.1 Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment was previously conducted for the subject property. The report entitled "Phase I Environmental Site Assessment, West Part of Lot 30, Concession 11, Ottawa, Ontario" was completed by Houle Chevrier Engineering Ltd. in February 2010. The relevant highlights from the ESA are as follows:

- Both properties were vacant at the time the report was written;
- Drainage for the subject property is through runoff to a storm water management pond to the north;
- One (1) minor spill of furnace oil and one historical spill of mineral oil were identified within 250 metres of the subject site;
- A former Canadian Pacific right-of-way and a hydro substation are located south of the subject site;
- No actual or potential issues of environmental concern were identified on the subject site. No further investigation (i.e. Phase II Environmental Site Assessment) was recommended at the time the report was written.

3.2 Environmental Source Information

3.2.1 Ecolog ERIS Database Report

HCEL contacted Ecolog Environmental Risk Information Services Ltd. (Ecolog Eris) to conduct a search of over fifty (50) public and private information databases for the subject property and the area within 250 metres of the subject property. The complete Ecolog Eris report, including a list of databases searched, is provided in Appendix B. All listings were reviewed and the following entries were identified as relevant:

Address / Location	Distance from Subject Site	Company / Name	Database	Description
7 Connelly Place	40 metres north (No precise location available)	-	TSSA Historic Incidents	• Incident involving natural gas pipeline strike at private dwelling; • Incident occurred in 2007.
59 Connelly Place	40 metres north (No precise location available)	-	TSSA Historic Incidents	• Incident involving release of natural gas at private dwelling; • Incident occurred in 2008.

Address / Location	Distance from Subject Site	Company / Name	Database	Description
69 Connelly Place	40 metres north (No precise location available)	-	TSSA Incidents	• Release of carbon monoxide reported at residential dwelling.
Castle Glen Crescent and Castlefrank Road	105 metres northeast	614738 Ontario Inc.	Certificate of Approval	• Certificate of approval for municipal sewage and municipal water issued in 1999.
8 Castle Glen Crescent	170 metres northeast	-	TSSA Historic Incidents	• Incident involving release of natural gas at private dwelling; • Incident occurred in 2009.
		Enbridge Gas Distribution Inc.	Ontario Spills	• Natural gas meter leak; • Incident occurred in 2009.
Castlefrank Road and Connelly Road	200 metres northeast	614738 Ontario Inc.	Certificate of Approval	• Certificate of approval for municipal sewage issued in 1999.
Intersection of Castlefrank Road and Glamorgan Drive	250 metres northeast	City of Ottawa	Certificate of Approval	• Certificate of approval for municipal and private sewage works issued in 2003.
Storm sewer at Castlefrank Road and Glamorgan Drive	250 metres northeast	-	Ontario Spills	• Unknown source of furnace/fuel oil in storm sewer; • Environmental impact listed as possible; • Incident occurred in 2002;
Terry Fox Drive (No precise location provided)	-	Van's Industrial and Specialty Coatings	Ontario Spills	• Spill of 40 litres of diesel fuel to road, ditch, and sewer; • Environmental impact listed as not anticipated; • Incident occurred in 2005.

Address / Location	Distance from Subject Site	Company / Name	Database	Description
Just off Castlefrank Road (No precise location provided)	-	Waste Management of Canada Corporation	Ontario Spills	• Spill of 30 litres of hydraulic oil to road from truck; • Environmental impact listed as not anticipated; • Incident occurred in 2013.
Terry Fox Drive Pad Transformer (No precise location provided)	-	Kanata Hydro	Ontario Spills	• Spill of 150 litres of mineral oil (No PCBs) to ground as a result of a cooling system leak; • Incident occurred in 1988.

3.2.2 City Directories

A review of the city directories from 1964 to 2011 was completed for the subject property (950 Terry Fox Drive and 820 Terry Fox Drive), and several adjacent properties including 5431 Fernbank Road, 560 and 570 Hazeldean Road, and 105 Tapadero Avenue. A copy of the City Directory records is provided in Appendix C. The only listing in the city directory search was 560 Hazeldean Road, which was listed as the Kevin Haime Golf Centre in 2006/2007 and 2011. No potentially contaminating activities were apparent from the review of city directories.

3.2.3 Technical Standards and Safety Authority

The Technical Standards and Safety Authority (TSSA) was contacted on August 21, 2014, to request available records regarding the subject property (820 and 950 Terry Fox Drive), and for the adjacent properties located at 570 Hazeldean Road, 5431 Fernbank Road, 1039 Terry Fox Drive, and 1 Connelly Place. The response from the TSSA indicated that there are no available records for the subject property or any of the above-listed properties. It should be noted that the Fuels Safety Division of the TSSA did not register private fuel underground or above ground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002.

A copy of the search request and the response from the TSSA are provided in Appendix D.

3.2.4 City of Ottawa – Freedom of Information Request

The City of Ottawa was contacted on August 19, 2014, to provide information from the Planning, Transit and the Environment Departments and from the Historical Land Use Inventory (HLUI). A response from the City of Ottawa has not been received at the time this report was written. Upon receipt of the report, the information will be reviewed and if any conclusions to this report

are altered, SPB Developments Inc. will be notified. A copy of the request for information can be found in Appendix E.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Selected aerial photographs were examined as part of this Phase One ESA. Copies of the aerial photographs are provided in Appendix F.

Aerial photographs were obtained at approximately fifteen (15) year intervals and were selected based on suitable scales for analysis and coverage area. The earliest aerial photograph obtained was from 1934. Observations made with respect to the selected aerial photographs are discussed below:

Plate Number	Date	Photograph Number	Observations
F1	1934	A4698_28	• The subject property is vacant agricultural land; • Surrounding land use is predominantly agricultural land; • The Carp River is visible to the north of the subject property. • A wooded area is visible along the east portion of the site.
F2	1945	A9557_39	• The Canadian Pacific Railway (CPR) right of way is visible south of the subject property.
F3	1960	A17264_106	• No significant changes compared to the 1945 aerial photograph.
F4	1974	A23927_41	• Areas of disturbed soil are visible to the north of the subject property on the opposite side of the Carp River.
F5	1984	A26472_18	• The railway line no longer exists and the right of way has been converted to a recreational pathway; • A residential subdivision has been constructed to the north and northeast of the subject property on the opposite side of the Carp River; • A stormwater management pond is visible directly to the north of the subject property.

Plate Number	Date	Photograph Number	Observations
F6	2011	geoOttawa	• The wooded area to the east of the subject property is no longer visible; • The residential development to the north of the subject property has expanded; • What is presently known as Terry Fox Drive has been constructed; • The stormwater management pond has increased in size.

Based on the review of selected historical aerial photographs, the subject property has never been developed. Land use in the study area was historically agricultural until between 1974 and 1984 when residential development began to the north of the subject property. A railway right of way was visible to the southeast of the subject property starting in the 1945 aerial photograph and was later removed and converted into a recreational pathway.

3.3.2 Topography, Hydrology and Geology

A topographic map based on Ontario Basic Mapping is provided on the Topographic Map, Figure 3. The subject property has a relatively flat topography and is at an elevation of approximately 96 metres above sea level. Surrounding topography generally slopes gradually downwards towards the Carp River, which is located to the north of the subject property.

Surficial and bedrock geology maps of the Ottawa area indicate that the overburden in the vicinity of the subject property generally consists of offshore marine sediments (sand and silt) with a thickness ranging from 15 to 25 metres. The bedrock is mapped as interbedded Paleozoic limestone and dolostone of the Gull River Formation.

Groundwater flow often reflects topographic features and typically flows toward nearby lakes, rivers and wetland areas. Based on the topography of the area, it is expected that the local shallow groundwater flow is towards the north.

3.3.3 Fill Materials

No fill material was observed on the subject property. Piles of fill material were observed on the property located to the southwest of the subject property. This fill material was placed sometime after 2011 as no disturbed areas of soil were observed in the 2011 aerial photograph.

3.3.4 Water Bodies and Areas of Natural Significance

No provincially significant wetlands (PSWs) or areas of natural and scientific interest (ANSIs) were identified on the subject property or within the study area. A map created using the Mississippi Valley Conservation Authority map data indicated that one (1) watercourse was

located on the subject property, and that two (2) watercourses are located in close proximity to the subject property. Several creeks and wetland areas were observed on the subject property during the site reconnaissance. A copy of the map from the MVCA is provided in Appendix G.

3.3.5 Well Records

A copy of the Ministry of Environment (MOE) Well Records for a 750-metre radius from the centre of the subject property is provided in Appendix H. Nine (9) wells were identified within this search radius. The locations of the adjacent water wells, based on the UTM coordinates provided in the water well records, have been plotted on Figure 3 following the text of this report. The average depth to the water table based on the static water levels available from the MOE well records is 5.3 metres below ground surface.

The MOE well records indicate that the stratigraphy of the overburden in the area generally consists of a layer of clay or sand. Only three (3) of the wells were advanced to a depth where bedrock was encountered. These wells encountered limestone bedrock at an average depth of 6.7 metres below ground surface.

3.3.6 Site Operating Records

No site operating records were available for the subject property as it has never been developed.

4.0 INTERVIEWS

An interview was carried out with a person familiar with the subject property. Details of the interview are summarized in the following sections.

4.1 Interview with Property Owner

An interview was carried out by telephone with Mr. Pierre Bernier, Owner and CEO of Metric Homes, on September 8, 2014. Mr. Bernier was identified as an interview candidate because he has been involved with the subject property since 1982, and has owned the property since approximately 1993. The following relevant information concerning potentially contaminating activities and areas of potential environmental concern were noted:

- Mr. Bernier indicated that the site has always been vacant and has never been developed;
- No materials, soil, or other products were ever stored on the subject property;
- Mr. Bernier indicated that natural gas, hydro, water and sewer services are available in the area. The City of Ottawa has constructed sanitary sewer connections along the southeastern portion of the subject property;
- He is not aware of any potentially contaminating activities that have taken place on the subject property.

4.2 Assessment and Evaluation of Interview

The information provided in the interview is consistent with other information sources in that the subject property has always been vacant undeveloped land.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

A site reconnaissance was carried out on September 8, 2014 from 10:00 am to 11:30 am. The weather at the time of the site reconnaissance was clear with a temperature of approximately 21 degrees Celsius.

The primary assessor for this Phase One Environmental Site Assessment, Samantha Sabo, has completed the Associated Environmental Site Assessors of Canada (AESAC) Phase I Environmental Site Assessment Training Course. She possesses a formal education, which includes a Bachelor of Science with a major in Environmental Science and a Master of Environment in Environmental Assessment. This formal education has provided her with the knowledge and expertise with which to identify sources of environmental concern and evaluate their potential to cause environmental contamination. In addition, Samantha has successfully completed Workplace Hazardous Materials Information System (WHMIS) training.

The Phase One ESA was carried out under the supervision of Mr. Craig Houle, M.Eng., P.Eng., a registered Professional Engineer in the Province of Ontario to ensure that the Phase One ESA has been carried out to meet the objectives and requirements of Ontario Regulation 153/04. Mr. Houle is a registered Qualified Person to conduct environmental site assessments and file Record of Site Condition applications.

5.1.1 Site Photographs

Photographs of the subject property were taken during the course of the site reconnaissance to document the general condition of the subject property and any areas of potential environmental concern. The relevant photographs are presented in Appendix I. A discussion of the photographs is provided in the following table:

Plate Number	Compass Orientation	Description
I1	Northwest	View of the subject property from the Trans-Canada trail located to the southeast. The subject property is heavily treed and vegetated.
I2	East	View of the subject property from a berm located to the southwest of the subject property.
I3	West	View of the drainage ditch along the northeastern portion of the subject property.

5.2 Specific Observations at Phase One Property

5.2.1 Onsite Structures

No structures were observed on the subject property.

5.2.2 Observations

The following observations were made for the subject property:

- The subject property consists of vacant undeveloped land that is heavily vegetated with trees, shrubs, flowers, and other vegetation;
- A drainage ditch is located along the northeastern portion of the subject property;
- Several wetland areas were observed across the subject property. It is not known whether these areas are permanently wet or whether they are ephemeral wetlands;
- No distressed vegetation was observed at the time of the site reconnaissance;
- No evidence of storage tanks, spills, or other potentially contaminating activities were observed on the subject property.

5.2.3 Site Services

Sanitary sewer manholes were observed along the southeastern edge of the subject property. No other services are present on the subject property.

5.3 Specific Observations within the Study Area

5.3.1 Services

Overhead hydro poles were observed to the northeast of the subject property as well as along the Trans-Canada Trail located to the southeast of the subject property. A drainage ditch was observed along Terry Fox Drive on the southwestern side. Residential homes in the area are heated by natural gas. Sewers are present in the study area.

5.3.2 Water Bodies and Areas of Natural Significance

Several streams and wetland areas were observed on the subject property. It is not known whether these streams or wetlands are permanent or ephemeral in nature. A stormwater management pond was observed to the north of the subject property. No areas of natural significance were observed on the subject property.

5.3.3 Surrounding Properties

The following general observations were made for the properties surrounding the subject property:

- Residential homes were observed to the northwest, north, and northeast. Construction of new residential homes was observed to the southeast of the subject property;

- Agricultural land is located to the southwest of the subject property;
- Piles of fill material were observed on 570 Hazeldean Road, the property located adjacent to the southeast of the subject property.

5.4 Enhanced Investigation Property

The Phase One ESA property is not an enhanced investigation property, since the available information indicates that the subject property has never been used as a commercial garage, gasoline outlet or dry cleaning facility.

5.5 Written Description of Investigation

The site reconnaissance was carried out on September 8, 2014, by Ms. Samantha Sabo, B.Sc., M.Env. of Houle Chevrier Engineering Ltd. The site reconnaissance was carried out to determine if there were environmental concerns with the subject property and/or surrounding property uses.

A detailed written description of the investigation and the results of the site reconnaissance investigation are provided in Sections 5.1 to 5.4.

No potentially contaminating activities were identified on the subject property during the site reconnaissance.

The following potentially contaminating activity was identified in the study area during the site reconnaissance:

- Piles of fill material located at 570 Hazeldean Road.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses

Current and past uses of the subject property are documented in the following table:

Year	Owner	Description of Property Use	Observations
1828 to 1936	Benjamin Bail and others	Unknown (Likely Agricultural)	No aerial photographs prior to 1936 were available for review.
1936 to present	John Wall and others Parcel A: SPB Developments Inc. (current owner) Parcel B: Mississippi Valley Conservation Authority (current owner)	Agricultural (Vacant)	According to the chain of title, city directory search, and aerial photographs the property was never developed.

6.2 Potentially Contaminating Activities

Potentially contaminating activities within the Phase One ESA study area and the likelihood for creating an area of potential environmental concern (APEC) on the subject property are as follows:

PCA and Location	Description	Likelihood of Creating APEC	Rationale
Former railway located to the southeast of the subject property	A railway was observed to the southeast of the subject property in the aerial photographs. The railway was later removed and replaced by a recreational pathway.	Low	Based on: • The potential impacts from railway use being limited to the right of way, which is not located on the subject property; • The conversion of the railway and right of way to a recreational pathway, which likely involved the removal of railway spurs and other materials.
Fill material piles at 570 Hazeldean Road	Piles of fill material were observed to the southwest of the subject property.	Low	Based on the fill material not being located on the subject property.

PCA and Location	Description	Likelihood of Creating APEC	Rationale
Natural gas pipeline strike at 7, 59 and 69 Connelly Place	Incidents involving a natural gas pipeline strike at private dwellings.	Low	Based on release of natural gas to air.
Natural gas leak at 8 Castle Glen Crescent	Leak of natural gas at a private dwelling.	Low	Based on release of natural gas to air.
Spill at the Corner of Castlefrank Road and Glamorgran Drive	Unknown source of furnace / fuel oil observed in storm sewer in 2002.	Low	Based on distance from subject property (250 metres northeast).
Spill on Terry Fox Drive (No precise location)	Spill of 40 litres of diesel fuel to road, ditch, and sewer in 2005.	Unknown	No information on the location of the spill was provided.
Spill on Castlefrank Road (No precise location)	Spill of 30 litres of hydraulic oil to road from truck in 2013.	Unknown	No information on the location of the spill was provided.
Terry Fox Drive Pad Transformer (No precise location)	Spill of 150 litres of mineral oil (no PCBs) to ground as a result of a cooling system leak in 1988.	Unknown	No information on the location of the spill was provided.

6.3 Areas of Potential Environmental Concern

No areas of potential environmental concern on the subject property were identified.

The available information was reviewed in a comprehensive manner starting with available historical information, followed by the results of the site reconnaissance and finally the results of the interviews. These three components were evaluated using our professional experience, judgment and available documentation including guidelines to determine potentially contaminating activities. Available historical records were cross-referenced with other records to verify their accuracy. The observations from the site reconnaissance and information provided through the interview validated the available historical records for the subject property, and vice versa. The potentially contaminating activities were then reassessed using our professional experience and judgment in order to identify the areas of potential environmental concern on the subject property. In combination, the factual review of available historical records and application of professional judgment have led to a thorough analysis that is sufficient for the purposes of the Phase One ESA.

6.3.1 Discussion of Uncertainty

There is uncertainty associated with the location of the spills described in the Ecolog ERIS report. No detailed spills reports were available to assess the potential impacts to the site.

6.4 Phase One Conceptual Site Model

The required details of the Phase One Conceptual Site Model are presented on Figure 2 and Figure 3 as noted in the following table:

Conceptual Model Detail	Figure
Existing Buildings and Structures	Study Area Plan, Figure 2
Water Bodies	Topographic Map, Figure 3
Areas of Natural Significance	Not Present within the Phase One Study Area
Drinking Water Wells	Topographic Map, Figure 3
Roads	Study Area Plan, Figure 2
Adjacent Property Use	Study Area Plan, Figure 2
Potentially Contaminating Activities	Study Area Plan, Figure 2
Areas of Potential Environmental Concern	Not Present within the Phase One Study Area

6.4.1 Underground Utilities

There is potential for underground utilities to affect contaminant transport on or to the subject property, if contaminants are present. Sewer and water lines have been installed along the southeastern portion of the site.

