



Phase One Environmental Site Assessment

**Proposed Severance, 135 Tate's Bay Road,
Trent Lakes, Ontario**

TD Consulting Inc.

06 August 2024

Executive Summary

A Phase One Environmental Site Assessment (ESA) was completed by GHD Limited (GHD) for TD Consulting Inc., (“the Client”) for a proposed land severance from the municipal address of 135 Tate’s Bay Road in Trent Lakes, Ontario. The lands to be severed are herein referred to as “the Property” and the portion of the lot to be retained will be herein referred to as the “Retained Lot”. The Property encompasses an approximate area of 1.06 hectares (ha) while the retained lot will encompass an approximate area of 62.9 ha. It is GHD’s understanding that this Phase One ESA has been requested for site approval purposes as part of the proposed severance.

The Property is vacant / undeveloped land which was historically used for agricultural or other property uses. The Retained Lot was developed by 1966 for use as an aggregate extraction pit.

The Phase One ESA has been prepared to provide the Client with a professional opinion of the potential for areas of potential environmental concern for financing purposes.

The Phase One ESA was prepared under the supervision of a Qualified Person, as defined by the Environmental Protection Act, using Ontario Regulation (O. Reg.) 153/04 (as periodically amended), Schedule D for Phase One Environmental Site Assessments under Part XV.1 of the Act.

Based upon observations made during the site reconnaissance including the surrounding land uses and review of the historical documentation, an off-site potentially contaminating activity (PCA) was identified for the former aggregate extraction pit to the north of the Property.

It is the opinion of GHD that the offsite PCA has not resulted in an APEC on the Property. No onsite PCAs were identified and there are no APECs identified on the Property. No further work is recommended.

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1. Introduction

1.1 Phase One Property Information

A Phase One Environmental Site Assessment (ESA) was completed by GHD Limited (GHD) for TD Consulting Inc. (“the Client”) for a proposed land severance from the municipal address of 135 Tate’s Bay Road in Trent Lakes, Ontario. The lands to be severed are herein referred to as “the Property” and the portion of the lot to be retained will be herein referred to as the “Retained Lot”. The Property encompasses an approximate area of 1.06 hectares (ha) while the retained lot will encompass an approximate area of 62.9 ha. It is GHD’s understanding that this Phase One ESA has been requested for site approval purposes as part of the proposed severance.

The Property is generally treed, undeveloped and vacant land. It is GHD’s understanding that the Property is to be developed with have a potable water well and septic system. The Retained Lot was developed by 1966 for use as an aggregate extraction pit.

The location is illustrated on the **Vicinity Plan, Figure 1**. A more detailed depiction of the Property with respect to surrounding roads and watercourses is illustrated on the **Property Plan, Figure 2**. The Plot Plan is presented on **Figure 3** using a Ministry of Natural Resources and Forestry (MNRF) aerial photograph. The Phase One Conceptual Site Model (CSM) showing the Property and Phase One Study Area (surrounding lands within 250 m) and potentially contaminating activities (PCAs) is provided as **Figure 4**. A CSM provided as **Figure 5** shows no areas of potential environmental concern (APECs) at the Property. The Property, PCAs, and surrounding areas are discussed in detail in the following sections.

2. Scope of Investigation

The purpose of the Phase One ESA was to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) on the Property and within 250 m of the Property that may result in Areas of Potential Environmental Concern (APECs) on the Property. PCAs and APECs are defined in the Ontario Regulation 153/04 (O. Reg. 153/04). It is GHD’s understanding that this Phase One ESA was completed to document environmental conditions at the Property in support of a proposed lot severance. A Record of Site Condition (RSC) is not required at this time.

