



**CHUNG & VANDER DOELEN**  
ENGINEERING LTD.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**PARTS OF LOTS 2 and 3 CONCESSION 10**  
AMARANTH, ONTARIO

**SUBMITTED TO:**  
Mr. Walter Broos  
Sarah Properties Ltd.  
2 Prince Edward Road  
Woodstock, Ontario  
N4V 1G7

**FILE NO:** E16220 / March 31, 2016



**CHUNG & VANDER DOELEN**  
ENGINEERING LTD.

311 VICTORIA STREET NORTH  
KITCHENER / ONTARIO / N2H 5E1  
519-742-8979

March 31, 2016  
**FILE NO.:** E16220

Mr. Walter Broos  
Sarah Properties Ltd.  
2 Prince Edward Road  
Woodstock, Ontario  
N4V 1G7

Dear Mr. Broos:

**RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**Part of Lots 2 and 3 Concession 10**  
**AMARANTH, ONTARIO**

We are enclosing one (1) copy of our Phase I ESA report conducted for the above-referenced property.

If you have any questions or clarifications are required, please contact the undersigned at your convenience.

We thank you for giving us this opportunity to be of service to you.

Yours truly,

**CHUNG & VANDER DOELEN ENGINEERING LTD.**

Michael J. Lefebvre, P.Ge.  
Manager, Environmental Services

## TABLE OF CONTENTS

TABLE OF CONTENTS.....	i
APPENDICES.....	i
1.0 EXECUTIVE SUMMARY .....	1
2.0 INTRODUCTION.....	2
2.1 Phase I Property Information .....	2
3.0 SCOPE OF THE INVESTIGATION.....	2
4.0 RECORDS REVIEW .....	3
4.1 General .....	3
4.1.1 Phase I Study Area Determination .....	3
4.1.2 Site History.....	3
4.1.3 Fire Insurance Plans .....	3
4.1.4 Previous Investigations.....	4
4.2 Environmental Source Information .....	4
4.3 Physical Setting Sources .....	5
4.3.1 Aerial Photographs.....	5
4.3.2 Topography, Hydrology, Geology.....	6
4.3.3 Fill Materials.....	6
4.3.4 Water Bodies and Areas of Natural Significance.....	6
4.4 Site Operating Records.....	7
5.0 INTERVIEWS .....	7
6.0 SITE RECONNAISSANCE.....	7
6.1 General Requirements.....	7
6.2 Specific Observations at Phase I Property.....	7
6.3 Surrounding Properties Phase I Study Area .....	8
7.0 Review and Evaluation of Information .....	9
7.1 Current and Past Uses on the Phase I Property .....	9
7.2 Potential Contaminating Activities (PCAs).....	9
7.3 Areas of Potential Environmental Concerns (APECs) .....	9
8.0 CONCLUSIONS.....	10
9.0 STUDY LIMITATIONS .....	11
10.0 REFERENCES.....	12

## APPENDICES

APPENDIX A	KEY PLAN
APPENDIX B	SITE PLAN
APPENDIX C	AERIAL PHOTOGRAPHS
APPENDIX D	SITE PHOTOGRAPHS
APPENDIX E	CORRESPONDENCE
APPENDIX F	ECOLOG ERIS REPORT
APPENDIX G	QUALIFICATIONS OF ASSESSOR



## 1.0 EXECUTIVE SUMMARY

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) was retained by Mr. Walter Broos of Sarah Properties Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at Parts of Lots 2 and 3 Concession 10 in Waldemar (Amaranth), Ontario (hereinafter referred to as the "Site").

The Site, approximately 32.5 hectares in area, is located immediately west of the residential community of Waldemar, Ontario. The Site is undeveloped agricultural land, zoned for community residential use by the Township of Amaranth.

The purpose of the Phase I ESA is to evaluate the environmental conditions of the Site and adjacent properties to identify any actual or potential sources of contamination associated with current and historical land uses. It is our understanding that this assessment is required for due diligence purposes to support a financing agreement and that a Record of Site Condition (RSC) is not intended for the Site.

The findings of the Phase I ESA did not identify any actual or potential sources of contamination on the Site or surrounding properties. It is CVD's professional opinion that the potential for significant environmental liabilities associated with the Site under investigation is therefore low and no further investigations are required at this time. This opinion is based on the following:

- The Site does not appear to have ever been used for any land use that may produce, store, or dispose of environmentally hazardous materials.
- The neighbouring properties adjacent to the Site are not expected to pose an environmental concern for the Site. Past activities on the neighbouring properties are not expected to pose a significant environmental concern for the Site.





## 2.0 INTRODUCTION

### 2.1 Phase I Property Information

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) was retained by Mr. Walter Broos of Sarah Properties Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at Parts of Lots 2 and 3 Concession 10 in Waldemar (Amaranth), Ontario (hereinafter referred to as the "Site"). The property is comprised of several parts with legal descriptions of: (a) Part 1, 7R-3101 of Lot 2 Concession 10 - PIN: 34043-006, (b) Part 1, 7R-3187 of Lot 3 Concession 10 - PIN: 34043-0013, (c) Parts 1 to 3, 7R3576 and Part 12, 7R3229 of Lots 2 Concession 10 - PIN: 34043-0027, Amaranth, Ontario.

The Site, approximately 32.5 hectares in area, is located immediately west of the residential community of Waldemar, Ontario. At the time of this Phase 1 ESA, it is undeveloped agricultural land. Based on historical aerial photos, the land use was observed to be unchanged since 1930.

The Township of Amaranth Official Plan Consolidation September 2010 (Schedule A-1) map identified the Site as zoned community residential land. Adjacent to the east are developed community residential properties. Adjacent to the south and west are agricultural fields. The Upper Grand Trailway, formerly the Toronto Grey and Bruce Railway Line, parallels the northern property line with agricultural and extractive industrial properties located on the opposite side.

The purpose of the Phase I ESA is to evaluate the environmental conditions of the Site and to identify actual or potential sources of contamination associated with the Site and surrounding properties. It is our understanding that this assessment is required for due diligence purposes to support a financing agreement and that a Record of Site Condition (RSC) is not intended for the Site.

Appendix A shows the location of the Site. A Site Plan is available in Appendix B.

## 3.0 SCOPE OF THE INVESTIGATION

CVD conducted this Phase I ESA in general accordance with the amended Ontario Regulation 153/04 (O. Reg. 153/04 as amended). This report also conforms to Canadian Standards Association (CSA) Z768-01 (2012). These procedures set standards for review of information pertaining to the Site, development of detailed checklists or protocols, conducting the Site inspection, and preparation of the final report. This report may not satisfy all of the necessary requirements for filing a Record of Site Condition (RSC) under O. Reg. 153/04 as amended.