6.4.2 Geological and Hydrogeological Information

Surficial and bedrock geology maps of the Ottawa area indicate that the overburden in the vicinity of the subject property generally consists of offshore marine sediments (sand and silt) with a thickness ranging from 15 to 25 metres. The bedrock is mapped as interbedded Paleozoic limestone and dolostone of the Gull River Formation.

Groundwater flow often reflects topographic features and typically flows toward nearby lakes, rivers and wetland areas. Based on the topography of the area, it is expected that the local shallow groundwater flow is towards the north.

6.4.3 Discussion of Uncertainty

There is uncertainty associated with the permanence of the wetland areas located on the subject property. This could affect the transport of contaminants across the site, however; no areas of potential environmental concern were identified on the subject property.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The available information was reviewed in a comprehensive manner starting with available historical information, followed by the results of the site reconnaissance and interviews. These three components were evaluated using our professional experience, judgment and available documentation including guidelines to determine potentially contaminating activities. Using site-specific geological and hydrogeological information, we determined the likelihood of contamination on the subject property due to the potentially contaminating activities in order to establish areas of potential environmental concern. The identification of areas of potential environmental concern was guided by our professional experience and judgment. This analysis constitutes a comprehensive review of the available information and factual data that is sufficient for the purposes of the Phase One ESA.

No potentially contaminating activities were determined to create an area of potential environmental concern (APEC) on the subject property. Based on the available information, it is our opinion that a Phase Two Environmental Site Assessment is not required for the subject property.

The Phase One Environmental Site Assessment has been carried out by the qualified personnel and reviewed by the undersigned. This Phase One ESA was carried out in accordance with Ontario Regulation 153/04 made under the Environmental Protection Act and meets the requirements of Part VII (Sections 23 to 31) and Schedule D of the regulation.

We trust this report provides sufficient information for your present purposes. If you have any questions concerning this report, please do not hesitate to contact our office.

Samantha Sabo, B.Sc., M.Env.
Environmental Scientist

Craig Houle, M.Eng., P.Eng.
Principal

8.0 LIMITATION OF LIABILITY

The results of this Phase One ESA should in no way be construed as a warranty that the subject property is free from any and all contaminants other than those noted in this report, nor that all compliance issues have been addressed.

This report was prepared for the exclusive use of SPB Developments Inc. and is based on data and information collected during the Phase One ESA of the property conducted by Houle Chevrier Engineering Ltd. This report may not be relied upon by any other person or entity without the express written consent of Houle Chevrier Engineering Ltd. and SPB Developments Inc. In evaluating this site, Houle Chevrier Engineering Ltd. has relied in good faith on information provided by others. We accept no responsibility for any deficiencies or inaccuracies in this report as a result of omissions, misinterpretations, or fraudulent acts of others.

The assessment of environmental conditions and possible site hazards presented has been made using the available historical and technical data collected and provided by others. The conclusions provided herein represent the best judgment of Houle Chevrier Engineering Ltd. based on current environmental standards. Due to the nature of the investigation and the limited data available, we cannot warrant against undiscovered environmental liabilities.

The scope of the Phase One ESA is sufficient to identify existing and/or potential environmental liabilities that are obvious from visual examination of surface features and from available sources of information. This level of work is a method of risk reduction, not risk elimination. No building materials, water, liquid, gas, products or chemical sampling and/or testing on or in the vicinity of the subject property was carried out as part of this assessment. The Phase One ESA does not include a program of intrusive observation/testing. These activities would be carried out as part of a Phase Two ESA. This environmental assessment included only a cursory overview of the neighbouring land uses from public right of ways and from the subject property and does not constitute a complete assessment of the adjacent sites.

9.0 REFERENCES

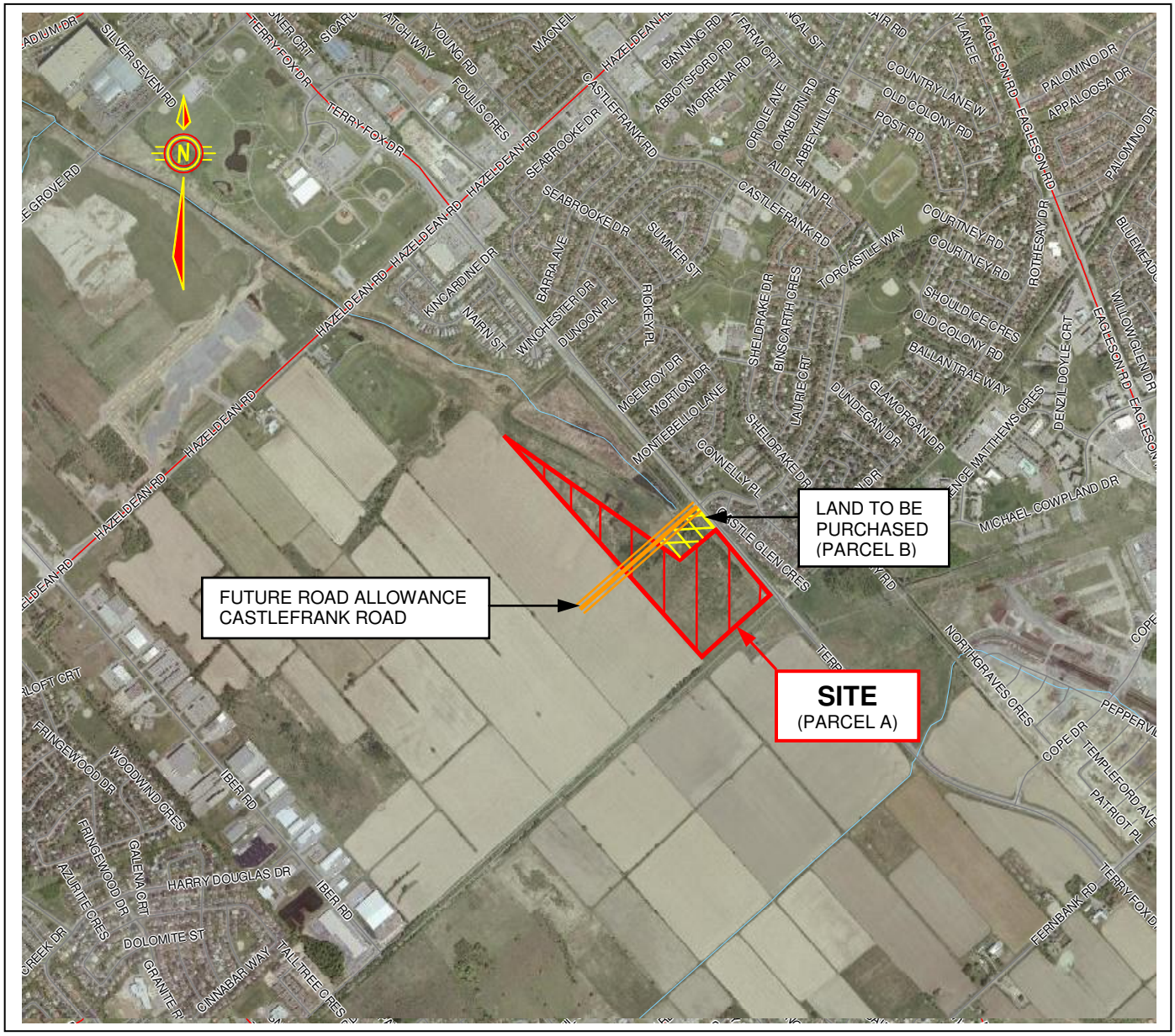
Geography Network Canada. Ontario Basic Mapping (http://www.geographynetwork.ca/website/obm/viewer.htm). October 2004.

Geological Survey of Canada. Urban Geology of the National Capital Region (http://gsc.nrcan.gc.ca/urbgeo/natcap/index_e .php). November 5, 2007.

Ontario Ministry of the Environment. Ontario Regulation 153/04, Made under the Environmental Protection Act, Part XV.1 – Records of Site Condition. October 31, 2011.

Houle Chevrier Engineering Ltd. Phase I Environmental Site Assessment, West Part of Lot 30, Concession 11, Ottawa, Ontario. February 2010. Reference Number 10-029.

SITE LOCATION	FIGURE 1



N.T.S

Houle Chevrier Engineering

Date: September 2014

Project: 14-346

LEGEND

SUBJECT PROPERTY

250 METRE BUFFER SHOWING EXTENT OF STUDY AREA

OFF-SITE POTENTIALLY CONTAMINATING ACTIVITIES:

PILES OF FILL MATERIAL

FORMER RAILWAY LINE

SPILL OF LIQUID FUEL

Drawn By	Checked By
D.J.R.	S.S.

Date
September 2014

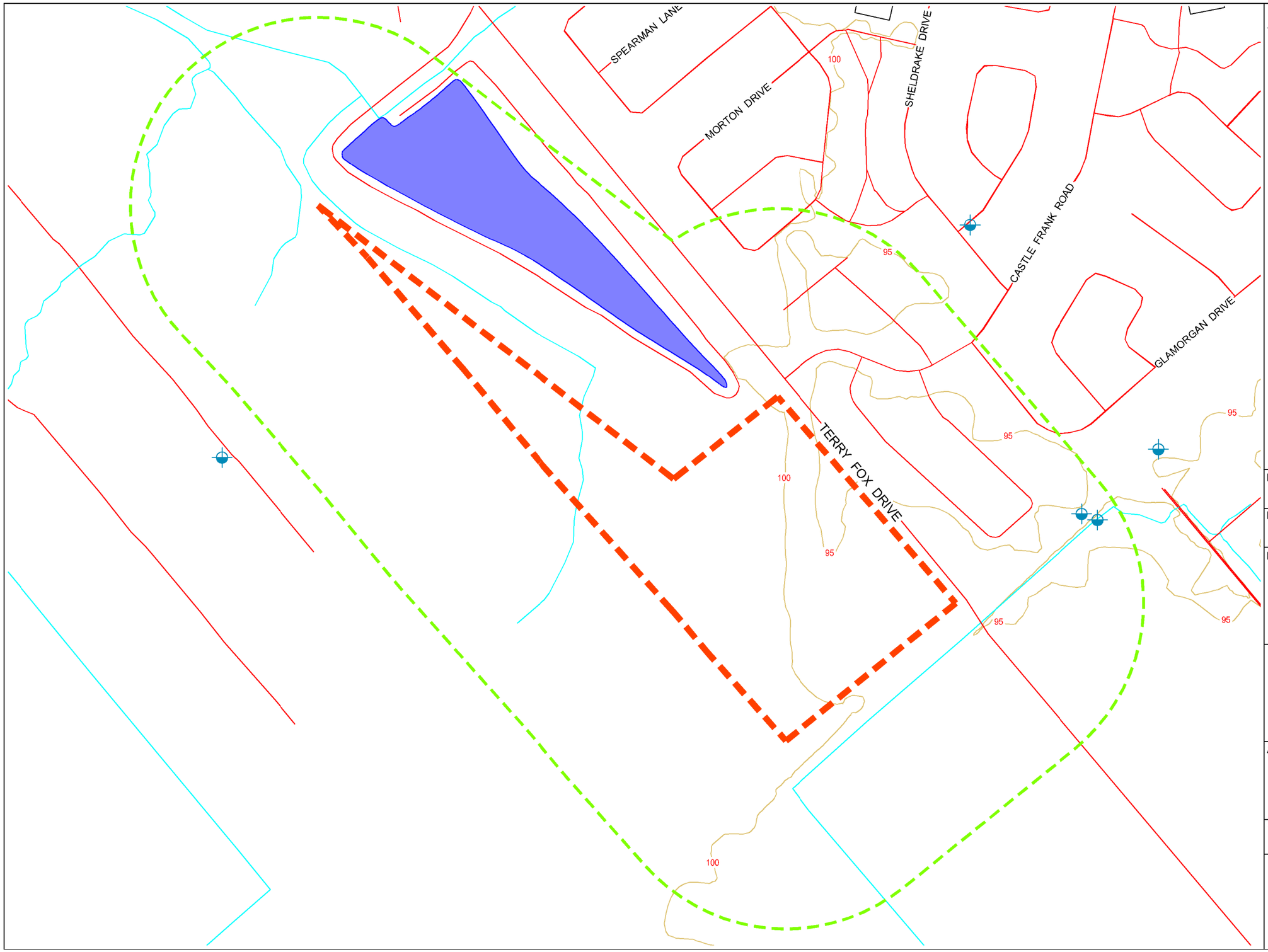
Project
PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
950 TERRY FOX DRIVE
OTTAWA, ONTARIO

Drawing
STUDY AREA PLAN

Approximate Scale
1:5000
0 100 200 300m

File No.	Figure	Revision No.
14-346	2	0

Houle Chevrier Engineering



LEGEND

- APPROXIMATE WATER WELL LOCATION IN PLAN
- SUBJECT PROPERTY
- 100 CONTOUR INTERVAL
- 250 METRE OFFSET, EXTENT OF STUDY AREA
- WATERCOURSE
- STORMWATER MANAGEMENT POND

Drawn By	Checked By
D.J.R.	S.S.

Date: September 2014

Project: PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 950 TERRY FOX DRIVE OTTAWA, ONTARIO

Drawing: TOPOGRAPHIC MAP

Approximate Scale: 1:5000

0 100 200 300m

File No.	Figure	Revision No.
14-346	3	0

Houle Chevrier Engineering

APPENDIX A

Ontario Land Registry Title Search Results

C.: Pike Business

ENVIRONMENTAL SEARCH

Ref. no. 10-029

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
	Patent	July 4 1828	Crown	Benjamin Bail
R064	Deed	Oct 4 1826	Benjamin Bail	William M. Collins
R0483	Deed	Feb 3 1832	William M. Collins	John Latten
R0484	Deed	Feb 3 1832	John Latten	James Inglis
R012120	Deed	May 13 1858	John T. Inglis	William Hodgins
R027457	Will	Aug 24 1867	William Hodgins	Susan Hodgins
6B2933	Deed	May 25 1889	Susan Church (formerly Hodgins)	Joseph Ralph
6B3933	Deed	May 1 1896	Joseph Ralph	John James Hodgins

02/11/2010 03:03 FAX 6137291277 001

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
GB5909	Deed	Mar 25 1907	John James Hodgins	Thomas Wall
GB7806	Deed	Sept 6 1922	Estate of Thomas Wall	John Wall
GB10251	Deed	Aug 11 1949	John Wall	Charles A.B. Wall
GB11572	Deed	June 1 1956	Charles A.B. Wall	James Jaing
GB11765	Deed	Feb 12 1957	James Jaing	Jim Jaing Construction Company Limited
GB12100	Bankruptcy	Mar 18 1957	Jim Jaing Construction Company Limited	Donald A. MacLeod Trustee
GB12101	Quit Claim Deed	Mar 18 1957	Donald A. MacLeod, Trustee	Charles A.B. Wall
GB12102	Deed	Mar 18 1957	Charles A.B. Wall	Gwendoline Anne Green

002
02/11/2010 03:03 FAX 6137291277

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
N527866	Deed	Jan 10 1985	Gwendoline Anne Green	Heritage Corners Land Development Limited
N428860	Deed	Mar 1 1988	Heritage Corners Land Development Limited	746638 Ontario Inc.
N678284	Deed	Jan 22 1993	746638 Ontario Inc.	1048209 Ontario Inc.
N746747	Deed	Aug 29 1996	1048209 Ontario Inc.	1189551 Ontario Inc.
N765044	Deed	Dec 21 1998	1189551 Ontario Inc.	3558584 Canada Inc. (Current owner)
C277724	Easement	Dec 2 2003	3558584 Canada Inc.	City of Ottawa - Easterly 10 Metres adjacent to Terry Fox Dr. - Stormwater Management
* Legal description is: Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being the remainder of Instrument no. N765044. Part of PIN 04450-1281.				
* see the next page for the Mississippi Valley Conservation authority lands.				

02/11/2010 03:04 FAX 6137291277 003

ENVIRONMENTAL SEARCH

INSTRUMENT #	TYPE	DATE	VENDOR	PURCHASER
* See pages 182 up until Instrument no. GB12101 for the previous owners of the chain of title described below.				
GB13336	Deed	May 11 1960	Charles A. B. Wall	John Steenbakkers
GB16413	Deed	July 21 1967	John Steenbakkers	Hubert Steenbakkers William Steenbakkers In Trust
C+209899	Deed	May 16 1975	Hubert Steenbakkers William Steenbakkers In Trust	John Steenbakkers
C+256951	Expropriation Plan	Oct 14 1977	Minister of Natural Resources (now Mississippi Valley Conservation Authority) (Current Owner)	
* Legal Description is: Part of Lot 30, Concession 11, Geographic Township of Goulbourn, City of Ottawa, being Part of Parts 182 on Plan 5R-2933. (Part of PIN 04450-0188).				
			Feb 10/10.	