To achieve the aforementioned purpose, the scope of work for this ESA included the following elements:

1. Compiled and reviewed available background information relating to past land use. Sources of information included mapping, plans, reports, aerial photography and land registry records.
2. Reviewed information available through the EcoLog Environmental Risk Information Service (ERIS). An ERIS report provides information associated with the Property and surrounding lands up to 250 m from the Property through a comprehensive search of Federal, Provincial and private source data.
3. Carried out an inventory request of the Ministry of the Environment, Conservation and Parks (MECP) and Technical Standards and Safety Authority (TSSA) files to search for prior reported issues on the Property including incidents such as spills.
4. Conducted a walkover inspection to evaluate ground surface features and nearby land use.
5. Conducted an interview with the Property owner.
6. Analyzed data obtained from the investigation and presented the findings in this written report with appropriate conclusions and recommendations. The conclusions presented in this report are professional opinions based on the data described herein.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs, as defined in O. Reg. 153/04, within the Phase One ESA study area as well as any APECs associated with the Property.

This Phase One ESA report has been prepared for the use of TD Consulting Inc. and may not be relied upon by others without the written consent of GHD and TD Consulting Inc..

3. Records Review

3.1 General

A historical records review was completed of readily available records which included a request of the following:

- ERIS report;
- Freedom of Information (FOI) requests submitted to the MECP;
- TSSA database;
- Fire Insurance Plans (FIPs);
- City Directories;
- Historical aerial photography;
- Chain of Title searches based on the legal descriptions; and
- Other environmental and historical reports.

The historical records reviewed are provided in **Appendix A**.

3.1.1 Phase One Study Area Determination

The requirements for the Phase One Study Area, under O. Reg. 153/04, are to obtain and review records to evaluate potential environmental issues that may exist and to interpret any PCAs that may result in APECs at the Property and develop a Conceptual Site Model (CSM). Lands within 250 m (i.e. the Phase One Study Area), as shown on the **CSM, Figure 4**, were reviewed and evaluated. In our opinion, no PCAs were identified greater than 250 m that should be included in the CSM. The general land use of neighbouring lots at the time of the site reconnaissance were as follows (north is considered to be upgradient of the Property):

North: Former aggregate extraction pit, vacant treed land

East: Residential lots, Pirates Glen Drive

South: Residential lots, Pirates Glen Drive.

West: Tate's Bay Road, Residential lots and Alpine Lake Road.

3.1.2 First Developed Use Determination

Based on information compiled, the Property has not been developed and is vacant of structures. The first developed use of the Property is agricultural or other property use. The Retained Lot was developed by 1966 for use as an aggregate extraction pit.

3.1.3 Chain of Title

The following information was obtained from the Ontario Land Registry. The Property and Retained Lot are both described by the same Property Identification Number (PIN) and corresponding legal description, as follows:

- PIN 28365-0437 (LT) – PT LOT 19 CON 14 HARVEY AS IN R339362 EXCEPT PTS 1 TO 9 45R6981 & PT 1 45R16362; MUNICIPALITY OF TRENT LAKES – Owned by 1154853 Ontario Inc. since 2017.

Chain of title information is provided in the following table:

Table 1 Chain of Title – PIN# 28365-0437 (LT)

Owner	Years of Ownership
1154853 Ontario Inc.	2017 – Present
Bedros Avedian & Eugenio Garritano	2013 – 2017
Thomas McPherson	1978 – 2013
Buffalo Bay Limited	1977 – 1978
Tate's Bay Development Limited	1972 – 1977
Samuel Tate	1914 – 1972
Wesley Tate	1909 – 1914
William Tate	1876 – 1909
John Tate	1870 – 1876
A. H. Campbell & G. Hughson	1864 – 1870
Allan Filmons	1854 – 1864
Claude Hamilton	1836 – 1854
Peter Wartman	1836
The Crown	Prior to 1836

Names and dates are interpreted from available Land Title Information and should not be misconstrued as a legal opinion.

3.1.4 Zoning

According to information available from the Municipality of Trent Lakes Zoning By-Law 2014-070, the Property is zoned as Rural (RU) Zone. Surrounding lands to the north, west and east are zoned as various RU zones and properties to the south are zoned as Rural Residential (RR). The zoning should be verified with the Municipality of Trent Lakes.