The scope of work for the Phase I ESA consisted of the following tasks:

- Site reconnaissance on March 23, 2016;
- An interview via phone with Mr. Walter Broos of Sarah Properties Ltd.;
- A review of city directories and fire insurance plans (FIPs) to determine previous occupants of



the Site and surrounding properties and to determine the first developed use of the Site, if available;

- A search of available databases to identify actual or potential sources of contamination associated with the Site and surrounding properties;
- Review of previous environmental reports, if available;
- Interpretation of available aerial photographs;
- Interpretation of available topographic maps;
- Prepare this report with conclusions based on the information obtained during this assessment.

CVD relies on information received from all parties as accurate, unless contradicted by field observations or written documentation.

## **4.0 RECORDS REVIEW**

### **4.1 General**

Available information sources including regulatory data-bases were assessed in an effort to gain information related to past Site activities, and to address potential environmental issues that may be present at, or in the vicinity of the Site.

#### **4.1.1 Phase I Study Area Determination**

A preliminary review of the documents listed in Section 4.0 indicates that there are no obvious concerns with any properties outside a 250 m radius of the Site. The study area for the Phase I ESA is therefore determined to be within a 250 m radius of the Site.

#### **4.1.2 Site History**

The Site, at the time of this Phase 1 ESA, is undeveloped agricultural land. Based on historical aerial photos, the Site was observed to have been undeveloped and/or agricultural land since 1930.

#### **4.1.3 Fire Insurance Plans**

A search for available Canadian Fire Insurance Plans (FIPs) was completed. However, no coverage by FIPs for the Site and surrounding properties were identified.



#### **4.1.4 Previous Investigations**

Previous environmental reports were not available to CVD during the completion of the Phase I ESA.

#### **4.2 Environmental Source Information**

A summary of information obtained from available resource documents and from regulatory agency databases is provided as follows.

##### Inventory of Coal Gasification Plant Waste Sites in Ontario

A review of the Intera Technologies Ltd. "Inventory of Coal Gasification Plant Waste Sites in Ontario (April 1987)" revealed that the Site and surrounding properties within 250 m have not been used for the gasification of coal.

##### Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario

A review of the Intera Technologies Ltd. "Inventory of Industrial Sites Producing Coal Tars and Related Tars in Ontario (July 1988)" revealed that the production and use of coal or other tars has not taken place at the Site or surrounding properties within 250 metres.

##### Ministry of the Environment and Climate Change (MOECC) Inventory of PCB Storage Sites in Ontario

The site and surrounding properties within 250 metres are not listed in the "Ontario Inventory of PCB Storage Sites, September 1998" as a PCB storage site.

##### MOECC Freedom of Information (FOI) Request

A FOI request was submitted to the MOECC for information regarding any environmental concerns, orders, spills, investigations/prosecutions, Waste Generator Numbers/Classes and Certificates of Approval related to the Site. However, it can take several weeks to receive a response from the MOECC. At the time of writing this report, we have not yet received a response to this request. Any relevant information received from the MOECC will be forwarded as an addendum to this report. The FOI request is included in Appendix E.

##### MOECC Brownfields Environmental Site Registry

A review of the Brownfields Environmental Site Registry database indicated that a RSC has not previously been filed on the Site or surrounding properties within 250 metres.

##### Waste Disposal Site Inventory – Ontario MOECC (1991)

The Site is not listed in the MOECC's Waste Disposal Inventory. In addition, there is no active or closed landfill sites located within 250 metres of the Site.



### MOECC Hazardous Waste Information Network (HWIN)

The Site and surrounding properties within 250 metres are not listed in the MOECC HWIN Database as generators of registered waste materials.

### City Directories

No current or historic city directories were available for the Site and surrounding properties.

### EcoLog ERIS

A records and regulatory agency database review was completed through a database search carried out by EcoLog ERIS. The EcoLog ERIS report includes a review of selected public and private database records for the Site and surrounding properties within a 250 m radius of the Site. The report includes a summary of search results in selected databases, a Site map and aerial photo, and a detailed report of database findings.

The following is a list of the database searches completed by EcoLog ERIS for this assignment.

- Commercial Fuel Oil Tanks (CFOT)
- Fuel Storage Tank (FST)
- Fuel Storage Tank – Historic (FSTH)
- Ontario Regulation 347 Waste Generator Summary (GEN)
- Private and Retail Fuel Storage Tanks (PRT)
- Retail Fuel Storage Tanks (RST)
- Scott's Manufacturing Directory (SCT)
- Ontario Spills (SPL)

The standard select report did not provide any listings for the Site or the adjacent properties that would have the potential to be an environmental liability to the Site. A copy of the EcoLog ERIS Standard Report is included in Appendix F.

## **4.3 Physical Setting Sources**

### **4.3.1 Aerial Photographs**

Aerial photographs, obtained from the University of Waterloo Geospatial Centre and Google Earth, were reviewed for the years, 1930, 1969, 1990, 2009 and 2015. The aerial photographs are graphically illustrated in Appendix C and are summarized in the table on the following page.



<i>Year</i>	<i>Observations</i>
1930	The Site appears as an undeveloped vacant land and/or agricultural field. The surrounding properties also appear to be vacant land and/or agricultural field. The properties east of the Site are not covered by the aerial photograph.
1969	No major changes observed at the Site and properties adjacently west and south. East of the Site appears to be developed with buildings. North of the Site, a property appears developed as a quarry and/or other extractive industrial activity.
1990	No major changes observed at the Site. Additional development on properties immediately east of the Site.
2009	The Site and surrounding properties appear similar to the current configuration.
2015	The Site and surrounding properties appear similar to the current configuration.

#### **4.3.2 Topography, Hydrology, Geology**

The Atlas of Canada Toporama interactive map was accessed to retrieve spatial data relevant to the Site. Map contours show the Site elevation to be at approximately 470 m and the topography to be sloping downward towards the north and east (Grand River).

According to the Ministry of Natural Resources Map 2326 entitled “Orangeville Southern Ontario Quaternary Geology,” the Site is located in a physiographic region of silt to clayey silt till of the Tavistock Till.

According to the Ministry of Natural Resources Map 2544, entitled “Bedrock Geology of Southern Ontario, Southern Sheet”, the bedrock in the area generally consists of sandstone, shale, dolostone, and siltstone of the Guelph Formation.

The localized groundwater flow direction is expected to follow the topography and flow north and east towards the Grand River.

#### **4.3.3 Fill Materials**

Fill material composition and source location are considerations in determining whether environmental concerns are present. Based on observations made at the time of the Site reconnaissance, CVD does not expect deleterious fill material to be present on the Site.

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

The nearest water body, Grand River, flows through the area to the north and east of the Site. The eastern property lines have the closest proximity to the Grand River with separations ranging from approximately 150 m to 400 m. The north end of the Site is further away with separations ranging from approximately 300 m to 1200 m.



#### **4.4 Site Operating Records**

The Phase I ESA property did not have any Site operation records for review during the Phase I ESA.

### **5.0 INTERVIEWS**

On March 29, 2016, CVD conducted a phone interview with Mr. Walter Broos of Sarah Properties Ltd. (hereinafter referred to as the "Site Representative"). Relevant information gathered from the Site Representative has been incorporated into various sections of this report (both previous and proceeding sections).