02/11/2010 03:04 FAX 6137291277 004

APPENDIX B

Ecolog ERIS Database Report

ENVIRONMENTAL RISK INFORMATION SERVICE

DATABASE REPORT

Project Property:	*14-346 950 Terry Fox Drive Phase One ESA* *950 Terry Fox Dr Ottawa On* *Ottawa ON*
P.O. Number	
Report Type:	*Quote - Custom-Build Your Own Report*
Order #:	*20140819048*
Requested by:	*Houle Chevrier Engineering*
Date:	*August 25, 2014*

Ecolog ERIS Ltd.
Environmental Risk Information Service Ltd. (ERIS)
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property:	*14-346 950 Terry Fox Drive Phase One ESA* *950 Terry Fox Dr Ottawa On Ottawa ON*
P.O. Number:	

Order Information:

Order No.:	*20140819048*
Date Requested:	*26/08/2014*
Requested by:	*Houle Chevrier Engineering*
Report Type:	*Quote - Custom-Build Your Own Report*

Additional Products:

City Directory Search	*Subject Site plus 5 Adjacent Properties*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	1	32	33
CA	Certificates of Approval	Y	0	4	4
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	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	2	2
EIIS	Environmental Issues Inventory System	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
HINC	TSSA Historic Incidents	Y	0	3	3
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defence & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	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	2	2
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	1	2	3
		Total:	2	46	48

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
10	BORE		ON	-/0.0	96.00	15
14	WWIS		ON	-/0.0	98.75	15

Executive Summary: Site Report Summary - Surrounding *Properties*

Map Key	*DB*	*Company/Site Name*	*Address*	*Dir/Dist m*	*Elev diff m*	*Page Number*
1	BORE		ON	ENE/1.3	95.00	16
2	BORE		ON	NNE/0.9	96.56	16
3	BORE		ON	NE/24.7	94.03	17
4	BORE		ON	N/29.4	98.83	17
5	BORE		ON	N/38.2	99.00	18
6	BORE		ON	N/63.4	99.85	18
7	BORE		ON	E/20.5	95.00	19
8	BORE		ON	N/80.8	100.00	19
9	BORE		ON	N/80.9	100.00	20
11	BORE		ON	N/81.1	100.00	20
12	BORE		ON	NNE/54.0	97.77	20
13	BORE		ON	N/95.4	100.00	21
15	BORE		ON	N/120.5	99.56	21
16	BORE		ON	N/95.9	100.94	22
17	CA	614738 ONTARIO INC.	CASTLE GLEN CRS/CASTLEFRANK RD KANATA CITY ON	NE/109.7	95.00	22
17	CA	614738 ONTARIO INC.	CASTLE GLEN CRS/CASTLEFRANK RD KANATA CITY ON	NE/109.7	95.00	23

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
18	BORE		ON	N/143.2	99.00	23
19	BORE		ON	N/143.7	99.00	24
20	BORE		ON	N/146.2	99.00	24
21	BORE		ON	N/143.5	99.23	24
22	BORE		ON	N/142.9	100.36	25
23	HINC		8 CASTLE GLEN CRESCENT KANATA ON K2L 4H1	NE/174.6	95.06	25
23	SPL	Enbridge Gas Distribution Inc.	8 Castle Glen Crescent Ottawa ON	NE/174.6	95.06	26
24	CA	614738 ONTARIO INC.	CASTLEFRANK RD./CONNELLY RD. KANATA CITY ON	NE/177.4	95.00	26
25	BORE		ON	ESE/47.1	95.00	26
26	BORE		ON	N/189.9	98.88	27
27	BORE		ON	NNW/217.5	96.23	27
28	BORE		ON	NNW/217.0	96.38	28
29	BORE		ON	N/218.5	96.49	28
30	HINC		59 CONNELLY PLACE KANATA ON K2L 4C1	NNE/167.0	94.00	29
30	HINC		7 CONNELLY PLACE KANATA ON K2L 4C1	NNE/167.0	94.00	29
30	INC		69 Connelly Place, Ottawa ON	NNE/167.0	94.00	30
31	CA	City of Ottawa	Intersection of Castlefrank Rd. & Glamorgan Dr. Ottawa ON	NE/230.2	96.00	30
31	SPL	UNKNOWN	STORM SEWER AT CASTLE FRANK RD & GLAMORGAN DR N (KANATA) OTTAWA CITY ON	NE/230.2	96.00	31
32	BORE		ON	N/241.1	96.00	31

Map Key	DB	Company/Site Name	Address	Dir/Dist m	Elev diff m	Page Number
33	BORE		ON	NW/69.5	99.28	31
34	BORE		ON	NNW/246.4	96.00	32
35	WWIS		Ottawa ON	E/202.2	95.00	32
36	BORE		ON	NW/77.4	99.00	33
37	WWIS		Ottawa ON	E/214.0	95.00	33
38	BORE		ON	NW/85.8	98.95	34
39	EHS		no address Kanata ON	W/239.4	102.00	34
40	BORE		ON	NW/96.4	97.07	34
41	BORE		ON	NW/116.9	96.00	35
42	BORE		ON	NW/124.0	96.00	35
43	EHS		5618 Hazeldean Rd,5786&5657 Fernbank Rd,1489&1545 Shea Rd Ottawa ON	WNW/197.4	101.00	36

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Aug 2011 has found that there are 33 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
	ON	1.3	1
	ON	0.9	2
	ON	24.7	3
	ON	29.4	4
	ON	38.2	5
	ON	63.4	6
	ON	20.5	7
	ON	80.8	8
	ON	80.9	9
	ON	0.0	10
	ON	81.1	11
	ON	54.0	12
	ON	95.4	13
	ON	120.5	15
	ON	95.9	16
	ON	143.2	18
	ON	143.7	19
	ON	146.2	20
	ON	143.5	21

Site	Address	Distance m	Map Key
	ON	142.9	22
	ON	47.1	25
	ON	189.9	26
	ON	217.5	27
	ON	217.0	28
	ON	218.5	29
	ON	241.1	32
	ON	69.5	33
	ON	246.4	34
	ON	77.4	36
	ON	85.8	38
	ON	96.4	40
	ON	116.9	41
	ON	124.0	42

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 4 CA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
614738 ONTARIO INC.	CASTLE GLEN CRS/CASTLEFRANK RD KANATA CITY ON	109.7	17
614738 ONTARIO INC.	CASTLE GLEN CRS/CASTLEFRANK RD KANATA CITY ON	109.7	17
614738 ONTARIO INC.	CASTLEFRANK RD./CONNELLY RD. KANATA CITY ON	177.4	24
City of Ottawa	Intersection of Castlefrank Rd. & Glamorgan Dr. Ottawa ON	230.2	31

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 2013 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
	no address Kanata ON	239.4	39
	5618 Hazeldean Rd,5786&5657 Fernbank Rd,1489&1545 Shea Rd Ottawa ON	197.4	43

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009 has found that there are 3 HINC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
	8 CASTLE GLEN CRESCENT KANATA ON K2L 4H1	174.6	23
	59 CONNELLY PLACE KANATA ON K2L 4C1	167.0	30
	7 CONNELLY PLACE KANATA ON K2L 4C1	167.0	30

INC - TSSA Incidents

A search of the INC database, dated June 2009-Apr 2013 has found that there are 1 INC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
	69 Connelly Place, Ottawa ON	167.0	30

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2014 has found that there are 2 SPL site(s) within approximately 0.25 kilometers of the project property.

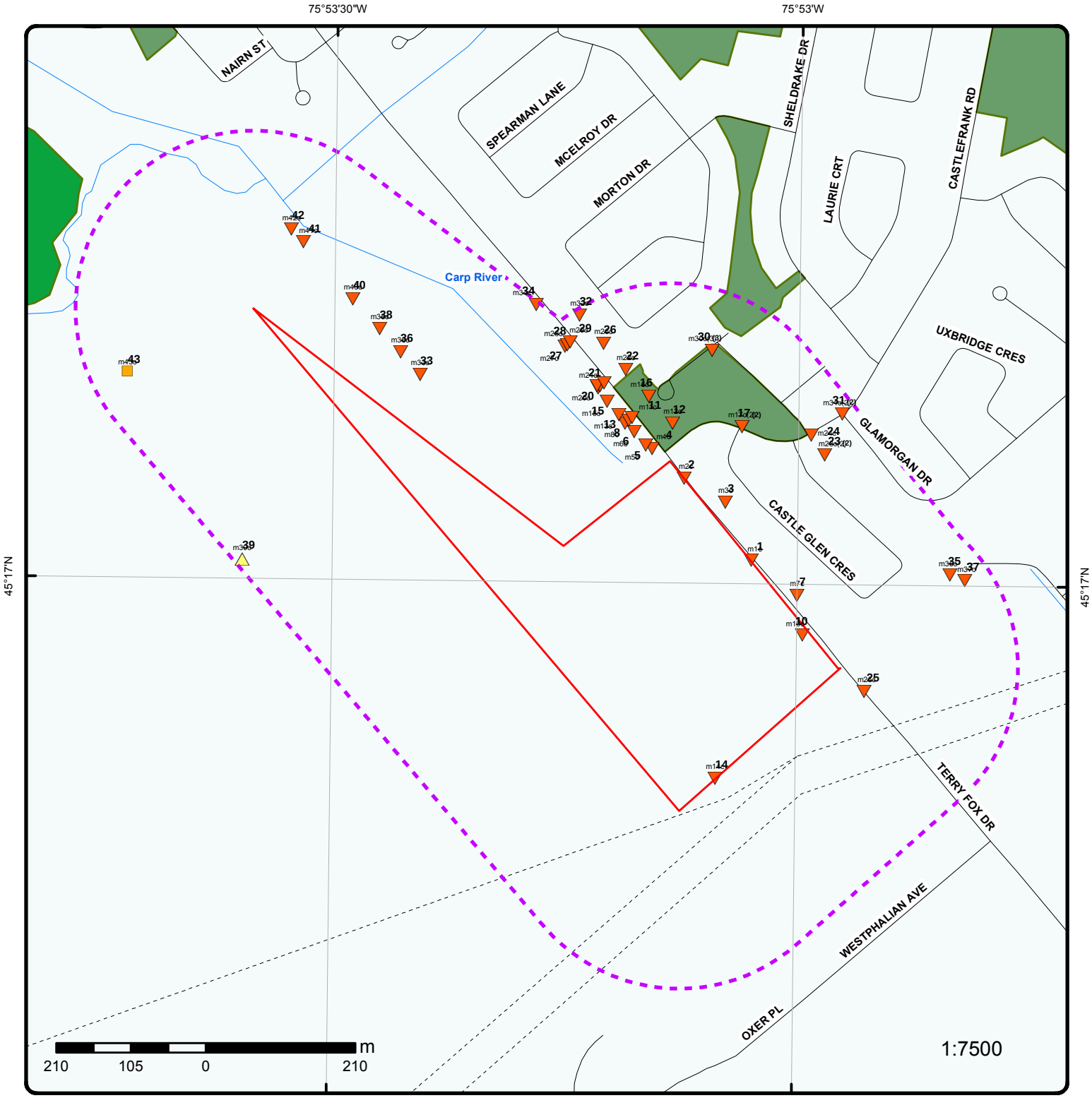
Site	Address	Distance m	Map Key
Enbridge Gas Distribution Inc.	8 Castle Glen Crescent Ottawa ON	174.6	23
UNKNOWN	STORM SEWER AT CASTLE FRANK RD & GLAMORGAN DR N (KANATA) OTTAWA CITY ON	230.2	31

WWIS - Water Well Information System

A search of the WWIS database, dated 1955-Mar 2014 has found that there are 3 WWIS site(s) within

approximately 0.25 kilometers of the project property.

Site	Address	Distance m	Map Key
	ON	0.0	14
	Ottawa ON	202.2	35
	Ottawa ON	214.0	37



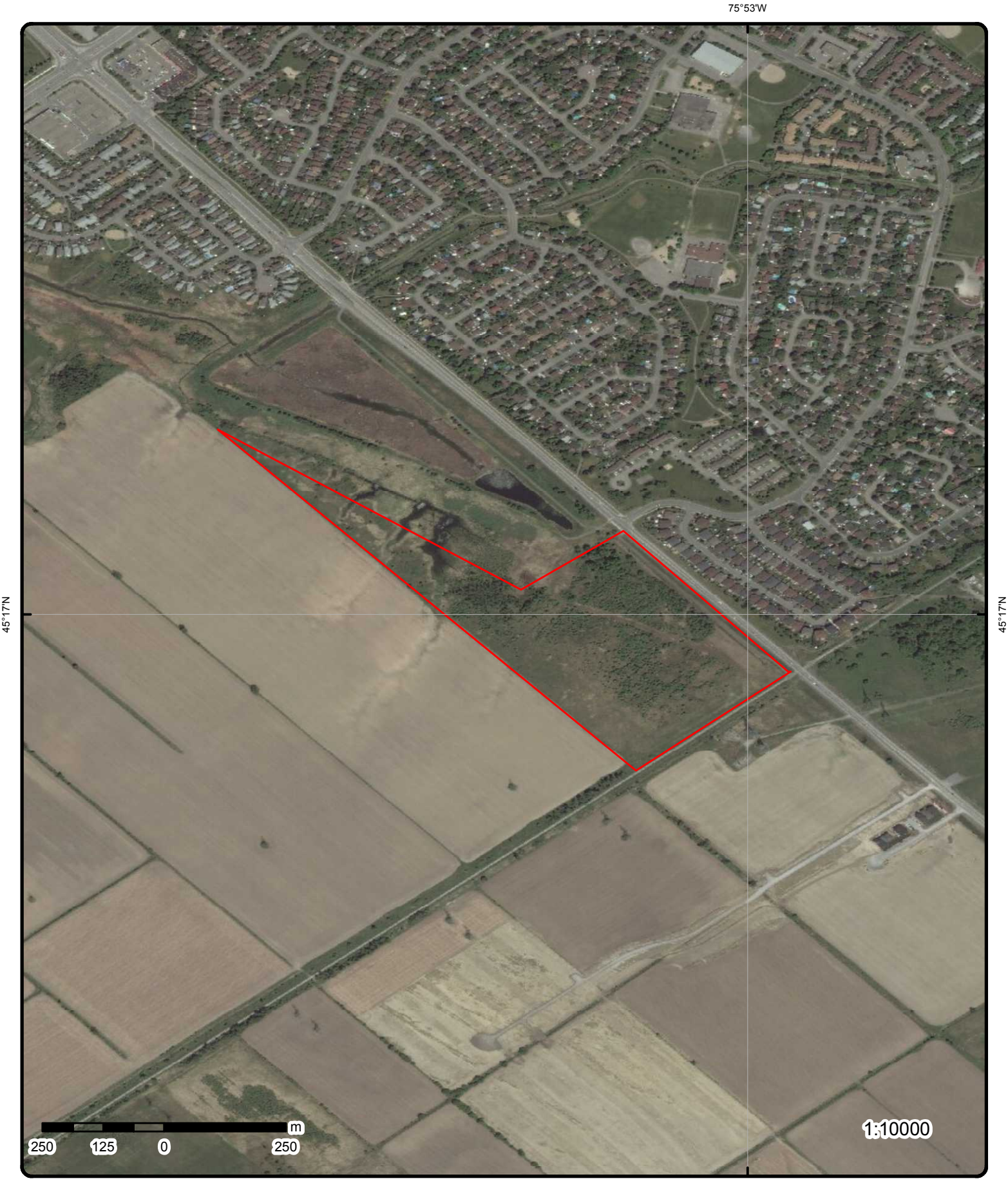
Map

Order No: 20140819048

Address: 950 Terry Fox Dr Ottawa On, Ottawa, ON

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

Source: © 2014 DMTI Spatial Inc.



Aerial

Order No: 20140819048

Address: 950 Terry Fox Dr Ottawa On, Ottawa, ON

Source: ESRI World Imagery, Updated December 2012

© Ecolog ERIS Ltd

Detail Report

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
10	1 of 1	-/0.0	96.0	ON	BORE

Borehole ID:	801997	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	430732.197	Northing:	5014733.908
Location Accuracy:		Orig. Ground Elev m:	96.099998
Elev. Reliability Note:		DEM Ground Elev m:	95.900002
Total Depth m:	29.700001	Primary Name:	BH 1
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	1976-OCT-28	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218570370	Top Depth m:	0
Bottom Depth m:	0.200000	Stratum Desc:	Topsoil
+			
Stratum ID:	218570371	Top Depth m:	0.200000
Bottom Depth m:	1.800000	Stratum Desc:	Brown Loose sand silt
+			
Stratum ID:	218570372	Top Depth m:	1.800000
Bottom Depth m:	3	Stratum Desc:	Grey Very Loose sand silt
+			
Stratum ID:	218570373	Top Depth m:	3
Bottom Depth m:	14.300000	Stratum Desc:	Grey Soft to Firm Silty Clay With: Org M
+			
Stratum ID:	218570374	Top Depth m:	14.300000
Bottom Depth m:	24.299999	Stratum Desc:	Grey Firm to Stiff Silty Clay
+			
Stratum ID:	218570375	Top Depth m:	24.299999
Bottom Depth m:	27.799999	Stratum Desc:	Grey Very Dense Till Silt - Sand With: Gr Trace: Cl Occasional: Cob Occ Blds
+			
Stratum ID:	218570376	Top Depth m:	27.799999
Bottom Depth m:	29.700001	Stratum Desc:	Grey Bedrock Limestone

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
14	1 of 1	-/0.0	98.8	ON	WWIS

Well ID:	7176831	Lot:	
Concession:		Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	GOULBOURN TOWNSHIP
Easting Nad83:	430609	Northing Nad83:	5014533
Zone:	18	Utm Reliability:	margin of error : 100 m - 300 m
Primary Water Use:		Construction Date:	12-JUL-11
Sec. Water Use:		Well Depth:	
Pump Rate:		Static Water Level:	
Flow Rate:		Clear/Cloudy:	
Specific Capacity:		Final Well Status:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Construction Method:		*Flowing (y/n):*	
Elevation (m):		*Elevation Reliability:*	
Depth to Bedrock:		*Overburden/Bedrock:*	
Water Type:		*Casing Material:*	

1 **1 of 1** **ENE/1.3** **95.0** **ON** **BORE**

Borehole ID:	802002	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430659.789	*Northing:*	5014839.245
Location Accuracy:		*Orig. Ground Elev m:*	94.800003
Elev. Reliability Note:		*DEM Ground Elev m:*	95.099998
Total Depth m:	7.500000	*Primary Name:*	BH 2
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-2	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570398	*Top Depth m:*	0
Bottom Depth m:	0.900000	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218570399	*Top Depth m:*	0.900000
Bottom Depth m:	2.600000	*Stratum Desc:*	Grey-Brown to Grey Very Loose sand silt
+			
Stratum ID:	218570400	*Top Depth m:*	2.600000
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft to Firm Silty Clay With: Org M