3.1.5 City Directories

A search for available City Directories was completed by GHD for the Property and surrounding municipal addresses. There were no available city directories for the Property or surrounding area.

3.1.6 Environmental Reports

There were no environmental reports relating to the Property available for review.

3.2 Environmental Source Information

Inquiries were made to obtain a number of documents regarding environmental information including information provided by maps, regulatory agencies (MECP, TSSA, etc.), local agencies (municipal data, local library etc.) and environmental search information on file. The review of these documents is discussed in the following subsections.

3.2.1 Mapping

Mapping and figures are presented within the Figures of this report. The location is presented on the National Topographic System Mapping from Centre for Topographic Information, Natural Resources Canada Map 31 D/09, **Vicinity Plan, Figure 1**. The location with respect to adjacent roadways and surrounding land uses is presented on the Ministry of Natural Resources and Forestry (MNRF) map and is shown on the **Property Plan, Figure 2**. The **Plot Plan, Figure 3** illustrates the Property and surrounding area using an aerial photograph.

The surrounding area primarily supports residential property uses, vacant / undeveloped lands and a former aggregate extraction pit. The **Phase One CSM – Study Area, Figure 4** illustrates the Phase One Study Area (lands within 250 m) and identifies any PCAs in this general area. The Phase One CSM – Property is presented as **Figure 5**.

3.2.2 Ontario Ministry of Environment, Conservation and Parks

A request under the Freedom of Information and Protection of Privacy Act (FOIPPA) was made to the MECP regarding potential environmental concerns. A response letter has not been received at the time of writing this report. Any pertinent information related to the request will be forwarded upon receipt.

3.2.3 Technical Standards and Safety Authority

A search request was made to the TSSA regarding potential environmental concerns. A response letter has not been received at the time of writing this report. Any pertinent information related to the request will be forwarded upon receipt.

3.2.4 Fire Insurance Plans

GHD completed a request for available Fire Insurance Plans (FIPs) showing the Property and surrounding area. No such records were available for review.

3.2.5 EcoLog Environmental Risk Information System

Ecolog ERIS Ltd. was contacted to request an ERIS report for the Property and Phase One Study Area. The ERIS report is based on a number of databases including, but not limited to, the National PCB Inventory, National Pollutant Release Inventory, Occurrence Reporting Information System, Retail Fuel Storage Tanks, Private Fuel Storage Tanks, Waste Disposal Sites Inventory and Certificates of Approval. The ERIS report is included in **Appendix A**. The ERIS report did not indicate any records for the Property and documented one (1) record within the Phase One Study Area.

The one (1) record obtained from within the Phase One Study Area was from the Water Well Information System (WWIS) database. The WWIS record identified a domestic water supply well to the northwest of the Property installed in 2006. The well record indicates that the soil generally consisted of clay with varying amounts of sand. Granite bedrock was encountered at an approximate depth of 7.9 metres below ground surface.

Based on the ERIS report, no PCAs are identified for the Property or within the Phase One Study Area.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Digital aerial photographs were obtained and reviewed from the National Air Photo Library for the years of 1951, 1966, 1976, 1981, 1995, 2008 and 2022. The aerial photographs are included in **Appendix B**.

Based on the 1951 aerial photograph, the Property and surrounding area are utilized for agricultural purposes or otherwise were vacant / undeveloped.

The 1966 aerial photograph appears to show the Retained Lot has been stripped. The Property appears to remain undeveloped. Some residential development is observed to the south of the Property along Pigeon Lake. No significant changes to the Property or surrounding area are noted in the 1966 aerial photograph.

No significant changes to the Property are noted in the 1976 aerial photograph. By 1976, two (2) residential subdivisions on either side of Tate's Bay Road have been developed.

By 1981, an access road is visible within the Retained Lands. No changes to the Property are observed. No significant changes to the surrounding area are noted in the 1981 aerial photograph.

No significant changes were observed in the 1995 or 2008 aerial photographs for the Property or surrounding area.