The information gathered from other individuals and/or regulatory agencies has also been incorporated into various sections of this report (both previous and proceeding sections).

### **6.0 SITE RECONNAISSANCE**

#### **6.1 General Requirements**

A visual survey of the Site was completed by CVD on March 23, 2016. The qualifications of the assessor are provided in Appendix G.

Photographs documenting the Site and surrounding properties taken on the day of the Site reconnaissance, along with written descriptions, can be found in Appendix D.

#### **6.2 Specific Observations at Phase I Property**

The Site is vacant undeveloped land. No evidence of current or historical buildings were found on-Site.

Post and wire fences separate the Site from adjacent properties to the north, west and south. The east side of the Site is adjacent to the residential community of Waldemar and is not fenced.

Access to the Site is provided through unfenced access points at the ends of Evans Ave., James St. and Henry St.

#### Underground and Aboveground Storage Tanks

Site inspections and interviews were conducted to assess the presence/absence and condition (if present) of underground storage tanks (USTs) and aboveground storage tanks (ASTs) at the Site.

The Site Representatives reported no ASTs or USTs currently exist on the Site. CVD did not find any correspondence to support the historical presence of USTs/ASTs at the Site and did not observe any evidence of USTs or ASTs during the Site reconnaissance.



The Technical Standards and Safety Authority (TSSA) were also requested to review their computer database for the Site with regard to registered USTs and ASTs containing petroleum products. The TSSA reported that there are no records for fuel storage at the Site. The TSSA's response is included in Appendix E.

#### Chemical Inventory, Storage and Handling

CVD did not observe any signs of chemical storage or handling practices that have the potential to impair the Site and none are expected. According to available information, chemicals currently and historically have not been generated or stored on-Site.

#### Solid and Liquid Waste Generation and Disposal

The Site is unoccupied vacant land with no solid or liquid waste generation/disposal.

#### Designated Substances

In Ontario, the Occupational Health and Safety Act has a list of nearly a dozen substances have been classified as "designated substances" largely in response to their harmful characteristics.

CVD did not observe any designated or hazardous substances at the Site.

### **6.3 Surrounding Properties Phase I Study Area**

Land uses currently and historically surrounding the Site are described as follows:

#### North of the Site:

The Site is bounded by Upper Grand Trailway, formerly the Toronto Grey and Bruce Railway Line, on its north side. The properties opposite to the Site along the trailway are agricultural fields and an inactive quarry. Based on available research resources, land use to the north of the Site has not changed since 1969.

#### East of the Site:

The Site is bounded by residential properties on its east side. Based on available research resources, land use to the east of the Site has historically been undeveloped and/or agricultural until it was developed with residential homes.

#### South of the Site:

The Site is bounded by agricultural land on its south side. Based on available research resources, land use to the south of the Site has historically been undeveloped and/or agricultural and has not changed since 1930.



West of the Site:

The Site is bounded by agricultural land on its east side. Based on available research resources, land use to the east of the Site has historically been undeveloped and/or agricultural and has not changed since 1930.

## 7.0 Review and Evaluation of Information

### 7.1 Current and Past Uses on the Phase I Property

The Site, at the time of this Phase 1 ESA, is undeveloped land, zoned for Community Residential use by the Township of Amaranth. Based on historical aerial photos, the Site appears to have been agricultural and/or vacant land.

### 7.2 Potential Contaminating Activities (PCAs)

Potentially contaminating activities (PCAs) are a use or activity set out in Column A of Table 2 of Schedule D within Ontario Regulation 153/04 that is occurring or has occurred in a phase one study area.

PCA	Location	Description	Evaluation
1	North adjacent, parallels the north property line	Upper Grand Trailway, formerly the Toronto Grey and Bruce Railway Line (PCA No. 46 – rail yards, tracks, and spurs)	Based on its lower elevation and down-gradient location in terms of inferred ground water flow, the former railway line is unlikely to be an environmental risk.

### 7.3 Areas of Potential Environmental Concerns (APECs)

Areas of potential environmental concern (APECs) are defined within the amended Ontario Regulation 153/04 (amended regulation) as those on, in or under a phase one property where one or more contaminants are potentially present. APECs are related to potentially contaminating activities set out and numbered in Column A of Table 2 of Schedule D in the amended regulation.

APECS were not identified on the Site or on any of the surrounding properties.





## 8.0 CONCLUSIONS

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) was retained by Mr. Walter Broos of Sarah Properties Ltd. to conduct a Phase I Environmental Site Assessment (ESA) of the property located at Parts of Lots 2 and 3 Concession 10 in Waldemar (Amaranth), Ontario. The purpose of the Phase I ESA is to evaluate the environmental conditions of the Site and adjacent properties to identify any actual or potential sources of contamination associated with current and historical land uses.

The findings of the Phase I ESA did not identify any actual or potential sources of contamination on the Site or surrounding properties. It is CVD's professional opinion that the potential for significant environmental liabilities associated with the Site under investigation is therefore low and no further investigations are required at this time. This opinion is based on the following:

- The Site does not appear to have ever been used for any land use that may produce, store, or dispose of environmentally hazardous materials.
- The neighbouring properties adjacent to the Site are not expected to pose an environmental concern for the Site. Past activities on the neighbouring properties are not expected to pose a significant environmental concern for the Site.



## 9.0 STUDY LIMITATIONS

CVD has prepared this report for the exclusive use of Sarah Properties Ltd. in evaluating the environmental conditions of the Site at the time of CVD's Site visit. CVD will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of CVD. CVD accepts no responsibility for damages, if any, by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of environmental concern, reflecting CVD's best judgment using information reasonably available at the Site at the time of CVD's Site visit. CVD has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to CVD at the time of the Site visit.

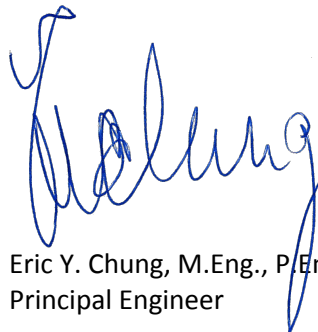
The American Society of Testing and Materials Standard of Practice notes that no environmental Site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of a standardized environmental Site assessment protocol is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the property, given reasonable limits of time and cost. This assessment was carried out using historical data and a Site walkover. Intrusive testing is not part of the scope of this assessment.

We trust that the above report is complete within our terms of reference. If there are any questions concerning this matter, please do not hesitate to contact our office.