2 **1 of 1** **NNE/0.9** **96.6** **ON** **BORE**

Borehole ID:	802006	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430565.671	*Northing:*	5014954.986
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	96.599998
Total Depth m:	7.500000	*Primary Name:*	BH 3
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-2	*Static Water Level:*	0.400000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570416	*Top Depth m:*	0
Bottom Depth m:	0.400000	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218570417	*Top Depth m:*	0.400000
Bottom Depth m:	1.700000	*Stratum Desc:*	Grey-Brown Loose Silt - Sand
+			
Stratum ID:	218570418	*Top Depth m:*	1.700000
Bottom Depth m:	2.400000	*Stratum Desc:*	Grey Soft Layered Silty Clay & Sandy

Silt

+

Stratum ID:	218570419	*Top Depth m:*	2.400000
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft to Firm Silty Clay With: Org M

3 **1 of 1** **NE/24.7** **94.0** **ON** **BORE**

Borehole ID:	806528	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430623.969	*Northing:*	5014920.904
Location Accuracy:		*Orig. Ground Elev m:*	96
Elev. Reliability Note:		*DEM Ground Elev m:*	95.300003
Total Depth m:	4.400000	*Primary Name:*	BH00-13
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-23	*Static Water Level:*	1.200000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589234	*Top Depth m:*	0
Bottom Depth m:	0.600000	*Stratum Desc:*	Brown Fill-Misc Silt - Sand Trace: Gr

+

Stratum ID:	218589235	*Top Depth m:*	0.600000
Bottom Depth m:	0.700000	*Stratum Desc:*	Wood

+

Stratum ID:	218589236	*Top Depth m:*	0.700000
Bottom Depth m:	2.200000	*Stratum Desc:*	Grey-Brown Stiff Weathered Crust Silty Clay With: F Sa

+

Stratum ID:	218589237	*Top Depth m:*	2.200000
Bottom Depth m:	3	*Stratum Desc:*	Grey Firm to Stiff Silty Clay

+

Stratum ID:	218589238	*Top Depth m:*	3
Bottom Depth m:	4.400000	*Stratum Desc:*	Grey Soft to Firm Silty Clay

4 **1 of 1** **N/29.4** **98.8** **ON** **BORE**

Borehole ID:	802012	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430520.757	*Northing:*	5014996.317
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	98.300003
Total Depth m:	7.500000	*Primary Name:*	BH 4
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-2	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570443	*Top Depth m:*	0.400000
Bottom Depth m:	1.800000	*Stratum Desc:*	Brown Loose Silt - Sand

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

+

Stratum ID:	218570444	*Top Depth m:*	1.800000
Bottom Depth m:	3	*Stratum Desc:*	Grey Layered Silty Clay & Silty Sand

+

Stratum ID:	218570445	*Top Depth m:*	3
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft to Firm Silty Clay With: Org M

+

Stratum ID:	218570442	*Top Depth m:*	0
Bottom Depth m:	0.400000	*Stratum Desc:*	Dark Brown Peat

5	1 of 1	N/38.2	99.0	ON	BORE

Borehole ID:	806525	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430511.866	*Northing:*	5015000.482
Location Accuracy:		*Orig. Ground Elev m:*	94.900002
Elev. Reliability Note:		*DEM Ground Elev m:*	98.500000
Total Depth m:	7.300000	*Primary Name:*	BH00-12
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-23	*Static Water Level:*	2.800000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589224	*Top Depth m:*	0
Bottom Depth m:	0.600000	*Stratum Desc:*	Brown Fill-Misc Silt - Sand With: Gr

+

Stratum ID:	218589225	*Top Depth m:*	0.600000
Bottom Depth m:	2.200000	*Stratum Desc:*	Fill -Rock

+

Stratum ID:	218589226	*Top Depth m:*	2.200000
Bottom Depth m:	7.300000	*Stratum Desc:*	Grey Soft to Firm Silty Clay

---

6	1 of 1	N/63.4	99.9	ON	BORE

Borehole ID:	802026	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430495.509	*Northing:*	5015019.785
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	98.400002
Total Depth m:	3	*Primary Name:*	BH 8
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-3	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570499	*Top Depth m:*	0
Bottom Depth m:	1.500000	*Stratum Desc:*	Dark Brown Peat

+

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Stratum ID:	218570500	*Top Depth m:*	1.500000
Bottom Depth m:	2	*Stratum Desc:*	Grey sand silt
+			
Stratum ID:	218570501	*Top Depth m:*	2
Bottom Depth m:	3	*Stratum Desc:*	Grey Silty Clay

7 **1 of 1** **E/20.5** **95.0** **ON** **BORE**

Borehole ID:	806532	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430724.524	*Northing:*	5014790.046
Location Accuracy:		*Orig. Ground Elev m:*	95.300003
Elev. Reliability Note:		*DEM Ground Elev m:*	95.300003
Total Depth m:	4.300000	*Primary Name:*	BH00-14
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-25	*Static Water Level:*	0.300000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589253	*Top Depth m:*	0
Bottom Depth m:	0.200000	*Stratum Desc:*	Topsoil
+			
Stratum ID:	218589254	*Top Depth m:*	0.200000
Bottom Depth m:	1.200000	*Stratum Desc:*	Grey-Brown Compact Sand With: Si
+			
Stratum ID:	218589255	*Top Depth m:*	1.200000
Bottom Depth m:	2.100000	*Stratum Desc:*	Grey Sand With: Si
+			
Stratum ID:	218589256	*Top Depth m:*	2.100000
Bottom Depth m:	4.300000	*Stratum Desc:*	Grey Firm to Soft Silty Clay

8 **1 of 1** **N/80.8** **100.0** **ON** **BORE**

Borehole ID:	806523	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430482.925	*Northing:*	5015032.018
Location Accuracy:		*Orig. Ground Elev m:*	94.599998
Elev. Reliability Note:		*DEM Ground Elev m:*	99.300003
Total Depth m:	1.600000	*Primary Name:*	BH00-11B
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2004-JAN-26	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589219	*Top Depth m:*	0
Bottom Depth m:	0.600000	*Stratum Desc:*	Brown Fill-Misc Sand - Gravel With: Cob
+			
Stratum ID:	218589220	*Top Depth m:*	0.600000

Bottom Depth m:	1.400000	*Stratum Desc:*	Grey Crushed Stone
+			
Stratum ID:	218589221	*Top Depth m:*	1.400000
Bottom Depth m:	1.600000	*Stratum Desc:*	Grey sand silt

9 **1 of 1** **N/80.9** **100.0** **ON** **BORE**

Borehole ID:	806522	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430487.872	*Northing:*	5015035.926
Location Accuracy:		*Orig. Ground Elev m:*	94.699997
Elev. Reliability Note:		*DEM Ground Elev m:*	99.199997
Total Depth m:	2.900000	*Primary Name:*	BH00-11A
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-26	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589216	*Top Depth m:*	0
Bottom Depth m:	0.800000	*Stratum Desc:*	Grey-Brown Fill-Misc Silt - Sand With: Org M
+			
Stratum ID:	218589217	*Top Depth m:*	0.800000
Bottom Depth m:	2.100000	*Stratum Desc:*	Fill -Rock
+			
Stratum ID:	218589218	*Top Depth m:*	2.100000
Bottom Depth m:	2.900000	*Stratum Desc:*	Grey Silty Clay

11 **1 of 1** **N/81.1** **100.0** **ON** **BORE**

Borehole ID:	806521	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430492.954	*Northing:*	5015040.331
Location Accuracy:		*Orig. Ground Elev m:*	95.300003
Elev. Reliability Note:		*DEM Ground Elev m:*	99.199997
Total Depth m:	0.900000	*Primary Name:*	BH00-11
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-23	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589215	*Top Depth m:*	0
Bottom Depth m:	0.900000	*Stratum Desc:*	Fill -Rock

12 **1 of 1** **NNE/54.0** **97.8** **ON** **BORE**

Borehole ID:	805363	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Easting:	430549.611	*Northing:*	5015032.277
Location Accuracy:		*Orig. Ground Elev m:*	95.599998
Elev. Reliability Note:		*DEM Ground Elev m:*	97.900002
Total Depth m:	3.700000	*Primary Name:*	BH.16
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1991-MAR-19	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218584334	*Top Depth m:*	0.900000
Bottom Depth m:	1.500000	*Stratum Desc:*	Grey Fill-Misc Silt - Sand With: Org M
+			
Stratum ID:	218584335	*Top Depth m:*	1.500000
Bottom Depth m:	2.900000	*Stratum Desc:*	Brown to Grey Brown Loose Silt - Sand
+			
Stratum ID:	218584336	*Top Depth m:*	2.900000
Bottom Depth m:	3.700000	*Stratum Desc:*	Grey-Brown Stiff Weathered Crust Silty Clay Occasional: Sa
+			
Stratum ID:	218584333	*Top Depth m:*	0
Bottom Depth m:	0.900000	*Stratum Desc:*	Brown Fill-Misc Silty Clay With: Sa W Gr Trace: Constr Debris Occasional: Cob Occ Blds

---

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
13	1 of 1	N/95.4	100.0	ON	BORE

Borehole ID:	802015	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430474.268	*Northing:*	5015043.678
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	100.099998
Total Depth m:	7.500000	*Primary Name:*	BH 5
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-2	*Static Water Level:*	0.500000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570451	*Top Depth m:*	0
Bottom Depth m:	3	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218570452	*Top Depth m:*	3
Bottom Depth m:	6.500000	*Stratum Desc:*	Grey-Brown Very Soft Silt With: Org M
+			
Stratum ID:	218570453	*Top Depth m:*	6.500000
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft to Firm Silty Clay

---

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
15	1 of 1	N/120.5	99.6	ON	BORE

Borehole ID:	802023	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430457.651	*Northing:*	5015062.485
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	100.500000
Total Depth m:	3	*Primary Name:*	BH 7
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-3	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570487	*Top Depth m:*	0
Bottom Depth m:	2.200000	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218570488	*Top Depth m:*	2.200000
Bottom Depth m:	3	*Stratum Desc:*	Grey sand silt

---

16 ***1 of 1*** ***N/95.9*** ***100.9*** ***BORE***

ON

Borehole ID:	805358	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430516.345	*Northing:*	5015069.892
Location Accuracy:		*Orig. Ground Elev m:*	95.199997
Elev. Reliability Note:		*DEM Ground Elev m:*	99.800003
Total Depth m:	7.300000	*Primary Name:*	BH.15
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1991-MAR-19	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218584320	*Top Depth m:*	0
Bottom Depth m:	1.800000	*Stratum Desc:*	Dark Grey-Brown Fill-Misc Silty Clay With: Gr Occasional: Blds
+			
Stratum ID:	218584321	*Top Depth m:*	1.800000
Bottom Depth m:	3.200000	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218584322	*Top Depth m:*	3.200000
Bottom Depth m:	6.400000	*Stratum Desc:*	Dark Brown Firm clay silt With: Org M Occasional: F Sa
+			
Stratum ID:	218584323	*Top Depth m:*	6.400000
Bottom Depth m:	7.200000	*Stratum Desc:*	Grey Soft Silty Clay Occasional: Sa
+			
Stratum ID:	218584324	*Top Depth m:*	7.200000
Bottom Depth m:	7.300000	*Stratum Desc:*	Till sand silt

---

17 ***1 of 2*** ***NE/109.7*** ***95.0*** ***614738 ONTARIO INC.*** ***CA***

CASTLE GLEN CRS/CASTLEFRANK RD
KANATA CITY ON

Certificate #: 7-0852-99-

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Application Year:	99
Issue Date:	10/21/1999
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

17	***2 of 2***	***NE/109.7***	***95.0***	***614738 ONTARIO INC.*** ***CASTLE GLEN CRS/CASTLEFRANK RD*** ***KANATA CITY ON***	***CA***

Certificate #:	3-1243-99-
Application Year:	99
Issue Date:	10/21/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

18	***1 of 1***	***N/143.2***	***99.0***	***ON***	***BORE***

Borehole ID:	806519	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430445.291	*Northing:*	5015081.714
Location Accuracy:		*Orig. Ground Elev m:*	94.800003
Elev. Reliability Note:		*DEM Ground Elev m:*	100.900002
Total Depth m:	1.500000	*Primary Name:*	BH00-10B
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-26	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589207	*Top Depth m:*	0
Bottom Depth m:	0.600000	*Stratum Desc:*	Brown Fill-Misc Sand - Gravel Occasional: Cob
+			
Stratum ID:	218589208	*Top Depth m:*	0.600000
Bottom Depth m:	1.200000	*Stratum Desc:*	Peat
+			
Stratum ID:	218589209	*Top Depth m:*	1.200000
Bottom Depth m:	1.500000	*Stratum Desc:*	Grey sand silt

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

19 **1 of 1** **N/143.7** **99.0** **ON** **BORE**

Borehole ID:	806516	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430447.524	*Northing:*	5015084.172
Location Accuracy:		*Orig. Ground Elev m:*	95
Elev. Reliability Note:		*DEM Ground Elev m:*	100.900002
Total Depth m:	1.500000	*Primary Name:*	BH00-10A
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-26	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589196	*Top Depth m:*	0
Bottom Depth m:	0.800000	*Stratum Desc:*	Grey-Brown Fill-Misc Sand - Gravel Trace: Org M Occasional: Cob
+			
Stratum ID:	218589197	*Top Depth m:*	0.800000
Bottom Depth m:	1	*Stratum Desc:*	Peat With: Cob
+			
Stratum ID:	218589198	*Top Depth m:*	1
Bottom Depth m:	1.500000	*Stratum Desc:*	Grey-Brown Silt - Sand

20 **1 of 1** **N/146.2** **99.0** **ON** **BORE**

Borehole ID:	802019	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430443.141	*Northing:*	5015083.753
Location Accuracy:		*Orig. Ground Elev m:*	94.500000
Elev. Reliability Note:		*DEM Ground Elev m:*	100.900002
Total Depth m:	7.500000	*Primary Name:*	BH 6
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-3	*Static Water Level:*	0.400000
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570471	*Top Depth m:*	0
Bottom Depth m:	0.500000	*Stratum Desc:*	Dark Brown Peat
+			
Stratum ID:	218570472	*Top Depth m:*	0.500000
Bottom Depth m:	3	*Stratum Desc:*	Brown to Grey Loose to Very Loose Silt - Sand
+			
Stratum ID:	218570473	*Top Depth m:*	3
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft to Firm Silty Clay With: Org M

21 **1 of 1** **N/143.5** **99.2** **ON** **BORE**

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Borehole ID:	806514	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430453.386	*Northing:*	5015088.562
Location Accuracy:		*Orig. Ground Elev m:*	95.300003
Elev. Reliability Note:		*DEM Ground Elev m:*	100.900002
Total Depth m:	0.800000	*Primary Name:*	BH00-10
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	2001-JAN-23	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218589190	*Top Depth m:*	0
Bottom Depth m:	0.800000	*Stratum Desc:*	Fill -Rock

22	**1 of 1**	**N/142.9**	**100.4**	**ON**	**BORE**

Borehole ID:	805354	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430483.861	*Northing:*	5015107.493
Location Accuracy:		*Orig. Ground Elev m:*	94.900002
Elev. Reliability Note:		*DEM Ground Elev m:*	100.699997
Total Depth m:	2.700000	*Primary Name:*	BH.14
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1991-MAR-19	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218584300	*Top Depth m:*	0
Bottom Depth m:	0.400000	*Stratum Desc:*	Dark Grey Fill-Misc sand silt With: Blds
+			
Stratum ID:	218584301	*Top Depth m:*	0.400000
Bottom Depth m:	0.800000	*Stratum Desc:*	Dark Grey Topsoil clay silt
+			
Stratum ID:	218584302	*Top Depth m:*	0.800000
Bottom Depth m:	2.300000	*Stratum Desc:*	Brown to Grey Brown Very Loose Silt - Sand
+			
Stratum ID:	218584303	*Top Depth m:*	2.300000
Bottom Depth m:	2.700000	*Stratum Desc:*	Grey-Brown Very Stiff Weathered Crust Silty Clay Occasional: Sa

---

23	**1 of 2**	**NE/174.6**	**95.1**	**8 CASTLE GLEN CRESCENT KANATA ON K2L 4H1**	**HINC**

External File Num:	FS INC 0902-00615
Date of Occurrence:	2/1/2009
Fuel Occurrence Type:	Vapour Release
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - No Action Required
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

23	***2 of 2***	***NE/174.6***	***95.1***	***Enbridge Gas Distribution Inc.*** ***8 Castle Glen Crescent*** ***Ottawa ON***	***SPL***

Ref No.:	0708-7NUTWG
Incident Dt:	
MOE Reported Dt:	2/1/2009
Contaminant Name:	NATURAL GAS (METHANE)
Contaminant Quantity:	
Incident Summary:	Private Home-Gas meter Leak,Enbridge.
Incident Cause:	Pipe Or Hose Leak
Incident Reason:	Ice/Snow/Rain
Nature of Impact:	
Receiving Medium:	
Environmental Impact:	Not Anticipated

24	***1 of 1***	***NE/177.4***	***95.0***	***614738 ONTARIO INC.*** ***CASTLEFRANK RD./CONNELLY RD.*** ***KANATA CITY ON***	***CA***

Certificate #:	3-1192-99-
Application Year:	99
Issue Date:	10/18/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

25	***1 of 1***	***ESE/47.1***	***95.0***	***ON***	***BORE***

Borehole ID:	806537	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430818.655	*Northing:*	5014654.807
Location Accuracy:		*Orig. Ground Elev m:*	96.699997