The 2022 aerial photograph shows the Property was in the same general configuration as was observed during the site reconnaissance in 2024 (i.e. undeveloped / vacant). The Retained Lands appear to be stripped of topsoil with a clearing present within the treed area. No structures are observed on the Property or Retained Lands.

Based on the aerial photographs, no PCAs are identified.

3.3.2 Topography, Hydrogeology, & Geology

Topography: The topography in the area generally slopes towards the south towards Pigeon Lake.

Hydrogeology: Based on local topographic relief, it is inferred that groundwater flow direction is toward Pigeon Lake.

Hydrology: Surface water will flow in accordance with local topography towards low-lying areas of the property or to drainage ditches along Tate's Bay Road. Stormwater is expected to eventually discharge to Pigeon Lake.

Geology: The Property is situated within the physiographic region known as the Dummer Moraines (Chapman and Putnam, 1984). The Dummer Moraines region is part of an area of rough, stony land bordering the Canadian Shield from the Kawartha Lakes eastward. Subsurface soil in this area is expected to be comprised of glacial till and bedrock to primarily composed of sedimentary limestone mostly of the Bobcaygeon and Gull River formations but also including some of the overlying Lindsay and Verulam Formations.

3.3.3 Fill Materials

Based on review of aerial photographs and interviews with representatives familiar with the conditions of the Property, there is fill material at the Property.

3.3.4 Water Bodies and Areas of Natural Significance

Pigeon Lake is located approximately 320 m south of the Property. Several small unidentified wetlands and swamps surround the Property and Retained Lands. No water bodies or areas of natural significance are identified on the Property itself.

3.3.5 Well Records

The rural properties surrounding the Property utilize groundwater wells for water supply. Available well records with the Phase One Study Area indicated a sandy clay overburden underlain by shale and then granite bedrock which was encountered at an average depth of 8.0 m. Groundwater was encountered within the bedrock at an average depth of 22 m. No drinking water wells or monitoring wells were observed on the Property. If water wells or monitoring wells are encountered and are required to be decommissioned, they should be abandoned in accordance with Ontario Regulation 903.

3.4 Site Operations Records

The following records were considered for the Property:

1. *Regulatory permits and records related to areas of potential environmental concern:* Not applicable. There are no APECs.
2. *Material safety data sheets (MSDS):* MSDS are not applicable for the undeveloped Property.
3. *Underground utility drawings:* Not applicable. There are no underground utilities on the Property.
4. *Inventories of chemicals, chemical usage and chemical storage areas:* Not applicable.
5. *Inventory of above ground storage tanks (ASTs) and underground storage tanks (USTs):* There are no USTs or ASTs on the Property.
6. *Environmental monitoring data, including data created in response to an order or request of the Ministry:* Not Applicable.
7. *Waste management records, including current and historical waste storage locations and waste generator and waste receiver information maintained pursuant to Regulation 347 of the Revised Regulations of Ontario, 1990 (General – Waste Management) made under the Act, or its predecessors:* The Property is not listed as a waste generator in the ERIS report.
8. *Process, production and maintenance documents related to areas of potential environmental concern:* Not applicable.
9. *Records of spills and records of discharges of contaminants, including records of spills and records of discharges of contaminants of which notice is required to be given to the Ministry under the Act and records of such spills and discharges required to be kept pursuant to Ontario Regulation 675/98 (Classification and Exemption of Spills and Reporting of Discharges) made under the Act:* There were no spill records documented for the Property.
10. *Emergency response and contingency plans including spill prevention and contingency plans prepared pursuant to section 91.1 of the Act and Ontario Regulation 224/07 (Spill Prevention and Contingency Plans) made under the Act:* Site specific emergency response procedures were not reviewed. There have been no spills documented at the Property within the records reviewed.
11. *Environmental audit reports:* Not applicable.
12. *Site plan of facility showing areas of production and manufacturing:* Not applicable. No production or manufacturing was identified at the Property.