Respectfully submitted,  
**CHUNG & VANDER DOELEN ENGINEERING LTD.**



Peter Dao, M.Sc., P.Geo.  
Environmental Scientist



Eric Y. Chung, M.Eng., P.Eng.  
Principal Engineer



## 10.0 REFERENCES

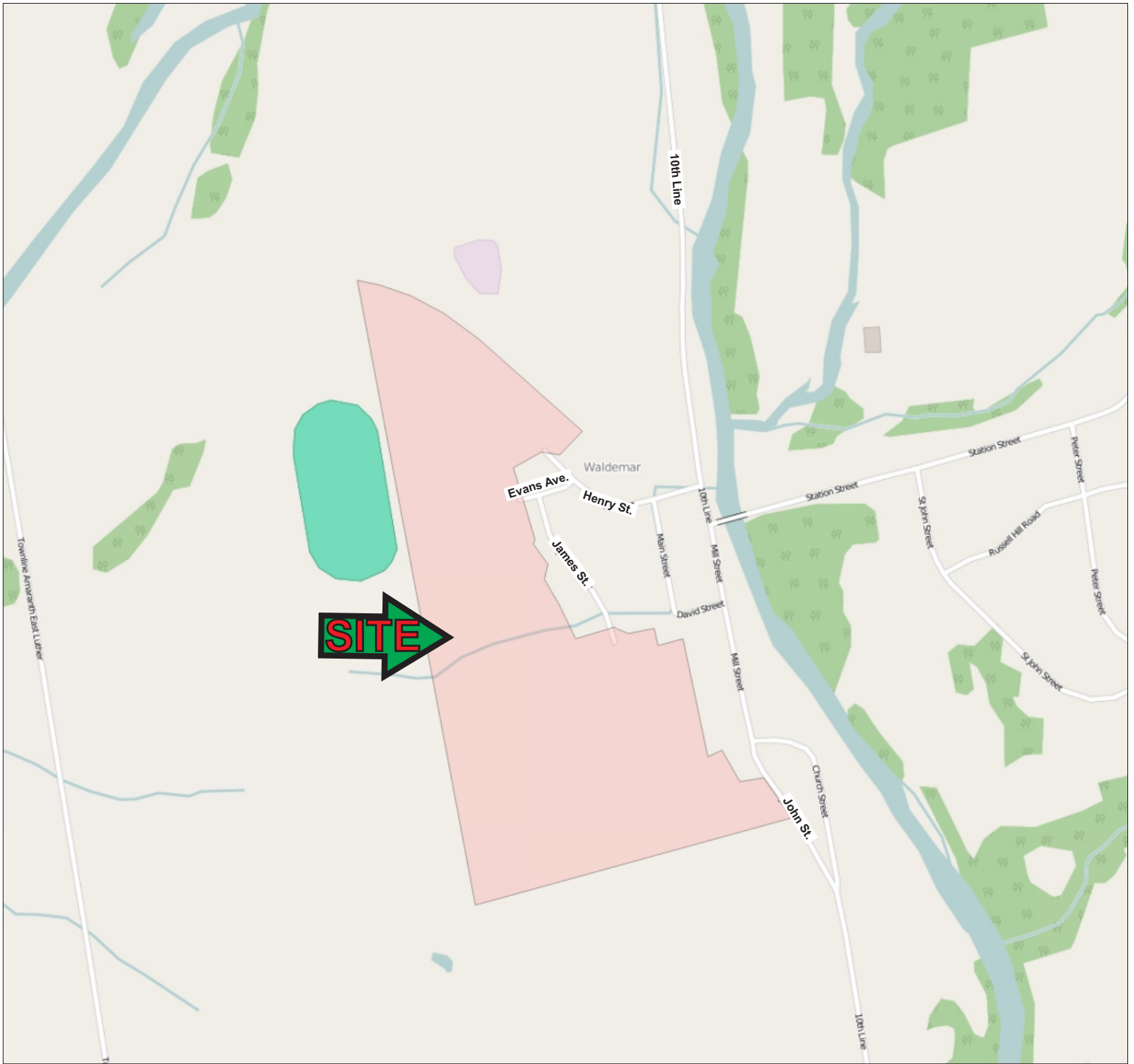
The following documents, maps, or other publications may have been used in the preparation of this report.

- Intera Technologies Ltd., "Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario," July 1988.
- Ministry of Northern Development and Mines, Map 2544, "Bedrock Geology of Southern Ontario – Southern Sheet," 1991.
- Ministry of Northern Development and Mines, Map 2508 "Quaternary Geology of Ontario, Cambridge Area," 1981.
- Ontario Ministry of the Environment, "Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario," November 1998.
- Ontario Ministry of the Environment, "Ontario Inventory of Approved PCB Storage Sites," September 1998.
- Ontario Ministry of the Environment, "Waste Disposal Site Inventory," June 1991.
- Phase I Environmental Site Assessment Canadian Standards Association (CSA) Z768-01 (R2012).
- Technical Standards and Safety Act, 2000 (S.O. 2000, Chapter 16). Retrieved from Government of Ontario e-laws website: <http://www.e-laws.gov.on.ca/>