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Elev. Reliability Note:		DEM Ground Elev m:	95.900002
Total Depth m:	9.100000	Primary Name:	BH00-15
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	2001-JAN-24	Static Water Level:	3.500000
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218589269	Top Depth m:	0
Bottom Depth m:	0.600000	Stratum Desc:	Dark Topsoil Silt - Sand With: Cl
+			
Stratum ID:	218589270	Top Depth m:	0.600000
Bottom Depth m:	2.200000	Stratum Desc:	Grey-Brown Stiff Weathered Crust Silty Clay With: F Sa
+			
Stratum ID:	218589271	Top Depth m:	2.200000
Bottom Depth m:	3	Stratum Desc:	Grey Stiff Silty Clay
+			
Stratum ID:	218589272	Top Depth m:	3
Bottom Depth m:	9.100000	Stratum Desc:	Grey Soft to Firm Silty Clay

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
26	1 of 1	N/189.9	98.9	ON	BORE

Borehole ID:	805352	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	430452.669	Northing:	5015144.070
Location Accuracy:		Orig. Ground Elev m:	95.199997
Elev. Reliability Note:		DEM Ground Elev m:	101
Total Depth m:	3.700000	Primary Name:	BH.13
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	1991-MAR-20	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218584293	Top Depth m:	0
Bottom Depth m:	3	Stratum Desc:	Brown Fill-Misc Silt - Sand With: Gr W Cob W Blds
+			
Stratum ID:	218584294	Top Depth m:	3
Bottom Depth m:	3.500000	Stratum Desc:	Dark Grey Silt - Sand
+			
Stratum ID:	218584295	Top Depth m:	3.500000
Bottom Depth m:	3.700000	Stratum Desc:	Grey Soft Silty Clay

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
27	1 of 1	NNW/217.5	96.2	ON	BORE

Borehole ID:	806513	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	430398.622	Northing:	5015139.576
Location Accuracy:		Orig. Ground Elev m:	94.900002

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Elev. Reliability Note:		DEM Ground Elev m:	101
Total Depth m:	1.500000	Primary Name:	BH00-9B
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	2001-JAN-26	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218589188	Top Depth m:	0
Bottom Depth m:	0.400000	Stratum Desc:	Dark Brown to Brown Fill-Misc Sand - Gravel With: Si Trace: Org M
+			
Stratum ID:	218589189	Top Depth m:	0.400000
Bottom Depth m:	1.500000	Stratum Desc:	Grey-Brown Silt - Sand

28 **1 of 1** **NNW/217.0** **96.4** **ON** **BORE**

Borehole ID:	806511	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	430401.970	Northing:	5015141.514
Location Accuracy:		Orig. Ground Elev m:	95
Elev. Reliability Note:		DEM Ground Elev m:	101
Total Depth m:	1.500000	Primary Name:	BH00-9A
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	2001-JAN-29	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218589183	Top Depth m:	0
Bottom Depth m:	0.600000	Stratum Desc:	Dark Brown Fill-Misc sand silt With: Gr Trace: Org M
+			
Stratum ID:	218589184	Top Depth m:	0.600000
Bottom Depth m:	1.500000	Stratum Desc:	Brown Silt - Sand

29 **1 of 1** **N/218.5** **96.5** **ON** **BORE**

Borehole ID:	806508	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status:	
Drill Method:	Hollow stem auger	UTM Zone:	18
Easting:	430405.593	Northing:	5015146.446
Location Accuracy:		Orig. Ground Elev m:	95.599998
Elev. Reliability Note:		DEM Ground Elev m:	101
Total Depth m:	4.600000	Primary Name:	BH00-9
Township:		Concession:	
Lot:		Municipality:	
Completion Date:	2001-JAN-22	Static Water Level:	
Primary Water Use:		Sec. Water Use:	

--- Details ---

Stratum ID:	218589172	Top Depth m:	0
Bottom Depth m:	2.200000	Stratum Desc:	Fill -Rock
+			

Stratum ID:	218589173	*Top Depth m:*	2.200000
Bottom Depth m:	2.900000	*Stratum Desc:*	Grey-Brown Stiff sand silt
+			
Stratum ID:	218589174	*Top Depth m:*	2.900000
Bottom Depth m:	4.600000	*Stratum Desc:*	Grey Firm Weathered Crust Silty Clay

30 ***1 of 3*** ***NNE/167.0*** ***94.0*** ***59 CONNELLY PLACE KANATA ON K2L 4C1*** ***HINC***

External File Num:	FS INC 0803-01360
Date of Occurrence:	3/31/2008
Fuel Occurrence Type:	CO Release
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - No Action Required
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

30 ***2 of 3*** ***NNE/167.0*** ***94.0*** ***7 CONNELLY PLACE KANATA ON K2L 4C1*** ***HINC***

External File Num:	FS INC 0707-03844
Date of Occurrence:	7/9/2007
Fuel Occurrence Type:	Pipeline Strike
Fuel Type Involved:	Natural Gas
Status Desc:	Completed - Causal Analysis(End)
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Construction Site (pipeline strike)
Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:N/A Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Ottawa
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB
30	3 of 3	NNE/167.0	94.0	69 Connelly Place, Ottawa ON	INC

Incident ID:	2569796
Incident Number:	418094
SR Type:	FS-Incident
Status Code:	Causal Analysis Complete
Summary:	69 Connelly Place, Ottawa - CO Release
Drainage System:	
Sub Surface Contam.:	
Aff. Prop. Use Water:	
Contam. Migrated:	
Contact Natural Env.:	
Near Body of Water:	
Approx. Quant. Rel.:	
Equipment Model:	PVW50
Serial No:	0499J65014
Residential App. Type:	Water heater
Commercial App. Type:	
Industrial App. Type:	
Institutional App. Type:	
Venting Type:	Power Vent (e.g., Side Wall venting)
Vent Connector Mater.:	
Vent Chimney Mater.:	
Notes:	ABS Vent piece from manufacturer - not field supplied venting.
Pipeline Type:	
Pipeline Involved:	
Pipe Material:	
Depth Ground Cover:	
Regulator Location:	
Regulator Type:	
Operation Pressure:	
Pipeline Notes:	
Liquid Prop Make:	
Liquid Prop Model:	
Liquid Prop Serial No:	
Equipment Type:	
Cylinder Capacity:	
Cylinder Capac. Units:	
Cylinder Material Type:	
Tank Capacity:	
Tank Material Type:	
Tank Storage Type:	
Tank Location Type:	
Pump Flow Rate Capac.:	
Liquid Prop Notes:	

31	1 of 2	NE/230.2	96.0	City of Ottawa Intersection of Castlefrank Rd. & Glamorgan Dr. Ottawa ON	CA

Certificate #:	7478-5R4HNG
Application Year:	2003
Issue Date:	9/5/2003
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

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

---

31 **2 of 2** **NE/230.2** **96.0** **UNKNOWN** **SPL**
STORM SEWER AT CASTLE FRANK RD & GLAMORGAN DR N (KANATA)
OTTAWA CITY ON

Ref No.:	224418
Incident Dt:	4/25/2002
MOE Reported Dt:	4/26/2002
Contaminant Name:	
Contaminant Quantity:	
Incident Summary:	CITY OF OTTAWA: UKN SRCE OF FURNACE/FUEL OIL IN STORM SEWER. TRACING.
Incident Cause:	PIPE/HOSE LEAK
Incident Reason:	UNKNOWN
Nature of Impact:	Soil contamination
Receiving Medium:	LAND / WATER
Environmental Impact:	POSSIBLE

---

32 **1 of 2** **N/241.1** **96.0** **BORE**
ON

Borehole ID:	805349	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430418.910	*Northing:*	5015183.695
Location Accuracy:		*Orig. Ground Elev m:*	95.099998
Elev. Reliability Note:		*DEM Ground Elev m:*	100.900002
Total Depth m:	1.400000	*Primary Name:*	BH.12
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1991-MAR-20	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218584285	*Top Depth m:*	0
Bottom Depth m:	1.400000	*Stratum Desc:*	Brown Fill-Misc Silt - Sand With: Gr W Cob W Blds

---

33 **1 of 1** **NW/69.5** **99.3** **BORE**
ON

Borehole ID:	802036	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430194.921	*Northing:*	5015100.871
Location Accuracy:		*Orig. Ground Elev m:*	94.199997
Elev. Reliability Note:		*DEM Ground Elev m:*	99.599998
Total Depth m:	5.900000	*Primary Name:*	BH 12
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-9	*Static Water Level:*	

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570542	*Top Depth m:*	3
Bottom Depth m:	5.900000	*Stratum Desc:*	Grey Firm Silty Clay
+			
Stratum ID:	218570540	*Top Depth m:*	0
Bottom Depth m:	2.100000	*Stratum Desc:*	Dark Brown to Brown Peat
+			
Stratum ID:	218570541	*Top Depth m:*	2.100000
Bottom Depth m:	3	*Stratum Desc:*	Grey Loose sand silt

---

34 ***1 of 1*** ***NNW/246.4*** ***96.0*** ***BORE***

ON

Borehole ID:	802028	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430358.072	*Northing:*	5015198.825
Location Accuracy:		*Orig. Ground Elev m:*	94.099998
Elev. Reliability Note:		*DEM Ground Elev m:*	100.500000
Total Depth m:	5.900000	*Primary Name:*	BH 9
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-8	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570506	*Top Depth m:*	0.500000
Bottom Depth m:	1.500000	*Stratum Desc:*	Grey-Brown Loose sand silt
+			
Stratum ID:	218570507	*Top Depth m:*	1.500000
Bottom Depth m:	5.900000	*Stratum Desc:*	Grey Firm to Soft Silty Clay With: Org M
+			
Stratum ID:	218570505	*Top Depth m:*	0
Bottom Depth m:	0.500000	*Stratum Desc:*	Dark Brown Peat

---

35 ***1 of 1*** ***E/202.2*** ***95.0*** ***WWIS***

Ottawa ON

Well ID:	7173358	*Lot:*	
Concession:		*Concession Name:*	
County:	OTTAWA-CARLETON	*Municipality:*	GOULBOURN TOWNSHIP
Easting Nad83:	430939	*Northing Nad83:*	5014818
Zone:	18	*Utm Reliability:*	margin of error : 100 m - 300 m
Primary Water Use:	Monitoring and Test Hole	*Construction Date:*	07-NOV-11
Sec. Water Use:		*Well Depth:*	6.1 m
Pump Rate:		*Static Water Level:*	
Flow Rate:		*Clear/Cloudy:*	
Specific Capacity:		*Final Well Status:*	Test Hole
Construction Method:	Other Method	*Flowing (y/n):*	
Elevation (m):		*Elevation Reliability:*	
Depth to Bedrock:		*Overburden/Bedrock:*	
Water Type:		*Casing Material:*	Not stated

--- Details ---

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Thickness:	GREY	*Original Depth:*	.61 m
Material Colour:	GRAVEL, SAND	*Material:*	.61 m
+			
Thickness:	BLACK	*Original Depth:*	1.83 m
Material Colour:	TOPSOIL	*Material:*	1.22 m
+			
Thickness:	GREY	*Original Depth:*	6.1 m
Material Colour:	CLAY, SILT	*Material:*	4.27 m

36	1 of 1	NW/77.4	99.0	ON	BORE

Borehole ID:	802033	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430167.376	*Northing:*	5015131.880
Location Accuracy:		*Orig. Ground Elev m:*	94.199997
Elev. Reliability Note:		*DEM Ground Elev m:*	100.300003
Total Depth m:	7.500000	*Primary Name:*	BH 11
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-8	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570530	*Top Depth m:*	0
Bottom Depth m:	3.800000	*Stratum Desc:*	Dark Brown to Brown Peat
+			
Stratum ID:	218570531	*Top Depth m:*	3.800000
Bottom Depth m:	5.900000	*Stratum Desc:*	Grey Firm to Soft Layered Clayey Silt & Sandy Silt Trace: F Sa
+			
Stratum ID:	218570532	*Top Depth m:*	5.900000
Bottom Depth m:	7.500000	*Stratum Desc:*	Grey Soft Silty Clay

37	1 of 1	E/214.0	95.0	Ottawa ON	WWIS

Well ID:	7173357	*Lot:*	
Concession:		*Concession Name:*	
County:	OTTAWA-CARLETON	*Municipality:*	GOULBOURN TOWNSHIP
Easting Nad83:	430960	*Northing Nad83:*	5014810
Zone:	18	*Utm Reliability:*	margin of error : 100 m - 300 m
Primary Water Use:	Monitoring and Test Hole	*Construction Date:*	07-NOV-11
Sec. Water Use:		*Well Depth:*	8 m
Pump Rate:		*Static Water Level:*	
Flow Rate:		*Clear/Cloudy:*	
Specific Capacity:		*Final Well Status:*	Test Hole
Construction Method:	Other Method	*Flowing (y/n):*	
Elevation (m):		*Elevation Reliability:*	
Depth to Bedrock:		*Overburden/Bedrock:*	
Water Type:		*Casing Material:*	Not stated

--- Details ---

Thickness:	BLACK	*Original Depth:*	1.83 m

Material Colour:	TOPSOIL	*Material:*	1.83 m
+			
Thickness:	GREY	*Original Depth:*	8 m
Material Colour:	CLAY, SILT	*Material:*	6.17 m

38 **1 of 1** **NW/85.8** **99.0** **ON** **BORE**

Borehole ID:	802040	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430138.181	*Northing:*	5015164.920
Location Accuracy:		*Orig. Ground Elev m:*	94.199997
Elev. Reliability Note:		*DEM Ground Elev m:*	100.699997
Total Depth m:	4.400000	*Primary Name:*	BH 13
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-9	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570558	*Top Depth m:*	0
Bottom Depth m:	1.800000	*Stratum Desc:*	Brown Peat
+			
Stratum ID:	218570559	*Top Depth m:*	1.800000
Bottom Depth m:	2.400000	*Stratum Desc:*	Brown Silt With: Org M
+			
Stratum ID:	218570560	*Top Depth m:*	2.400000
Bottom Depth m:	3	*Stratum Desc:*	Grey clay silt
+			
Stratum ID:	218570561	*Top Depth m:*	3
Bottom Depth m:	4.400000	*Stratum Desc:*	Grey Stiff Silty Clay

39 **1 of 1** **W/239.4** **102.0** **no address Kanata ON** **EHS**

Order No.:	20070614043
Report Date:	6/25/2007
Report Type:	CAN - Custom Report
Search Radius (km):	0.25
Addit. Info Ordered:	

40 **1 of 1** **NW/96.4** **97.1** **ON** **BORE**

Borehole ID:	802041	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430100.376	*Northing:*	5015207.120
Location Accuracy:		*Orig. Ground Elev m:*	94.099998
Elev. Reliability Note:		*DEM Ground Elev m:*	100.699997
Total Depth m:	2.900000	*Primary Name:*	BH 14
Township:		*Concession:*	
Lot:		*Municipality:*	

Completion Date:	1976-NOV-9	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570562	*Top Depth m:*	0
Bottom Depth m:	0.900000	*Stratum Desc:*	Brown Peat
+			
Stratum ID:	218570563	*Top Depth m:*	0.900000
Bottom Depth m:	2	*Stratum Desc:*	Grey sand silt Trace: Cl
+			
Stratum ID:	218570564	*Top Depth m:*	2
Bottom Depth m:	2.900000	*Stratum Desc:*	Grey Stiff Silty Clay

---

41 ***1 of 1*** ***NW/116.9*** ***96.0*** ***ON*** ***BORE***

Borehole ID:	802045	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Power auger	*UTM Zone:*	18
Easting:	430030.671	*Northing:*	5015286.410
Location Accuracy:		*Orig. Ground Elev m:*	94.099998
Elev. Reliability Note:		*DEM Ground Elev m:*	98.800003
Total Depth m:	1.500000	*Primary Name:*	BH 16
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-9	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570576	*Top Depth m:*	0
Bottom Depth m:	0.500000	*Stratum Desc:*	Brown Peat
+			
Stratum ID:	218570577	*Top Depth m:*	0.500000
Bottom Depth m:	1.500000	*Stratum Desc:*	Grey-Brown sand silt Trace: Cl

---

42 ***1 of 1*** ***NW/124.0*** ***96.0*** ***ON*** ***BORE***

Borehole ID:	802043	*Type:*	Borehole
Use:	Geotechnical/Geological Investigation	*Status:*	
Drill Method:	Hollow stem auger	*UTM Zone:*	18
Easting:	430014.076	*Northing:*	5015304.717
Location Accuracy:		*Orig. Ground Elev m:*	93.800003
Elev. Reliability Note:		*DEM Ground Elev m:*	98.800003
Total Depth m:	5.900000	*Primary Name:*	BH 15
Township:		*Concession:*	
Lot:		*Municipality:*	
Completion Date:	1976-NOV-9	*Static Water Level:*	
Primary Water Use:		*Sec. Water Use:*	

--- Details ---

Stratum ID:	218570569	*Top Depth m:*	0
Bottom Depth m:	2.300000	*Stratum Desc:*	Brown Peat
+			
Stratum ID:	218570570	*Top Depth m:*	2.300000

Map Key	Number of Records	Direction/ Distance m	Elevation m	Site	DB

Bottom Depth m:	3	*Stratum Desc:*	Grey clay silt Trace: Sa Tr Org M
+			
Stratum ID:	218570571	*Top Depth m:*	3
Bottom Depth m:	5.900000	*Stratum Desc:*	Grey Soft Silty Clay

43	***1 of 1***	***WNW/197.4***	***101.0***	***5618 Hazeldean Rd,5786&5657 Fernbank Rd,1489&1545 Shea Rd Ottawa ON***	***EHS***

Order No.:	20080212020
Report Date:	2/22/2008
Report Type:	Custom Report
Search Radius (km):	0.25
Addit. Info Ordered:	