4. Interview

GHD discussed the Property with the current owner, Nick DeFlorio who has been familiar with the Property for approximately six (6) years. Mr. DeFlorio identified that the Retained Lot was formerly used for aggregate extraction purposes; however, has not been active since 2018. There are currently no wells on the Property. Mr. DeFlorio identified that no fill materials have been imported to the Property nor have there been any spills on the Property. He was not aware of any potential environmental concerns associated with the Property.

5. Site Reconnaissance

5.1 General Requirements

In accordance with the Regulation, a site reconnaissance was completed of the Property. Adjacent and surrounding sites were also observed from public access ways. The site reconnaissance was conducted on July 24, 2024, by GHD. Photographs are provided in **Appendix C** and document the Property and surrounding area. The assessor qualifications are provided in **Appendix D**.

5.2 Specific Observations at the Phase One Property

The following section provides a summary of the site observations made by GHD. The Property is of rectangular shape and is bordered by Tate's Bay Road, a former aggregate extraction pit (the Retained Lot) and a residential development. Topography in the area was observed to slope to the south towards Pigeon Lake.

The Property is generally described as forested lands which are undeveloped and vacant of any structures. No monitoring or potable water wells were observed on the Property or within the Phase One Study Area from public access ways.

The larger parcel (i.e. Retained Lot), historically used for aggregate extraction, was observed to the north. The Retained Lot was observed to be partially cleared with some storage containers present on the site. The Majority of the Retained Lot is treed.

Based on the site reconnaissance, no new PCAs are identified.

5.3 Enhanced Investigation Property

A Property is considered to be an Enhanced Investigation if the Property is used, or has ever been used, in whole or in part for an industrial use or for any of the following commercial uses: (i) as a garage; (ii) as a bulk liquid dispensing facility, including a gasoline outlet; or (iii) for the operation of dry-cleaning equipment. Based on the historical information obtained for the Phase One ESA, this Property is not considered to be an enhanced investigation property.

5.4 Written Description of Investigation

The site reconnaissance included an inspection to confirm the current conditions and identify any current land uses which may have or may cause actual and / or potential environmental impacts. Adjoining and neighbouring sites were observed from public access ways.

6. Review and Evaluation of Information

6.1 Current and Past Uses

Based upon the information obtained through the records review and the site reconnaissance, the Property has historically been undeveloped and vacant. The property use will be identified as agricultural or other property uses. In accordance with the Regulation, a table of current and past uses of the Property is required. Based on the information provided and reviewed, the following table is presented:

Table 2 Current and Past Uses

Year	Name of Owner	Description of Property Use	Property Use ¹	Other Observations from Aerial Photos, FIPs, etc.
2017 – Present	1154853 Ontario Inc.	Vacant, undeveloped land adjacent to a former aggregate extraction pit.	Agricultural or other property use	Land registry confirmed current owner. Site reconnaissance confirmed the Property layout and surrounding land use. Air photo from 2022 confirmed Property layout. The former aggregate extraction pit is considered as a PCA.
1972 – 2017	Various companies and private land owners (refer to Table 1)	Vacant, undeveloped land adjacent to aggregate extraction pit.	Agricultural or other property use	Land registry confirmed the former owners. Air photos from 1976, 1981, 1995, and 2008 confirmed the Property use and adjacent extraction pit use. The former aggregate extraction pit is considered as a PCA.
1966 – 1972	Samuel Tate	Vacant, undeveloped land adjacent to aggregate extraction pit developed by 1966.	Agricultural or other property use	Land registry confirmed the former owner. Air photo from 1966 confirmed the Property use with first development of the adjacent aggregate extraction pit observed. The former aggregate extraction pit is considered as a PCA.
Prior to 1966	Samuel Tate and various private land owners (refer to Table 1)	Vacant, undeveloped land.	Agricultural or other property use	Land registry confirmed the former owners. Air photo from 1951 confirm the Property as part of a larger agricultural parcel. No PCAs are identified.
<p>Notes: Dates and uses are estimated based on information obtained and reviewed. (1) – the following types of property uses were considered: Agriculture or other; Commercial; Community; Industrial; Institutional; Parkland; and, Residential use.</p>				