**APPENDIX A**  
**KEY PLAN**





**Legend**



Site



**CHUNG & VANDER DOELEN  
ENGINEERING LTD.**

311 Victoria Street North  
Kitchener / Ontario / N2H 5E1  
519-742-8979

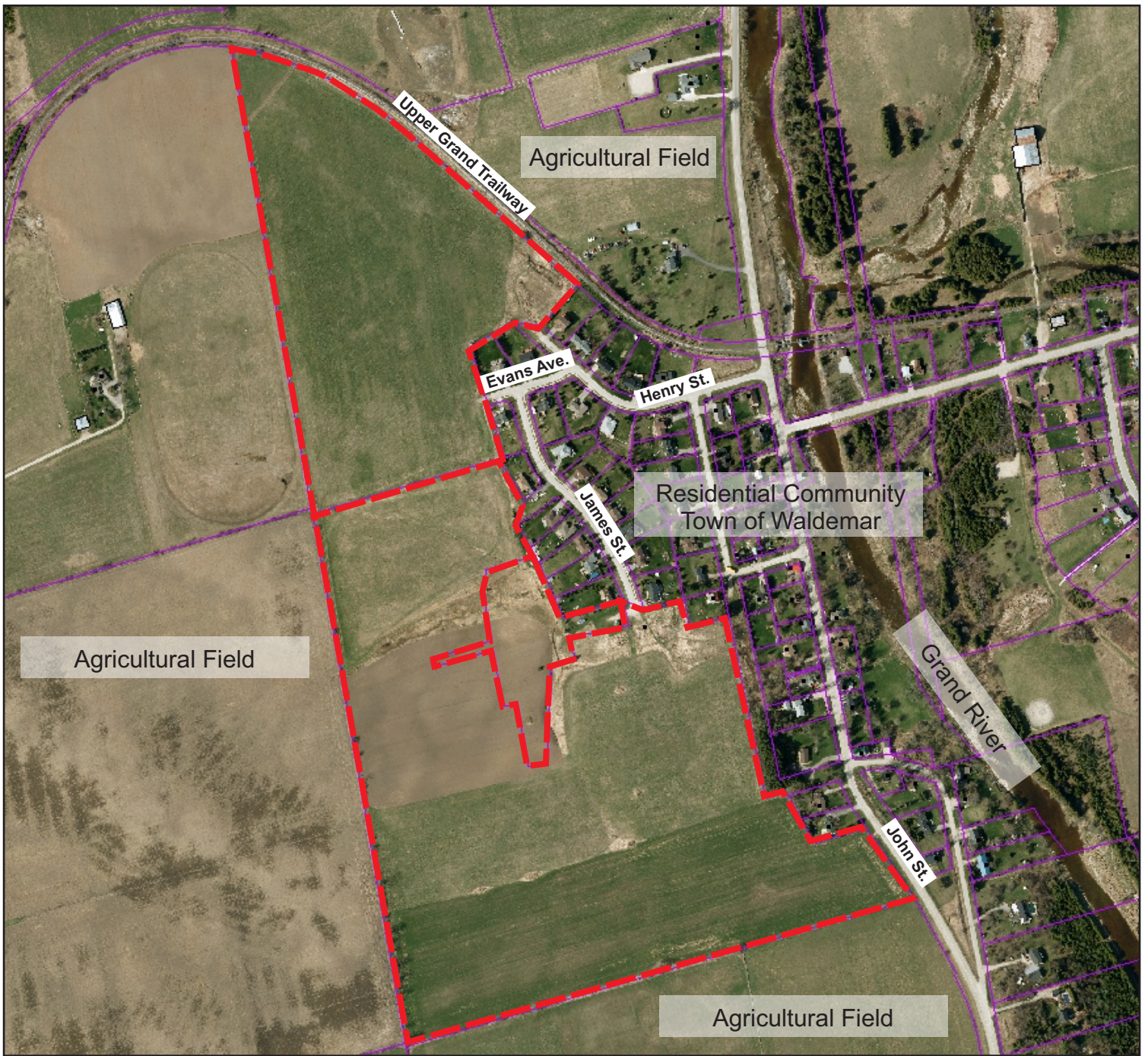


<b>KEY PLAN</b>  <b>Parts of Lots 2 and 3, Concession 10 AMARANTH, ONTARIO</b>	<b>Date:</b>	<b>Mar. 2016</b>
	<b>Scale:</b>	<b>NTS</b>
	<b>File No.:</b>	<b>E16220</b>
	<b>Appendix:</b>	<b>A</b>

**APPENDIX B**  
**SITE PLAN**







**Legend**



**SITE BOUNDARIES**



**CHUNG & VANDER DOELEN**  
ENGINEERING LTD.

311 Victoria Street North  
Kitchener / Ontario / N2H 5E1  
519-742-8979





<b>SITE PLAN</b>  Parts of Lots 2 and 3, Concession 10  AMARANTH, ONTARIO	Date:	Mar. 2016
	Scale:	NTS
	File No.:	E16220
	Appendix:	B

**APPENDIX C**  
**AERIAL PHOTOGRAPHS**









	<b>CHUNG &amp; VANDER DOELEN</b> <b>ENGINEERING LTD.</b> 311 Victoria Street North Kitchener / Ontario / N2H 5E1 519-742-8979		
	<b>AERIAL PHOTO - 1930</b>  <b>Parts of Lots 2 and 3, Concession 10</b>  <b>AMARANTH, ONTARIO</b>		
		<b>Scale:</b> NTS	
		<b>File No.:</b> E16220	
		<b>Appendix:</b> C	







	<b>CHUNG &amp; VANDER DOELEN</b> <b>ENGINEERING LTD.</b> 311 Victoria Street North Kitchener / Ontario / N2H 5E1 519-742-8979		
	<b>AERIAL PHOTO - 1969</b>  <b>Parts of Lots 2 and 3, Concession 10</b>  <b>AMARANTH, ONTARIO</b>		
		<b>Scale:</b> NTS	
		<b>File No.:</b> E16220	
		<b>Appendix:</b> C	







	<b>CHUNG &amp; VANDER DOELEN</b> <b>ENGINEERING LTD.</b> 311 Victoria Street North Kitchener / Ontario / N2H 5E1 519-742-8979		
	<b>AERIAL PHOTO - 1990</b>  <b>Parts of Lots 2 and 3, Concession 10</b>  <b>AMARANTH, ONTARIO</b>		
		<b>Scale:</b> NTS	
		<b>File No.:</b> E16220	
		<b>Appendix:</b> C	







	<b>CHUNG &amp; VANDER DOELEN</b> <b>ENGINEERING LTD.</b> 311 Victoria Street North Kitchener / Ontario / N2H 5E1 519-742-8979		
	<b>AERIAL PHOTO - 2009</b>  <b>Parts of Lots 2 and 3, Concession 10</b>  <b>AMARANTH, ONTARIO</b>	<b>Date:</b> Mar. 2016 <b>Scale:</b> NTS <b>File No.:</b> E16220 <b>Appendix:</b> C	





	<b>CHUNG &amp; VANDER DOELEN</b> <b>ENGINEERING LTD.</b> 311 Victoria Street North Kitchener / Ontario / N2H 5E1 519-742-8979		
	<b>AERIAL PHOTO - 2015</b>  <b>Parts of Lots 2 and 3, Concession 10</b>  <b>AMARANTH, ONTARIO</b>		
		<b>Scale:</b> NTS	
		<b>File No.:</b> E16220	
		<b>Appendix:</b> C	

**APPENDIX D**  
**SITE PHOTOGRAPHS**







**Photograph 1: View of the north property line (fence) of the Site from the Upper Grand Trailway.**



**Photograph 2: View of the west property line (fence) of the Site. The Site is to the left of the fence in the photo.**





**Photograph 3: View of the eastern boundary of the Site from 19 James St, Waldemar.**



**Photograph 4: View of the south property line (fence) of the site from John St. The Site is to the right of the fence.**



## **APPENDIX E**

# **CORRESPONDENCE**





## Freedom of Information Request

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

Requester Data			For Ministry Use Only	
Name, Title, Company Name and Mailing Address of Requester  Peter Dao Chung & Vander Doelen Engineering Ltd 311 Victoria Street North Kitchener, Ontario N2H 5E1  Email Address: peter.dao@cvdengineering.com			FOI Request No.	FOI Co-ordinator Review date
Telephone/Fax Nos.  Tel: 519-742-8979 Fax: 519-742-7739			Date Request Received	Fee Paid
Your Project/Reference No.  E16220	Signature of Requester  <i>Peter Dao</i>		Response Due Date	
			<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/>	

Request Parameters	
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions)  19 James St. and Lot 2 and 3, Concession 10, Township of Amaranth (Waldemar), ON	
Present Property Owner(s) and Date(s) of Ownership  Broos Properties Ltd.	
Previous Property Owner(s) and Date(s) of Ownership	
Present/Previous Tenant(s), (if applicable)	

Search Parameters	Specify Year(s) Requested
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.	
Environmental concerns (General correspondence, occurrence reports, abatement)	All
Orders	All
Spills	All
Investigations/prosecutions ▶ Owner/tenant information must be provided	All
Waste Generator number/classes	