Unplottable Summary

DB	Company Name/Site Name	Address	City	Postal
CA	CANADIAN TIRE REAL ESTATE LTD., GILPAUL	TERRY FOX DR.,GAS BAR SWM FAC.	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORP.	TERRY FOX DR.,CROSS KEY, SWM	KANATA CITY ON	
CA	BRENTAL DEVELOPMENT CORP.-T/A TAYLOR DEV	CASTLEFRANK SQUARE SHOPPING PL	KANATA CITY ON	
CA	KANATA RESEARCH PARK CORPORATION	TERRY FOX DR. KANATA N. BUS. P	KANATA CITY ON	
CA	TAYLOR DEVELOPMENTS	SHOPPING CEN., TERRY FOX DRIVE	KANATA CITY ON	
CA	KANATA CITY	PT.LOT 3/CON.1, TERRY FOX DR.	KANATA CITY ON	
CA	GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D	M.T.O. ACCES RD/TERRY FOX DR.	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY	FUTURE TERRY FOX DR.	KANATA CITY ON	
CA	KANATA CITY VALLEY-VU REALTY FORCEMAIN	FUTURE TERRY FOX DR. P.S.	KANATA CITY ON	
CA	BRENTAL DEVELOPMENT CORP. T/A TAYLOR DEV	STORMWATER MAN.-CASTLEFRANK SQ	KANATA CITY ON	
CA	CARLETON ROMAN CATHOLIC SCHOOL BOARD	STREET NO. 1/CASTLEFRANK RD.	KANATA CITY ON	
CA		Castlefrank Road	Ottawa ON	
CA		Castlefrank Road	Ottawa ON	
CA		Castlefrank Road	Ottawa ON	
CA	GENSTAR DEV. CO. EASTERN LTD.	CASTLEFRANK RD./STREETS 2&4	KANATA CITY ON	
CA	GENSTAR DEV. CO. EASTERN LTD.	CASTLEFRANK RD./STREETS 2&4	KANATA CITY ON	
CA	KANATA CITY	CASTLEFRANK RD.,KANATA CENTRUM	KANATA ON	

CA	KANATA CITY	CASTLEFRANK RD.,KANATA CENTRUM	KANATA ON
CA	GENSTAR DEV. CO. EASTERN LTD.	CASTLEFRANK RD., STREETS 1-4	KANATA CITY ON
CA	GENSTAR DEV. CO. EASTERN LTD.	CASTLEFRANK RD., STREETS 1-4	KANATA CITY ON
CA	MACDONALD DEVELOPMENT CORPORATION PH. 1	CASTLEFRANK RD. HAZELDEN CTR.	KANATA CITY ON
CA	PENEX KANATA LIMITED	CASTLEFRANK RD. (SWM)	KANATA CITY ON
CA	THOMAS H. HOWCROFT	CASTLEFRANK RD.	KANATA CITY ON
CA	CAMPEAU CORPORATION MARCHWOOD/LAKESIDE	CASTLEFRANK RD.	KANATA CITY ON
CA	Westcreek Meadows - Phase 2B	Part of West Half of Lot 30, Concession 11	Kanata ON
CA	Westcreek Meadows - Phase 2B	Part of West Half of Lot 30, Concession 11	Kanata ON
CA	CLARIDGE HOMES (KANATA) INC.	PT.LOT 30/CONC.XI (SWM)	KANATA CITY ON
CA	764703 ONTARIO INC.	PT.LOT 2/C-1, TERRY FOX BUS.PK	KANATA ON
CA	KANATA CITY	TERRY FOX DRIVE	KANATA CITY ON
CA	KANATA CITY KANATA N. BUSINESS PARK	TERRY FOX DRIVE	KANATA CITY ON
CA		Terry Fox Drive	Kanata ON
CA	Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road	Terry Fox Drive	Ottawa ON
CA	City of Ottawa	Terry Fox Drive from Statewood Drive to Second Line Rd	Ottawa ON
CA	City of Ottawa	Terry Fox Drive from Statewood Drive to Second Line Rd	Ottawa ON
CA	RICHGREEN REALTY CORP.	KANATA CORP.BUS.PK.TERRY FOX	KANATA CITY ON
CA	RICHGREEN REALTY CORPORATION	KANATA CORP.BUS.PK. TERRY FOX	KANATA CITY ON
ECA	2129786 Ontario Limited	Lot 29 and 30, Concession 10	Ottawa ON

ECA	City of Ottawa	TERRY FOX DR	City of Ottawa ON
ECA	City of Ottawa	West Transitway (from Didsbury Road West to Didsbury Road	City of Ottawa ON
ECA	City of Ottawa	Castlefrank Road, Ward 23 Kanata South	Ottawa ON
SPL	Van's Industrial & Specialty Coatings<UNOFFICIAL>	Terry Fox Drive, Nepean	Ottawa ON
SPL	Waste Management of Canada Corporation	Just off Castlefrank Road	Ottawa ON
SPL	PUC	TERRY FOX DR PAD TRANSFORMER BY NEWBRIDGE COMM. LTD.	KANATA CITY ON

Unplottable Report

Site: ***CANADIAN TIRE REAL ESTATE LTD., GILPAUL TERRY FOX DR.,GAS BAR SWM FAC. KANATA CITY ON***

Database: ***CA***

Certificate #:	3-0329-99-
Application Year:	99
Issue Date:	7/26/1999
Approval Type:	Municipal sewage
Status:	Cancelled
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA RESEARCH PARK CORP. TERRY FOX DR.,CROSS KEY, SWM KANATA CITY ON***

Database: ***CA***

Certificate #:	3-0087-96-
Application Year:	96
Issue Date:	4/1/1996
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***BRENTAL DEVELOPMENT CORP.-T/A TAYLOR DEV CASTLEFRANK SQUARE SHOPPING PL KANATA CITY ON***

Database: ***CA***

Certificate #:	7-0869-90-
Application Year:	90
Issue Date:	6/19/1990
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA RESEARCH PARK CORPORATION***
TERRY FOX DR. KANATA N. BUS. P KANATA CITY ON

Database: ***CA***

Certificate #:	7-0653-87-
Application Year:	87
Issue Date:	6/9/1987
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***TAYLOR DEVELOPMENTS***
SHOPPING CEN., TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #:	7-1321-88-
Application Year:	88
Issue Date:	8/19/1988
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY***
PT.LOT 3/CON.1, TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1095-94-
Application Year:	94
Issue Date:	10/4/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***GARFORD LTD. AND NOTLAW LTD.-TERRY FOX D***
M.T.O. ACCES RD/TERRY FOX DR. KANATA CITY ON

Database: ***CA***

Certificate #:	7-0939-91-
Application Year:	91
Issue Date:	8/2/1991

Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY VALLEY-VU REALTY FUTURE TERRY FOX DR. KANATA CITY ON*** ***Database:*** ***CA***

Certificate #:	7-1420-86-
Application Year:	86
Issue Date:	12/17/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY VALLEY-VU REALTY FORCEMAIN FUTURE TERRY FOX DR. P.S. KANATA CITY ON*** ***Database:*** ***CA***

Certificate #:	3-1793-86-
Application Year:	86
Issue Date:	12/17/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***BRENTAL DEVELOPMENT CORP. T/A TAYLOR DEV STORMWATER MAN.-CASTLEFRANK SQ KANATA CITY ON*** ***Database:*** ***CA***

Certificate #:	3-0775-90-
Application Year:	90
Issue Date:	5/9/1991
Approval Type:	Municipal sewage
Status:	Approved in 1991
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	

Project Description:
Contaminants:
Emission Control:

Site: ***CARLETON ROMAN CATHOLIC SCHOOL BOARD STREET NO. 1/CASTLEFRANK RD. KANATA CITY ON*** ***Database:*** ***CA***

Certificate #:	7-0478-90-
Application Year:	90
Issue Date:	4/12/1990
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Castlefrank Road Ottawa ON*** ***Database:*** ***CA***

Certificate #:	0829-5AYHMQ
Application Year:	02
Issue Date:	6/10/02
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	City of Ottawa
Client Address:	110 Laurier Avenue West
Client City:	City of Ottawa
Client Postal Code:	K1P 1J1
Project Description:	Approval is sought for the construction of storm sewers on Castlefrank Road.
Contaminants:	
Emission Control:	

Site: ***Castlefrank Road Ottawa ON*** ***Database:*** ***CA***

Certificate #:	6013-52RLJB
Application Year:	01
Issue Date:	9/21/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	KNL Developments Inc.
Client Address:	222 Somerset Street West, Suite 300
Client City:	Ottawa
Client Postal Code:	K2P 2G3
Project Description:	This application is for the construction of watermains on Castlefrank Road.
Contaminants:	
Emission Control:	

Site: ***Database:*** ***CA***

Castlefrank Road Ottawa ON

Certificate #:	8792-52RLAK
Application Year:	01
Issue Date:	9/21/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	KNL Developments Inc.
Client Address:	222 Somerset Street West, Suite 300
Client City:	Ottawa
Client Postal Code:	K2P 2G3
Project Description:	This application is for the construction of storm sewers on Castlefrank Road
Contaminants:	
Emission Control:	

Site: ***GENSTAR DEV. CO. EASTERN LTD.***
CASTLEFRANK RD./STREETS 2&4 KANATA CITY ON

Database: ***CA***

Certificate #:	7-0961-94-
Application Year:	94
Issue Date:	10/5/1994
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***GENSTAR DEV. CO. EASTERN LTD.***
CASTLEFRANK RD./STREETS 2&4 KANATA CITY ON

Database: ***CA***

Certificate #:	3-1279-94-
Application Year:	94
Issue Date:	10/5/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY***
CASTLEFRANK RD.,KANATA CENTRUM KANATA ON

Database: ***CA***

Certificate #:	7-1168-98-
Application Year:	98
Issue Date:	//
Approval Type:	Municipal water
Status:	In typing
Application Type:	

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

Site: ***KANATA CITY***
CASTLEFRANK RD.,KANATA CENTRUM KANATA ON

Database: ***CA***

Certificate #:	3-1799-98-
Application Year:	98
Issue Date:	12/9/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***GENSTAR DEV. CO. EASTERN LTD.***
CASTLEFRANK RD., STREETS 1-4 KANATA CITY ON

Database: ***CA***

Certificate #:	7-0978-94-
Application Year:	94
Issue Date:	10/13/1994
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***GENSTAR DEV. CO. EASTERN LTD.***
CASTLEFRANK RD., STREETS 1-4 KANATA CITY ON

Database: ***CA***

Certificate #:	3-1297-94-
Application Year:	94
Issue Date:	10/13/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***MACDONALD DEVELOPMENT CORPORATION PH. 1***
CASTLEFRANK RD. HAZELDEN CTR. KANATA CITY ON

Database: ***CA***

Certificate #:	3-0140-89-
Application Year:	89
Issue Date:	2/7/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***PENEX KANATA LIMITED***
CASTLEFRANK RD. (SWM) KANATA CITY ON

Database: ***CA***

Certificate #:	3-1096-94-
Application Year:	94
Issue Date:	10/4/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***THOMAS H. HOWCROFT***
CASTLEFRANK RD. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1180-87-
Application Year:	87
Issue Date:	7/9/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***CAMPEAU CORPORATION MARCHWOOD/LAKESIDE***
CASTLEFRANK RD. KANATA CITY ON

Database: ***CA***

Certificate #:	3-1508-87-

Application Year:	87
Issue Date:	8/21/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Westcreek Meadows - Phase 2B***
Part of West Half of Lot 30, Concession 11 Kanata ON

Database: ***CA***

Certificate #:	1686-4PZLMV
Application Year:	00
Issue Date:	10/12/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Claridge Homes (Kanata) Inc.
Client Address:	210 Gladstone Avenue, Suite #2001
Client City:	Ottawa
Client Postal Code:	K2P 0Y6
Project Description:	This application is for the installation of sanitary and storm sewers on Kincardine Drive to serve the Westcreek Meadows, Phase 2B, subdivision.
Contaminants:	
Emission Control:	

Site: ***Westcreek Meadows - Phase 2B***
Part of West Half of Lot 30, Concession 11 Kanata ON

Database: ***CA***

Certificate #:	2660-4PZM2T
Application Year:	00
Issue Date:	10/12/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Claridge Homes (Kanata) Inc.
Client Address:	210 Gladstone Avenue, Suite #2001
Client City:	Ottawa
Client Postal Code:	K2P 0Y6
Project Description:	This application is for the installation of watermains on Kincardine Drive to serve the Westcreek Meadows, Phase 2B, subdivision.
Contaminants:	
Emission Control:	

Site: ***CLARIDGE HOMES (KANATA) INC.***
PT.LOT 30/CONC.XI (SWM) KANATA CITY ON

Database: ***CA***

Certificate #:	3-1116-96-
Application Year:	96
Issue Date:	10/22/1996
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	

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

Site: ***764703 ONTARIO INC.***
PT.LOT 2/C-1, TERRY FOX BUS.PK KANATA ON

Database: ***CA***

Certificate #:	3-0982-98-
Application Year:	98
Issue Date:	7/31/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #:	3-1806-87-
Application Year:	87
Issue Date:	10/5/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***KANATA CITY KANATA N. BUSINESS PARK***
TERRY FOX DRIVE KANATA CITY ON

Database: ***CA***

Certificate #:	3-0786-87-
Application Year:	87
Issue Date:	6/9/1987
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Terry Fox Drive Kanata ON*** **Database:** ***CA***

Certificate #:	0854-4JBJN5
Application Year:	00
Issue Date:	4/13/00
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Ottawa-Carleton
Client Address:	111 Lisgar Street
Client City:	Ottawa
Client Postal Code:	K2P 2L7
Project Description:	Extension of the watermain on Terry Fox Drive from Winchester Drive south to Michael Cowpland Drive, with a 400 mm diameter watermain.
Contaminants:	
Emission Control:	

Site: ***Terry Fox Drive Stormwater Management Facility at Realigned Richardson Side Road Terry Fox Drive Ottawa ON*** **Database:** ***CA***

Certificate #:	1044-5E9JWT
Application Year:	02
Issue Date:	9/27/02
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	City of Ottawa
Client Address:	110 Laurier Avenue West
Client City:	City of Ottawa
Client Postal Code:	K1P 1J1
Project Description:	SWM Facility, quality and quantitay control with inlet and outlet sewers
Contaminants:	
Emission Control:	

Site: ***City of Ottawa Terry Fox Drive from Statewood Drive to Second Line Rd Ottawa ON*** **Database:** ***CA***

Certificate #:	1457-8EQHHL
Application Year:	2011
Issue Date:	4/14/2011
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***City of Ottawa Terry Fox Drive from Statewood Drive to Second Line Rd Ottawa ON*** **Database:** ***CA***

Certificate #:	6465-8EQHE7
Application Year:	2011
Issue Date:	4/14/2011
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***RICHGREEN REALTY CORP.***
KANATA CORP.BUS.PK.TERRY FOX KANATA CITY ON

Database: ***CA***

Certificate #:	7-1358-89-
Application Year:	89
Issue Date:	8/15/1989
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***RICHGREEN REALTY CORPORATION***
KANATA CORP.BUS.PK. TERRY FOX KANATA CITY ON

Database: ***CA***

Certificate #:	3-1634-89-
Application Year:	89
Issue Date:	8/15/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***2129786 Ontario Limited***
Lot 29 and 30, Concession 10 Ottawa ON

Database: ***ECA***

CofA Number:	2105-9BQJD3
Date:	23-SEP-13
Status:	Approved
Project Type:	Municipal and Private Sewage

Site: ***City of Ottawa***
TERRY FOX DR City of Ottawa ON

Database: ***ECA***

CofA Number:	2152-9EFQ3S
Date:	27-JAN-14
Status:	Approved
Project Type:	Municipal and Private Sewage

Site: ***City of Ottawa***
West Transitway (from Didsbury Road West to Didsbury Road City of Ottawa ON

Database: ***ECA***

CofA Number:	7991-9EYSYB
Date:	10-JAN-14
Status:	Approved
Project Type:	Municipal and Private Sewage

Site: ***City of Ottawa***
Castlefrank Road, Ward 23 Kanata South Ottawa ON

Database: ***ECA***

CofA Number:	8901-8MZJUX
Date:	11/4/2011
Status:	Approved
Project Type:	Municipal and Private Sewage

Site: ***Van's Industrial & Specialty Coatings<UNOFFICIAL>***
Terry Fox Drive, Nepean Ottawa ON

Database: ***SPL***

Ref No.:	2438-6GNMTJ
Incident Dt:	9/28/2005
MOE Reported Dt:	9/28/2005
Contaminant Name:	DIESEL FUEL
Contaminant Quantity:	
Incident Summary:	Van's Cleaning, 40 L diesel to road, ditch, sewer
Incident Cause:	Other Transport Accident
Incident Reason:	Adverse Road Condition - Road faults
Nature of Impact:	
Receiving Medium:	Land & Water
Environmental Impact:	Not Anticipated

Site: ***Waste Management of Canada Corporation***
Just off Castlefrank Road Ottawa ON

Database: ***SPL***

Ref No.:	3564-97AV77
Incident Dt:	01-MAY-13
MOE Reported Dt:	01-MAY-13
Contaminant Name:	HYDRAULIC OIL
Contaminant Quantity:	30 L
Incident Summary:	Waste Management - 30 L of hydraulic to road from truck.
Incident Cause:	Leak/Break
Incident Reason:	Equipment Failure
Nature of Impact:	Soil Contamination
Receiving Medium:	
Environmental Impact:	Not Anticipated

Ref No.:	4874
Incident Dt:	6/7/1988
MOE Reported Dt:	6/7/1988
Contaminant Name:	
Contaminant Quantity:	
Incident Summary:	KANATA HYDRO - 150 L MINERAL OIL (NO PCBS) TO GROUND.
Incident Cause:	COOLING SYSTEM LEAK
Incident Reason:	FIRE/EXPLOSION
Nature of Impact:	
Receiving Medium:	LAND
Environmental Impact:	

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd 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 Ecolog 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 all 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 Aug 2012

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-Jan 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 authoritive. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of all 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: 2001-Jun 2010

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-Aug 2011

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: 1948-Apr 2013

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: 1992, 1999-Jun 2010

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-Feb 2014

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Jul 2014

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-Jan 2014

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 31 2011-Jul 2014

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Jul 2014

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 CofA's 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 31, 2011-Feb 2014

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

EcoLog 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-Mar 2013

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*

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: Current to May 2013

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 all 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-Jul 2014

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of all 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: 2010-May 2013

Fuel Storage Tank - Historic: Provincial FSTH

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: 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-Apr 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 all 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: June 2009-Apr 2013

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: 2012

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 planimetric (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-Apr 2013

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: 1994-2012

National Defence & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defence 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 Defence & Canadian Forces Spills: Federal NDSP

The Department of National Defence 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 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 all 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. All federal out-of-service PCB containing equipment and all 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: 1993-2011

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.

Government Publication Date: 1988-Jun 2014

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, well cap date, licence 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: 1800-2013

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Jul 2014

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 all 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 Environment maintains a database of all manufacturers and vendors of registered pesticides.

Government Publication Date: 1988-Jun 2013

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: June 2009-Mar 2012

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Jul 2014

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: 1986-2012

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-Jun 2014

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jun 2010

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-Feb 2014

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: 1990-2011

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

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Mar 2007

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: Current to Jun 2013

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-Feb 2014

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: 1955-Mar 2014

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 were included as reference.

APPENDIX C

City Directory Records

ENVIRONMENTAL RISK INFORMATION SERVICE

Head Office: 80 Valleybrook Dr, Toronto, ON M3B 2S9
Physical Address: 38 Lesmill Rd, Toronto, ON M3B 2T5
Phone: 416-510-5204 • Fax: 416-510-5133
info@erisinfo.com • www.erisinfo.com

City Directory Information Source
Vernon's Ottawa, ON City Directory

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 2011	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Kevin Haim Golf Centre
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 2006/07	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Kevin Haim Golf Centre
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 2000/01	
Site Listing:	- Address Not Listed

Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1995/96	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed

560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1990	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1984	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1979	
Site Listing:	- Address Not Listed

Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1974	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed

570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	
Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1969	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

PROJECT NUMBER: 20140819048	

Site Address:	950 Terry Fox Drive, Ottawa, Ontario
Year: 1964	
Site Listing:	- Address Not Listed
Adjacent Properties:	
820 Terry Fox Drive	- Address Not Listed
5431 Fernbank Road	- Address Not Listed
560 Hazeldean Road	- Address Not Listed
570 Hazeldean Road	- Address Not Listed
105 Tapadero Avenue	- Address Not Listed

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

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

APPENDIX D

Technical Standards and Safety Authority Search Results

Subject: Re: Search for USTs - Project 14-346
From: Public Information Services <publicinformationservices@tssa.org>
Date: 21/08/2014 12:56 PM
To: Samantha Sabo <ssabo@hceng.ca>

Hi Samantha:

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Thank you and have a great day!

Prem
Public Information Services

"Putting Public Safety First"

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

Toll-Free: 1-877-682-8772
Email: publicinformationservices@tssa.org
Web Site: www.tssa.org

On Thu, Aug 21, 2014 at 12:52 PM, Samantha Sabo <ssabo@hceng.ca> wrote:

> Good afternoon,
>
> Could you please perform a search of the following address for USTs?
>
> 820, 950 and 1039 Terry Fox Drive
> 570 Hazeldean Road
> 5431 Fernbank Road
> 1 Connelly Place
>
> All addresses are located in Ottawa (Kanata), Ontario

Thank you for your assistance!

Best regards,

Samantha
--

Samantha Sabo, B.Sc., M.Env.
Environmental Scientist
tel: 613.836.1422 ext. 261
cell: 613.229.3175

Houle Chevrier Engineering

180 Wescar Lane • Ottawa, Ontario • K0A 1L0
www.hceng.ca

This email is directed in confidence solely to the person(s) to whom it was addressed and may contain privileged, confidential or private information that is not to be disclosed. If you are not the addressee or an authorized representative thereof, please contact the sender and delete this email and any attachments. Houle Chevrier Engineering Ltd. does not accept liability for any damage caused by any virus transmitted by this email. It is the recipients' responsibility to screen this email and its attachments for viruses prior to opening them.

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

APPENDIX E

City of Ottawa Freedom of Information Request

DISCLAIMER

For use with HLUI Database

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

The City, in providing information from the HLUI, to Houle Chevrier Engineering Ltd. ("the Requester") does so only under the following conditions and understanding:

1. This is a free service offered by the City.

2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided "as is".

3. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information to be provided by the City to the Requester is provided on the assumption that no person shall rely on it without undertaking independent verification of it for any purpose whatsoever and all liability to any such person is denied.

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

5. Copyright is reserved to the City.

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

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

8. All information collected under this request and all records provided in response to this request are subject to the provisions of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990,c. M56, as amended.

Signed: Samantha Sabo

Dated: August 19, 2014

Per: Samantha Sabo, M.Env.
(Please print name)
Title: Environmental Scientist
Company: Houle Chevrier Engineering Ltd.

CONFIDENTIAL

File No.:14-346
Deadline for Response: ASAP Please

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

a) Name of Requester: Samantha Sabo
b) Address of Requester: 180 Wescar Lane, RR 2, Carp, Ontario, K0A 1L0
c) Telephone Number: 613-836-1422 ext. 261
d) Site Address: 950 Terry Fox Drive
e) Legal Plan Attached: Yes ( ) No (X)
f) Site Owner: SPB Developments Inc.
g) Adjacent Property Owners: _____

h) Date of Ownership: N/A
Previous Owner(s): N/A

i) Type of Site: (X) vacant, ( ) residential, ( ) commercial,
( ) other (specify)___
j) Requestors relationship to Site: Consultant
k) Date of Previous Request: _____
l) Date of Previous ESA: _____
m) Information Requested: All

2. CONFIDENTIALITY

a) Consent Required: (x) Owner ( ) Tenant ( ) Purchaser ( ) Legal**
b) Consent Obtained: (x) Owner ( ) Tenant ( ) Purchaser ( ) Legal**

*(If formal MFIPPA request, please forward to Corporate Access and Privacy Coordinator, Clerk's Department)
**(Consent letters must contain the information required, give authorization to requestor, and be dated and signed)

Houle Chevrier Engineering

Houle Chevrier Engineering Ltd.
180 Wescar Lane
Ottawa, Ontario
K0A 1L0

tel: 613.836.1422
fax: 613.836.9731
info@hceng.ca
www.hceng.ca

SPB Developments Inc.
114 Arbourbrook Boulevard
Ottawa, Ontario
K0A 1L0

August 18, 2014
Project: 14-346

Attention: Mr. Pierre Bernier

Re: Consent to Disclose Information
950 Terry Fox Drive
Ottawa, Ontario

Dear Sir,

We have been retained to carry out a Phase One Environmental Site Assessment (ESA) for the property located at 950 Terry Fox Drive in Ottawa, Ontario.

We are requesting consent from the owner of the subject property for the City of Ottawa to disclose information for the purpose of the Phase One Environmental Site Assessment. This will authorize the City of Ottawa to release any relevant information about the property to the requester.

To provide consent, please sign and date the following section and e-mail or fax to: Houle Chevrier Engineering, Attn. Samantha Sabo, e-mail: ssabo@hceng.ca, fax: 613-836-9731.

Owner Signature

Date Aug 18/2014

PIERRE BERNIER FOR SPB DEVELOPMENTS INC
Owner Name (Please Print)

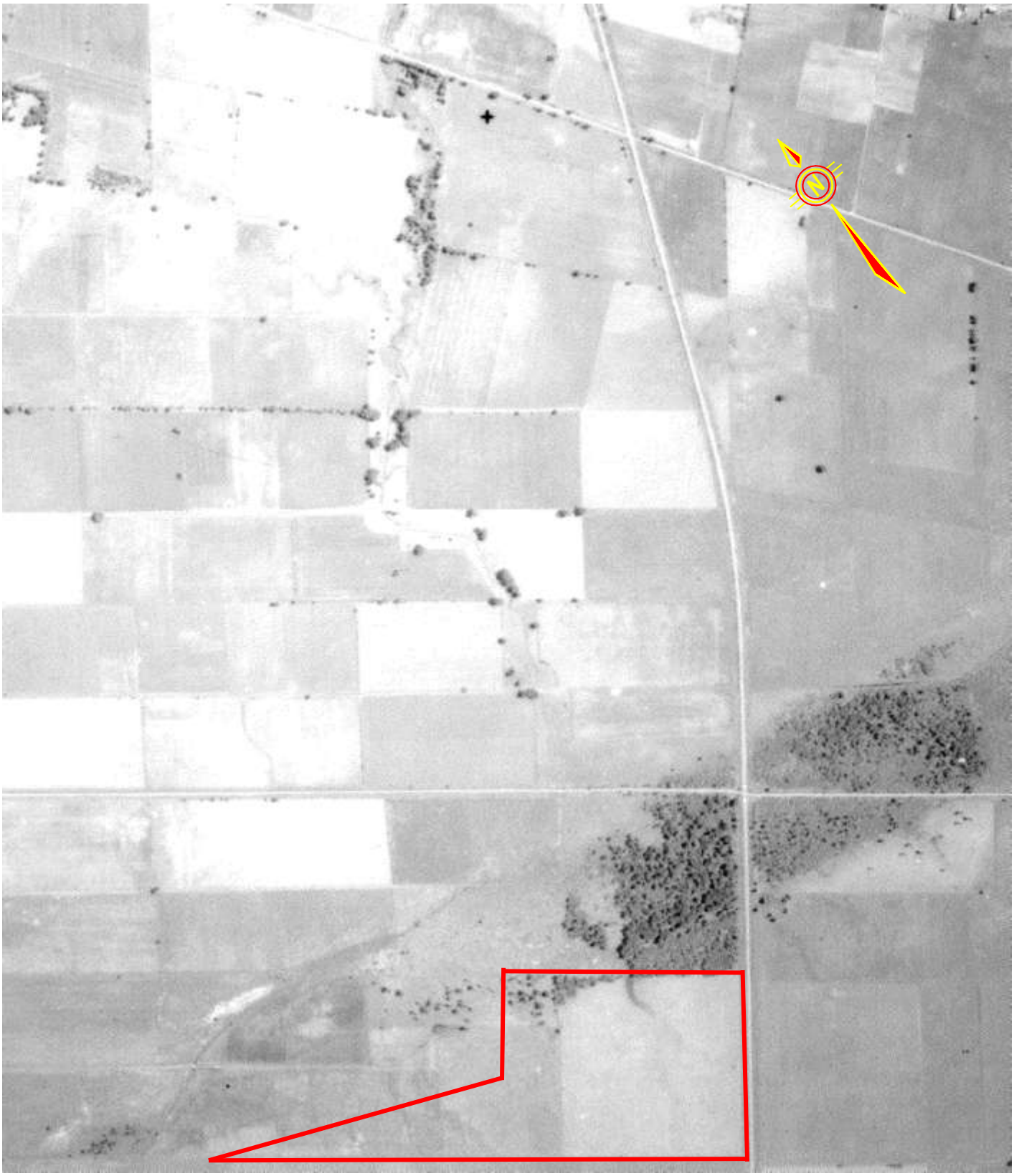
Thank you for your assistance regarding this matter.