Certificates of Approval ▶ Proponent information must be provided		
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number (s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, hydrogeological reports, etc.		
	SD	Specify Year(s) Requested
air – emissions		1986 to present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		1986 to present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		1986 to present
waste water – industrial discharge		1986 to present
waste sites – disposal, landfill sites, transfer stations, processing sites, incinerator sites		1986 to present
waste systems		
- haulers: sewage, non-hazardous & hazardous waste		
- mobile waste processing units		
- PCB destruction		
pesticides – licenses		1986 to present

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

Ministry of the Environment  
and Climate Change

Freedom of Information and  
Protection of Privacy Office

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

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

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

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



March 22, 2016

Peter Dao  
Chung & Vander Doelen Engineering Ltd.  
311 Victoria Street N  
Kitchener, ON N2H 5E1

Dear Peter Dao:

RE: ***Freedom of Information and Protection of Privacy Act Request***  
**Our File # A-2016-01730, Your Reference E16220**

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

**The search is being conducted on the following: 19 James St (part of Lot 2 and 3, Concession 10), Amaranth (Waldemar). If there is any discrepancy please contact us immediately.**

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

If you have any questions regarding this matter, please contact Craig Jackson at (416) 212-0561.

Yours truly,



Jacqueline Gallacher  
FOI Manager (A)

## Peter Dao

---

**From:** Ruchi Chohan [rchohan@tssa.org] on behalf of Public Information Services [publicinformationsservices@tssa.org]  
**Sent:** Thursday, March 24, 2016 4:45 PM  
**To:** Peter Dao (CVD)  
**Subject:** RE: Records Search - Fuel Storage Tanks

Hello Peter,

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 ([publicinformationsservices@tssa.org](mailto:publicinformationsservices@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,

Ruchi



**Public Information Services**

Facilities & Business Services

3300 Bloor Street West

Center Tower, 16th Floor

Toronto, Ontario, M8X-2X4

Tel: 1-877-682-8772 Fax: (416) 734-3568 E-mail: [publicinformationsservices@tssa.org](mailto:publicinformationsservices@tssa.org)

[www.tssa.org](http://www.tssa.org)



---

**From:** Peter Dao (CVD) [<mailto:peter.dao@cvdengineering.com>]  
**Sent:** Thursday, March 24, 2016 11:57 AM  
**To:** Public Information Services <[publicinformationsservices@tssa.org](mailto:publicinformationsservices@tssa.org)>  
**Subject:** Records Search - Fuel Storage Tanks

Good Morning,

At your earliest convenience, could you please search your records for the following property for any reference to aboveground or underground storage tanks:

- 19 James St., Waldemar (Amaranth)

Thanks,

Peter

**APPENDIX F**  
**ECOLOG ERIS REPORT**



# DATABASE REPORT



**Project Property:** *Waldemar Phase 1  
19 James St.  
Waldemar ON  
E16220*

**Project No:** *20160308180*

**Report Type:** *Standard Select Report*

**Order No:** *20160308180*

**Requested by:** *Chung & Vander Doelen Engineering Ltd.*

**Date Completed:** *March 16, 2016*

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

# Table of Contents

Table of Contents.....	1
Executive Summary.....	2
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	8
Map.....	9
Aerial.....	10
Detail Report.....	11
Unplottable Summary.....	12
Unplottable Report.....	13
Appendix: Database Descriptions.....	14
Definitions.....	24

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

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

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

**Your Liability for misuse:** Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

**No warranty of Accuracy or Liability for ERIS:** The information contained in this report has been produced by EcoLog Environmental Risk Information Services Ltd ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, EcoLog ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of EcoLog ERIS is limited to the monetary value paid for this report.

**Trademark and Copyright:** You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by EcoLog ERIS Ltd. Copyright in data used in the Service or Report(s) (the "Data") is owned by EcoLog ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of EcoLog ERIS.

# Executive Summary

## Property Information:

**Project Property:** *Waldemar Phase 1  
19 James St. Waldemar ON*

**Project No:** *E16220*

### **Coordinates:**

**Latitude:** *43.890263*  
**Longitude:** *-80.288521*  
**UTM Northing:** *4,859,930.69*  
**UTM Easting:** *557,147.26*  
**UTM Zone:** *UTM Zone 17T*

**Elevation:** *1,540 FT  
469.53 M*

## Order Information:

**Order No:** *20160308180*  
**Date Requested:** *March 9, 2016*  
**Requested by:** *Chung & Vander Doelen Engineering Ltd.*  
**Report Type:** *Standard Select Report*

## Additional Products:

**Aerial Photographs** *National Collection - Digital (PDF)*



# Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	N	-	-	-
AGR	<i>Aggregate Inventory</i>	N	-	-	-
AMIS	<i>Abandoned Mine Information System</i>	N	-	-	-
ANDR	<i>Anderson's Waste Disposal Sites</i>	N	-	-	-
AUWR	<i>Automobile Wrecking &amp; Supplies</i>	N	-	-	-
BORE	<i>Borehole</i>	N	-	-	-
CA	<i>Certificates of Approval</i>	N	-	-	-
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	N	-	-	-
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	N	-	-	-
CONV	<i>Compliance and Convictions</i>	N	-	-	-
CPU	<i>Certificates of Property Use</i>	N	-	-	-
DRL	<i>Drill Hole Database</i>	N	-	-	-
EASR	<i>Environmental Activity and Sector Registry</i>	N	-	-	-
EBR	<i>Environmental Registry</i>	N	-	-	-
ECA	<i>Environmental Compliance Approval</i>	N	-	-	-
EEM	<i>Environmental Effects Monitoring</i>	N	-	-	-
EHS	<i>ERIS Historical Searches</i>	N	-	-	-
EIIS	<i>Environmental Issues Inventory System</i>	N	-	-	-
EMHE	<i>Emergency Management Historical Event</i>	N	-	-	-
EXP	<i>List of TSSA Expired Facilities</i>	N	-	-	-
FCON	<i>Federal Convictions</i>	N	-	-	-
FCS	<i>Contaminated Sites on Federal Land</i>	N	-	-	-
FOFT	<i>Fisheries &amp; Oceans Fuel Tanks</i>	N	-	-	-
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	N	-	-	-
IAFT	<i>Indian &amp; Northern Affairs Fuel Tanks</i>	N	-	-	-
INC	<i>TSSA Incidents</i>	N	-	-	-
LIMO	<i>Landfill Inventory Management Ontario</i>	N	-	-	-
MINE	<i>Canadian Mine Locations</i>	N	-	-	-
MNR	<i>Mineral Occurrences</i>	N	-	-	-
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	N	-	-	-
NCPL	<i>Non-Compliance Reports</i>	N	-	-	-
NDFT	<i>National Defence &amp; Canadian Forces Fuel Tanks</i>	N	-	-	-

<b>Database</b>	<b>Name</b>	<b>Searched</b>	<b>Project Property</b>	<b>Within 0.25 km</b>	<b>Total</b>
NDSP	<i>National Defence &amp; Canadian Forces Spills</i>	N	-	-	-
NDWD	<i>National Defence &amp; Canadian Forces Waste Disposal Sites</i>	N	-	-	-
NEES	<i>National Environmental Emergencies System (NEES)</i>	N	-	-	-
NPCB	<i>National PCB Inventory</i>	N	-	-	-
NPRI	<i>National Pollutant Release Inventory</i>	N	-	-	-
OGW	<i>Oil and Gas Wells</i>	N	-	-	-
OOGW	<i>Ontario Oil and Gas Wells</i>	N	-	-	-
OPCB	<i>Inventory of PCB Storage Sites</i>	N	-	-	-
ORD	<i>Orders</i>	N	-	-	-
PAP	<i>Canadian Pulp and Paper</i>	N	-	-	-
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	N	-	-	-
PES	<i>Pesticide Register</i>	N	-	-	-
PINC	<i>TSSA Pipeline Incidents</i>	N	-	-	-
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	N	-	-	-
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	N	-	-	-
RSC	<i>Record of Site Condition</i>	N	-	-	-
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	N	-	-	-
TANK	<i>Anderson's Storage Tanks</i>	N	-	-	-
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	N	-	-	-
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	N	-	-	-
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	N	-	-	-
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	N	-	-	-
WWIS	<i>Water Well Information System</i>	N	-	-	-
<b>Total:</b>			0	0	0

## Executive Summary: Site Report Summary - Project Property

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

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

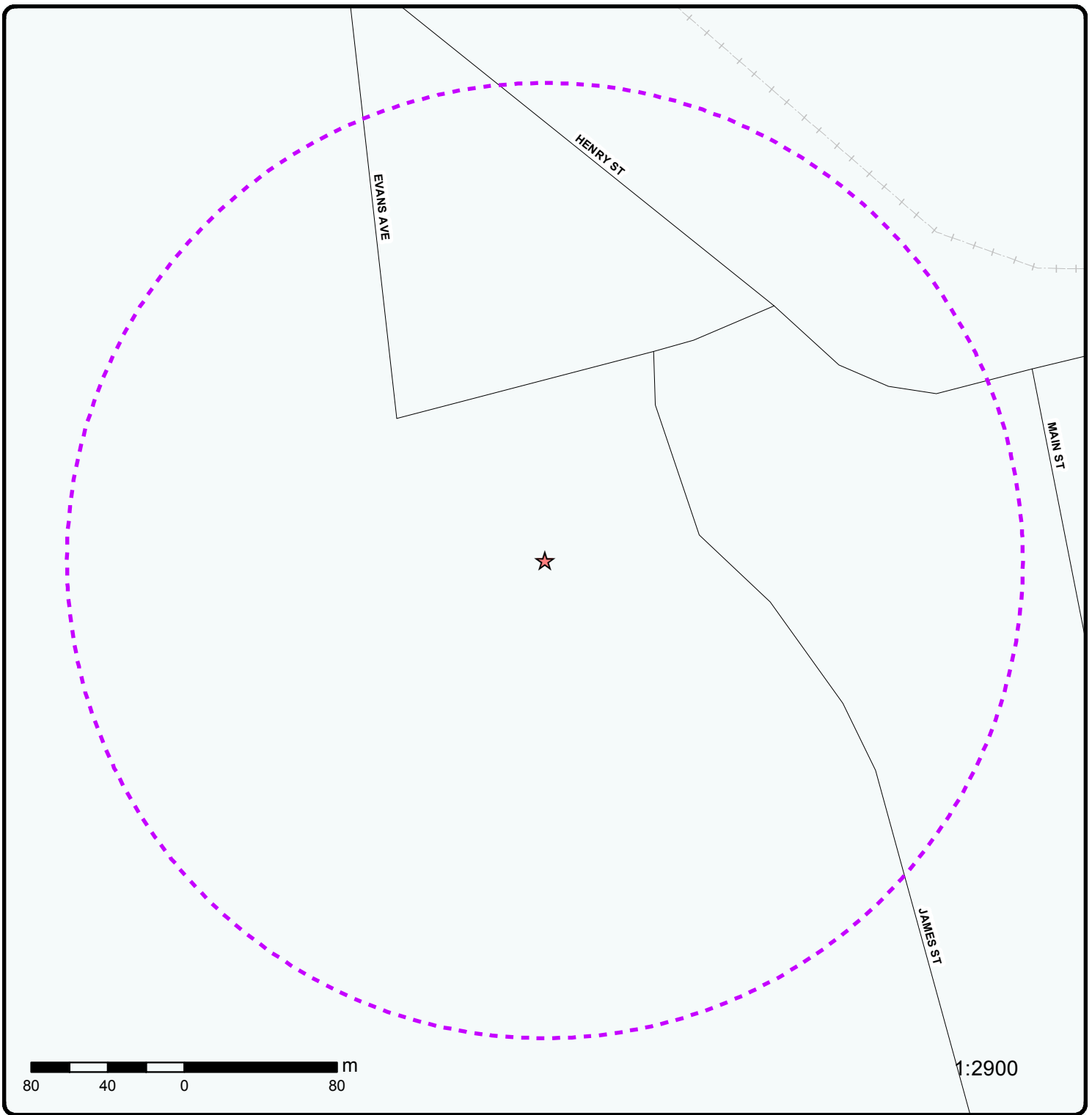
# Executive Summary: Site Report Summary - Surrounding Properties

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

No records found in the selected databases for the surrounding properties.

## Executive Summary: Summary By Data Source

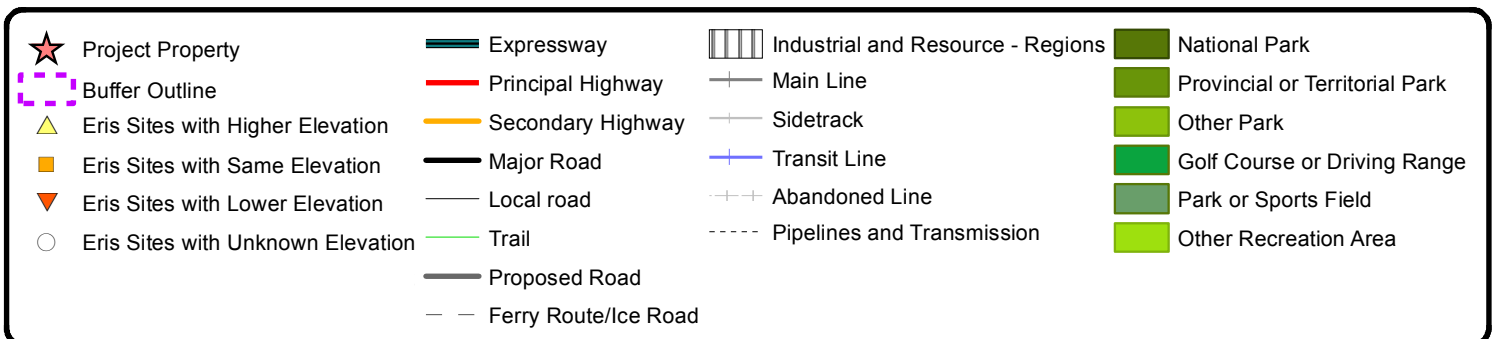
No records found in the selected databases for the project property or surrounding properties.