Samantha Sabo

Samantha Sabo, B.Sc., M.Env.
Environmental Scientist

APPENDIX F

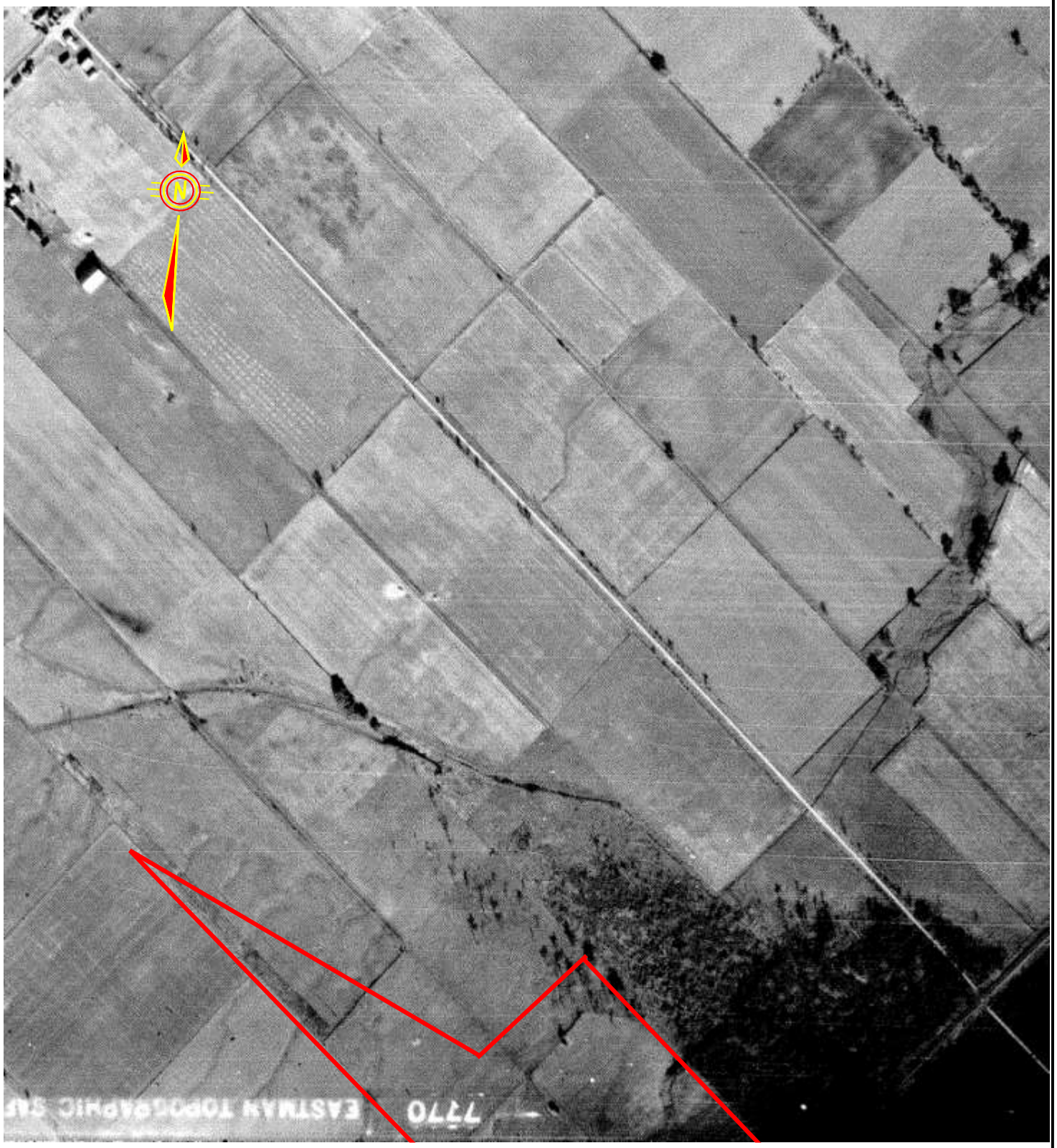
Aerial Photographs



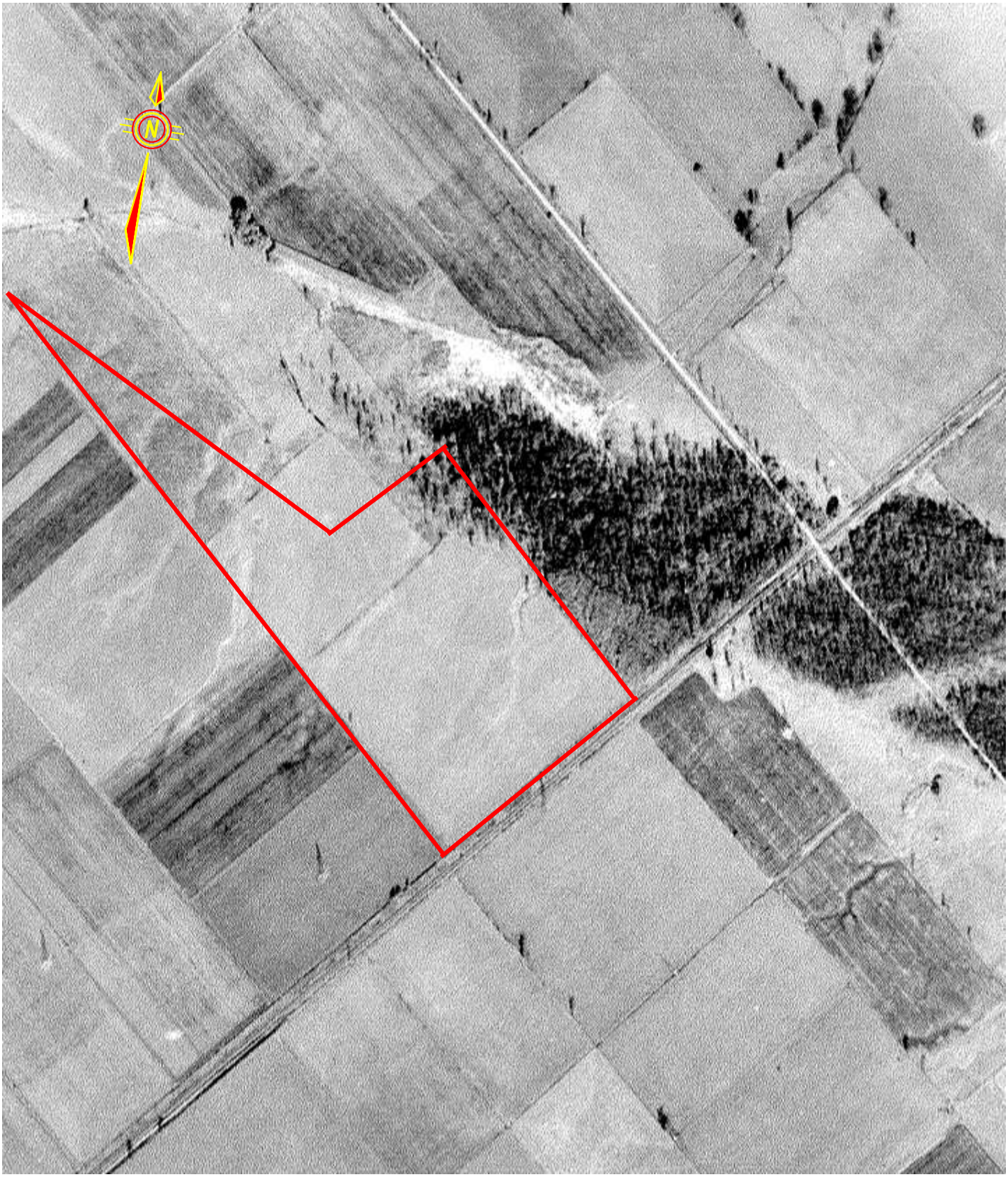
Houle Chevrier Engineering

1934 AERIAL PHOTOGRAPH

PLATE F1



Houle Chevrier Engineering	1945 AERIAL PHOTOGRAPH	PLATE F2



Houle Chevrier Engineering

1960 AERIAL PHOTOGRAPH

PLATE F3

Houle Chevrier Engineering

1974 AERIAL PHOTOGRAPH

PLATE F4

Houle Chevrier Engineering

1984 AERIAL PHOTOGRAPH

PLATE F5

Houle Chevrier Engineering

2011 AERIAL PHOTOGRAPH

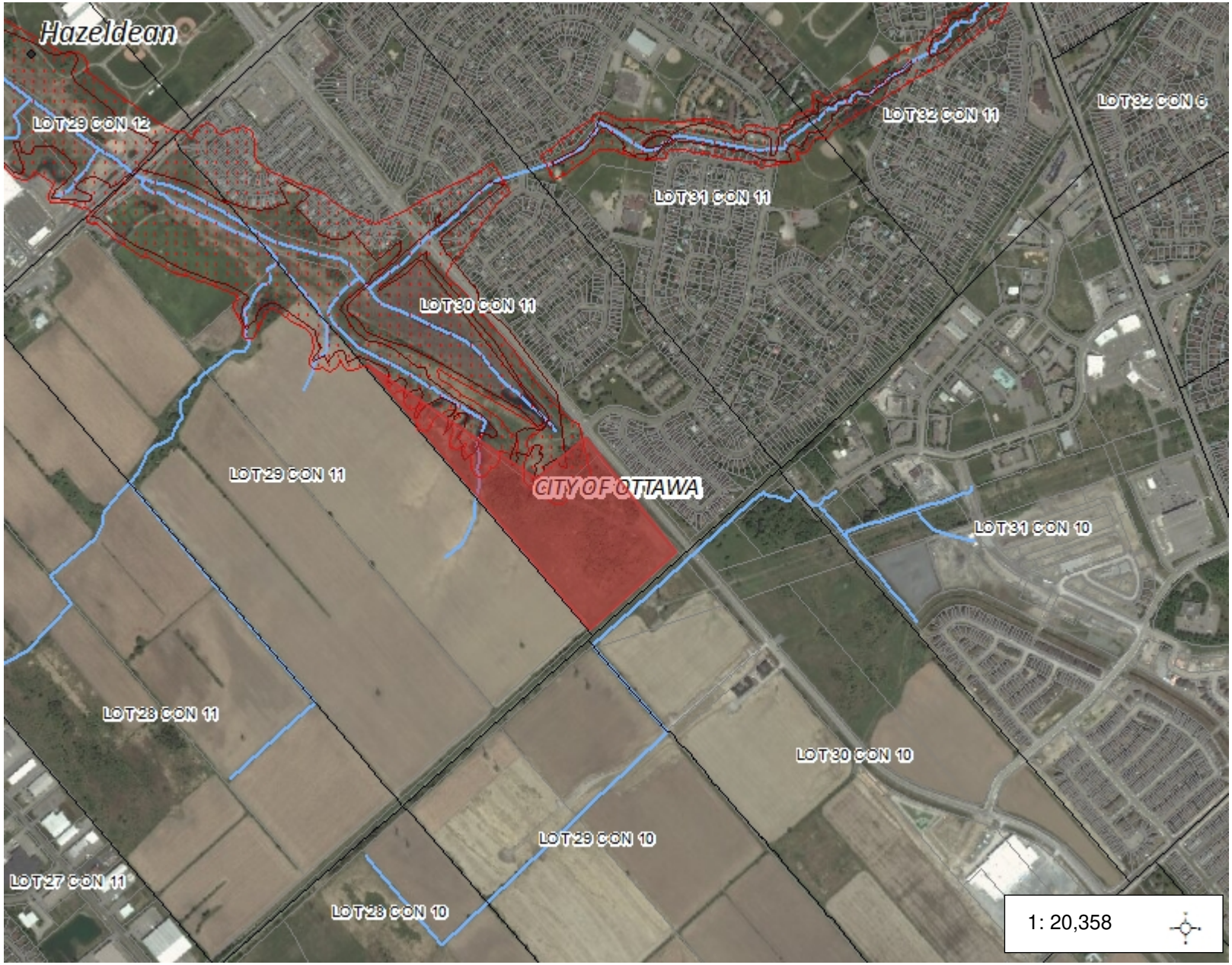
PLATE F6

APPENDIX G

Mississippi Valley Conservation Authority
Map of Provincially Significant Wetlands and
Areas of Natural and Scientific Interest

Mississippi Valley Conservation
Balancing the Needs of the Natural Environment with the Needs of the Communitu

MVC Map Output - Landscape



Legend

- Communities
- Floodplain
- MVC Regulation Extent
- Provincially Significant Wetlanc
- Lot and Concession
- Wetland
- Waterbodies
- Streams
- MVC Conservation Areas
- Assessment Parcels
- Municipalities
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery

Notes

1.0 0 0.52 1.0 Kilometers

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Mississippi Valley Conservation Authority

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

APPENDIX H

Ministry of Environment of Ontario
Well Records

Well Computer Print Out Data as of August 26 2014

TOWNSHIP CONCESSION (LOT)	UTM[1]	DATE[2] CNTR[3]	CASING DIA[4]	WATER[5,6] DETAIL	STAT LVL/PUMP LVL[7] RATE[8]/TIME HR:MIN	WATER USE[9]	SCREEN INFO[10]	WELL # (AUDIT#) WELL TAG # STATE[12] DEPTHS TO WHICH FORMATIONS EXTEND[5,11]
GOULBOURN TOWNSHIP CON 11(029)	18 429800 5014892 L	1986/04 5222	06 06	FR 0110 FR 0096	012 / 110 015 / 3:0	DO		1520463 () GREY FILL LOOS 0002 GREY ROCK FCRD LOOS 0004 GREY LMSN MGRD HARD 0120
GOULBOURN TOWNSHIP CON 11(029)	18 429800 5014892 L	1992/11 3142	06 06	FR 0178	005 / 025 020 / 2:0	DO		1526759 (125370) BRWN CLAY PCKD 0018 BLUE CLAY LOOS 0026 GREY LMSN HARD 0170 BRWN LMSN PORS 0180 GREY LMSN HARD 0181
GOULBOURN TOWNSHIP CON 11(029)	18 429796 5014893 L	2000/08 1558	06 06	UK 0180	/ 050 / 1:0	DO		1531322 (220908) BRWN CLAY SNDY STKY 0008 GREY CLAY 0036 GREY LMSN HARD 0180
GOULBOURN TOWNSHIP CON 11(031)	18 430791 5015202 W	1960/12 4825	04 04	FR 0084	035 / 050 006 / 1:0	DO		1502935 () FILL 0010 SNDS 0085
GOULBOURN TOWNSHIP ()	18 430609 5014533 W	2011/07 1844						7176831 (M06853) A110656 P
GOULBOURN TOWNSHIP ()	18 431041 5014904 W	2011/11 7241	02			MT	31 5	7173355 (Z140280) A123817 GREY GRVL SAND 0002 BLCK LOAM 0006 GREY CLAY SILT 0036
GOULBOURN TOWNSHIP ()	18 430960 5014810 W	2011/11 7241	02			MT	22 4	7173357 (Z140282) A123841 BLCK LOAM 0006 GREY CLAY SILT 0026
GOULBOURN TOWNSHIP ()	18 430939 5014818 W	2011/11 7241	02			MT	15 5	7173358 (Z140281) A123774 GREY GRVL SAND 0002 BLCK LOAM 0006 GREY CLAY SILT 0020
MARCH TOWNSHIP CON 02(030)	18 429748 5015661 W	2001/10 1558						1532407 (230290) A

Notes:
1. UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid
2. Date Work Completed
3. Well Contractor Licence Number
4. Casing diameter in inches
5. Unit of Depth in Feet
6. See Table 4 for Meaning of Code
7. STAT LVL: Static Water Level in Feet ; PUMP LVL: Water Level After Pumping in Feet
8. Pump Test Rate in GPM, Pump Test Duration in Hour : Minutes
9. See Table 3 for Meaning of Code
10. Screen Depth and Length in feet
11. See Table 1 and 2 for Meaning of Code
12. A: Abandonment; P: Partial Data Entry Only

1. Core Material and Descriptive terms

Code	Description	…	Code	Description	…	Code	Description	…	Code	Description	…	Code	Description
BLDR	BOULDERS		FCRD	FRACTURED		IRFM	IRON FORMATION		PORS	POROUS		SOFT	SOFT
BSLT	BASALT		FGRD	FINE-GRAINED		LIMY	LIMY		PRDG	PREVIOUSLY DUG		SPST	SOAPSTONE
CGRD	COARSE-GRAINED		FGVL	FINE GRAVEL		LMSN	LIMESTONE		PRDR	PREV. DRILLED		STKY	STICKY
CGVL	COARSE GRAVEL		FILL	FILL		LOAM	TOPSOIL		QRTZ	QUARTZITE		STNS	STONES
CHRT	CHERT		FLDS	FELDSPAR		LOOS	LOOSE		QSND	QUICKSAND		STNY	STONEY
CLAY	CLAY		FLNT	FLINT		LTCL	LIGHT-COLOURED		QTZ	QUARTZ		THIK	THICK
CLN	CLEAN		FOSS	FOSILIFEROUS		LYRD	LAYERED		ROCK	ROCK		THIN	THIN
CLYY	CLAYEY		FSND	FINE SAND		MARL	MARL		SAND	SAND		TILL	TILL
CMTD	CEMENTED		GNIS	GNEISS		MGRD	MEDIUM-GRAINED		SHLE	SHALE		UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE		GRNT	GRANITE		MGVL	MEDIUM GRAVEL		SHLY	SHALY		VERY	VERY
CRYS	CRYSTALLINE		GRSN	GREENSTONE		MRBL	MARBLE		SHRP	SHARP		WBRG	WATER-BEARING
CSND	COARSE SAND		GRVL	GRAVEL		MSND	MEDIUM SAND		SHST	SCHIST		WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED		GRWK	GREYWACKE		MUCK	MUCK		SILT	SILT		WTHD	WEATHERED
DLMT	DOLOMITE		GVLY	GRAVELLY		OBDN	OVERBURDEN		SLTE	SLATE			
DNSE	DENSE		GYPS	GYPSUM		PCKD	PACKED		SLTY	SILTY			
DRTY	DIRTY		HARD	HARD		PEAT	PEAT		SNDS	SANDSTONE			
DRY	DRY		HPAN	HARDPAN		PGVL	PEA GRAVEL		SNDY	SANDY			

2. Core Color

Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GREN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Water Use

Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial	MT	Monitoring & Test Hole
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail

Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		

APPENDIX I

Site Photographs

Houle Chevrier Engineering	VIEW OF THE SUBJECT PROPERTY FROM THE TRANSCANADA TRAIL.	PLATE I1

Houle Chevrier Engineering	VIEW OF THE SUBJECT PROPERTY FROM A BERM LOCATED TO THE SOUTHWEST.	PLATE I2

Houle Chevrier Engineering	VIEW OF THE DRAINAGE DITCH ALONG THE NORTHEASTERN PORTION OF THE SUBJECT PROPERTY.	PLATE I3

APPENDIX J

Plan of Survey

METRIC DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SCHEDULE			
PART	PART OF	CONCESSION	PIN
1 & 2	THE ROAD ALLOWANCE BETWEEN CONCESSIONS 10 & 11		ALL OF 04450-1281
3	LOT 30	11	
4			PART OF 04450-0188
5			

PART 1 – SUBJECT TO EASEMENT INST. GB10267.
PART 3 – SUBJECT TO EASEMENT INST. OC277724 & INST. OC277725.

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE April 30, 2010

DAVID W. WOODLAND, O.L.S.

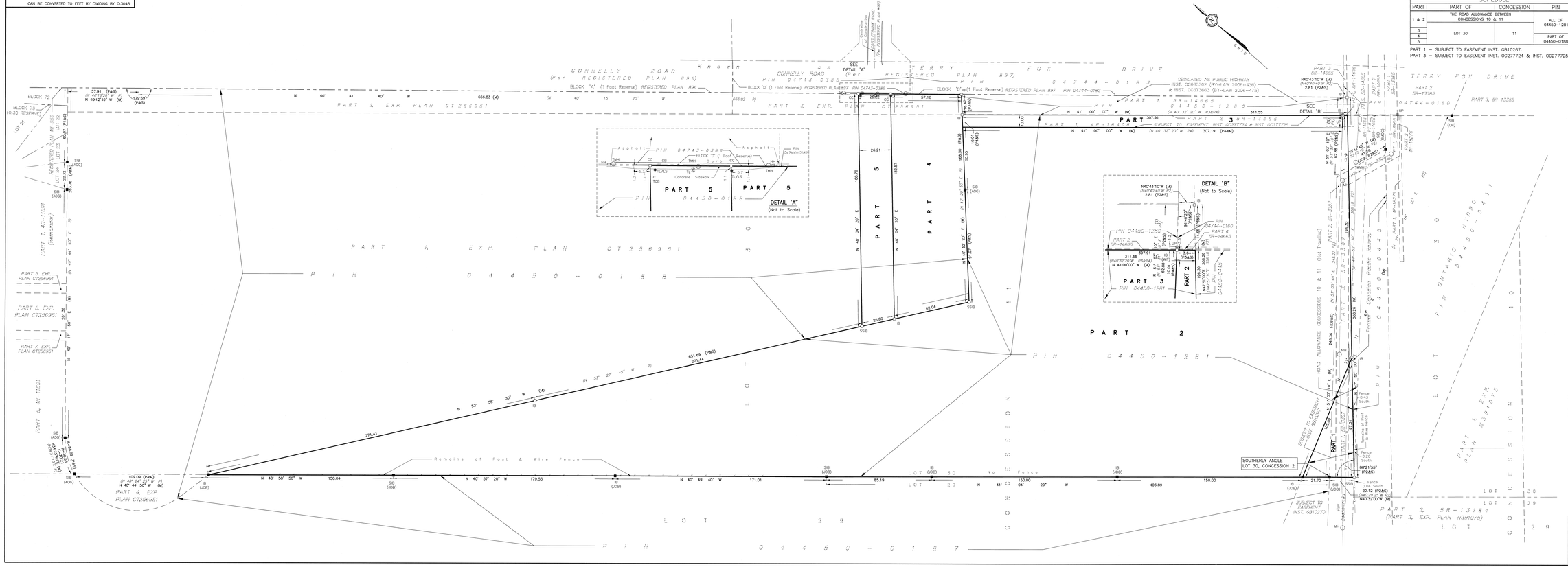
PLAN 4R-24454

RECEIVED AND DEPOSITED

DATE April 30, 2010

MSSR. PER C. Holloway

LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA – CARLETON (N° 4)


CONNELLY ROAD (Per REGISTERED PLAN 896)
BLOCK 'A' (1 Foot Reserve) REGISTERED PLAN 896
CONNELLY ROAD PIN 04743-0385
BLOCK 'B' (1 Foot Reserve) REGISTERED PLAN897 PIN 04743-0386
TERRY FOX DRIVE (Per REGISTERED PLAN 897)
BLOCK 'D' (1 Foot Reserve) REGISTERED PLAN 897 PIN 04744-0183
DEDICATED AS PUBLIC HIGHWAY INST. OC663302 (BY-LAW 2006-436) & INST. OC673663 (BY-LAW 2006-475)
PART 1, 5R-14665 04450-1280 (N 40° 32' 20" W P38A)
PART 3, 5R-14665
PART 1, 4R-16408 SUBJECT TO EASEMENT INST. OC277704 & INST. OC277725
PART 2, EXP. PLAN CT256951
PART 1, EXP. PLAN CT256951
PART 5
PART 4
PART 2
PART 3
PART 1
PART 4, EXP. PLAN CT256951
PART 6, EXP. PLAN CT256951
PART 7, EXP. PLAN CT256951
PART 5, 4R-11691
PART 1, 4R-11691 (Remainder)
PART 3, 5R-13385
PART 2, 5R-13384 (PART 2, EXP. PLAN N391073)
PART 1, EXP. PLAN N391073
PIN 04450-0188
PIN 04450-1281
PIN 04450-1280
PIN 04450-0187
PIN 04744-0160
PIN 04744-0183
PIN 04743-0386
PIN 04743-0385
PIN 04450-0185
PIN 04450-0186
PIN 04450-0187
PIN 04450-1281
PIN 04450-1280
PIN 04450-1283
PIN 04450-1284
PIN 04450-1285
PIN 04450-1286
PIN 04450-1287
PIN 04450-1288
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PIN 04450-1290
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PIN 04450-1292
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PIN 04450-1294
PIN 04450-1295
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PIN 04450-1297
PIN 04450-1298
PIN 04450-1299
PIN 04450-1300
PIN 04450-1301
PIN 04450-1302
PIN

geotechnical

environmental

hydrogeology

materials testing & inspection

experience • knowledge • reliability