# Map

Order No: 20160308180

Address: 19 James St., Waldemar, ON







# Aerial

Order No: 20160308180

Address: 19 James St., Waldemar, ON

Source: ESRI World Imagery, Updated October 2014

# Detail Report

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elevation (m)</i>	<i>Site</i>	<i>DB</i>
----------------	--------------------------	------------------------------------	--------------------------	-------------	-----------

---

No records found in the selected databases for the project property or surrounding properties.



# Unplottable Summary

Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
SPL	PRIVATE OWNER	WALDEMAR, MAIN STREET STORAGE TANK/BARREL	AMARANTH TWP. ON	

# Unplottable Report

---

**Site:** PRIVATE OWNER  
WALDEMAR, MAIN STREET STORAGE TANK/BARREL AMARANTH TWP. ON

**Database:**  
SPL

**Ref NO:** 48665  
**Contaminant Code:**  
**Contaminant Name:**  
**Contaminant Quantity:**  
**Incident Cause:** OTHER CONTAINER LEAK  
**Incident Dt:** 4/5/1991  
**Incident Reason:** EQUIPMENT FAILURE  
**Incident Summary:** FURNACE OIL TANK-OIL TO GROUND-TANK TIPPED OVER.  
**MOE Reported Dt:** 4/6/1991  
**Environmental Impact:** CONFIRMED  
**Nature of Impact:** Soil contamination  
**Receiving Medium:** LAND  
**SAC Action Class:**  
**Sector Source Type:**  
**Site Municipality:** 43601

## Appendix: Database Descriptions

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

### **Abandoned Aggregate Inventory:**

Provincial [AAGR](#)

The MAAP Program maintains a database of 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 Mar 2015*

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

Provincial [AMIS](#)

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

*Government Publication Date: 1800-Oct 2014*

### **Anderson's Waste Disposal Sites:**

Private [ANDR](#)

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

*Government Publication Date: 1860s-Present*

### **Automobile Wrecking & Supplies:**

Private [AUWR](#)

This database provides an inventory of 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-Jul 2014*

**Borehole:**Provincial [BORE](#)

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

*Government Publication Date: 1875-Jul 2014*

**Certificates of Approval:**Provincial [CA](#)

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

*Government Publication Date: 1985-Oct 30, 2011\**

**Commercial Fuel Oil Tanks:**Provincial [CFOT](#)

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

*Government Publication Date: 1948-Dec 2015*

**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-Jul 2014*

**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-Jan 2016*

**Drill Hole Database:**

Provincial [DRL](#)

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

*Government Publication Date: 1886-Jun 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-Oct 2015*

**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-Jan 2016*

**Environmental Compliance Approval:**

Provincial [ECA](#)

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

*Government Publication Date: Oct 31, 2011-Jun 2015*

**Environmental Effects Monitoring:**

Federal [EEM](#)

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

*Government Publication Date: 1992-2007\**

**ERIS Historical Searches:**

Private [EHS](#)

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

*Government Publication Date: 1999-Aug 2014*

**Environmental Issues Inventory System:**

Federal EIS

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 EIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

*Government Publication Date: 1992-2001\**

**Emergency Management Historical Event:**

Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

*Government Publication Date: May 31, 2014*

**List of TSSA Expired Facilities:**

Provincial EXP

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

*Government Publication Date: Current to Nov 2015*

**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-Oct 2015*

**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-Nov 2015*

**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-May 2015*

**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 - Nov 2015*



**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 plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

*Government Publication Date: 1846-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: 1994-2013*

**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: 1993-2013*

**Oil and Gas Wells:**

Private [OGW](#)

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

*Government Publication Date: 1988-2015*

**Ontario Oil and Gas Wells:**

Provincial [OOGW](#)

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

*Government Publication Date: 1800-Aug 2015*

**Inventory of PCB Storage Sites:**

Provincial [OPCB](#)

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

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

**Orders:**

Provincial [ORD](#)

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

*Government Publication Date: 1994-Jan 2016*

**Canadian Pulp and Paper:**

Private [PAP](#)

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

*Government Publication Date: 1999, 2002, 2004, 2005, 2009*

**Parks Canada Fuel Storage Tanks:**

Federal [PCFT](#)

Canadian Heritage maintains an inventory of 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 2009-2014*

**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-Jan 2016*

**Ontario Regulation 347 Waste Receivers Summary:**

Provincial REC

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

*Government Publication Date: 1986-2013*

**Record of Site Condition:**

Provincial RSC

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

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

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

**Retail Fuel Storage Tanks:**

Private RST

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

*Government Publication Date: 1999-Jul 2014*

**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-Jun 2015*

**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: 1990-2013*

**Anderson's Storage Tanks:**

Private TANK

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

*Government Publication Date: 1915-1953\**

**Transport Canada Fuel Storage Tanks:**

Federal [TCFT](#)

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

*Government Publication Date: 1970-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 Nov 2015*

**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-Jun 2015*

**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 G**

# **QUALIFICATIONS OF ASSESSOR**



## Environmental Site Assessor

Mr. Lefebvre has over 20 years of experience in environmental assessment and project management providing site investigation, remediation services, for the industrial, commercial and municipal sectors. Mr. Lefebvre extensive experience in environmental management, environmental auditing, remedial design, project implementation, environmental clean up, and site decommissioning.

Mr. Lefebvre has specialized in the development and implementation of environmental work plans and programs for a broad range of clients in the property management, insurance, automotive, chemical, manufacturing and transportation sectors.

## Education

- Bachelor of Environmental Studies, University of Waterloo, 1986

## Professional Affiliations

- Association of Professional Geoscientists of Ontario.
- Mr. Lefebvre is currently registered as a “Qualified Person (ESA)” as described in the amended Ontario Regulation 153/04.

## Project Experience

Mr. Lefebvre has conducted over 1000 Phase I and Phase II Environmental Site Assessments (ESA's) for various commercial and industrial properties including service stations, shopping plazas, apartment buildings and industrial manufacturing facilities.

Phase I and Phase II ESA's have also been prepared to support the submission of a Record of Site Condition (RSC) to the Ministry of the Environment.

Mr. Lefebvre has conducted numerous major environmental decommissioning projects. His areas of expertise include regulatory liaison, industrial plant decommissioning, spill cleanup, reclamation, and site rehabilitation.

Mr. Lefebvre conducted *compliance audits* in various industrial settings over the past four years and has assisted in the preparation of companies for ISO 14001 registration. Mr. Lefebvre has conducted compliance audits for the automotive, packaging sector and conducted numerous pre-acquisition environmental compliance audits throughout Ontario, for the insurance, property acquisition and banking industry.

Mr. Lefebvre has supervised over 100 underground storage tank removal projects and provided direction for further remedial activities when required.