6.2 Potentially Contaminating Activities

The MECP provides a list of PCAs in Schedule D of O. Reg. 153 (as periodically amended). There were no PCAs identified within the MECP list for the Property or within the Phase One Study Area. The following PCA identified on the adjacent lands to the Property is based upon the adjacent lands used for industrial purposes as an aggregate extraction pit. The PCA is illustrated on the **CSM Study Area, Figure 4** and identified as follows:

1. Adjacent Industrial Use – Aggregate Extraction. This PCA is identified for the former aggregate extraction activities that took place on the Retained Lot to the north of the Property. Under O.Reg. 153/04, industrial use is not considered to require a Phase Two ESA investigation when the use is for quarrying to excavate consolidated or unconsolidated aggregates¹. Based on this exemption and that there was no aggregate extraction within the Property itself, it is GHD’s opinion that a Phase Two ESA is not required at this time.

6.3 Areas of Potential Environmental Concern

It is GHD’s opinion that the PCA identified has not resulted in an APEC within the Property.

6.4 Phase One Conceptual Site Model

The Phase One Conceptual Site Models are provided as **Figures 4 and 5** within the Figures section. The CSM provides a basic overview, approximate locations of corridors, basic geological and hydrogeological information and any other pertinent data that may affect the Phase One ESA of Schedule D of the Regulation. The CSM is required to contain figures, narrative descriptions and assessments as per Subsection 16(7) of Table 1 of Schedule D (Sub-Heading (iv) in Report Section 7 of the Regulation). The following table and narrative are provided in accordance with O. Reg. 153 (as amended).

Table 3 Phase One Conceptual Site Model

Provide one or more figures of the Phase One Study area that,	Show any existing buildings and structures	Not applicable. There are no structures or buildings on the Property.
	Identify and locate water bodies located in whole or in part on the Phase One Study Area	Pigeon Lake is present to the south of the Property within the Phase One Study Area as is shown on the CSM Property, Figure 5 .
	Identify and locate any areas of natural significance located in or in part on the Phase One Study Area	Several small unidentified wetlands and swamps surround the Property and Retained Lands.
	Locate any drinking water wells at the Phase One Property	There were no drinking water wells observed on the Property during the site reconnaissance.
	Show roads, including names within the Phase One Study Area	Roads with names are provided on Figure 2
	Show uses of properties adjacent to the Phase One Property	Adjacent site uses are shown on the Plot Plan, Figure 3 . The surrounding area is generally residential use, with a former aggregate extraction pit present to the north.
	Identify and locate where any potentially contaminating activity has occurred, and show tanks in such areas, and	A PCA was identified for the off-site operations of an aggregate extraction pit. It is GHD’s opinion that the PCA identified has not resulted in an APEC at the Property.
	Identify and locate any APECs	Not applicable. No APECs are identified for the Property as is illustrated on the CSM – Property, Figure 5 .

¹ Ontario Regulation 153/04 (as amended). Part VIII, Section 31 (3) (a)

Provide a description and assessment of,	Any areas where PCA on or potentially affecting the Phase One Property has occurred	Not applicable. The PCA identified has not, in our opinion, resulted in an APEC on the Property.
	Any contaminants of potential concern	Not applicable. There are no contaminants of concern, as there are no APECs identified.
	The potential for underground utilities, if any present, to affect distribution and transport	The potential for distribution and transport related to underground utilities is not being considered as there are no identified APECs.
	Available regional or site specific geological and hydrogeological information, and	The Property is situated within the physiographic region known as the Dummer Moraines (Chapman and Putnam, 1984). The Dummer Moraines region is part of an area of rough stony land bordering the Canadian Shield from the Kawartha Lakes and eastward. Subsurface soil in this area is expected to be comprised of glacial till with shallow bedrock composed of limestone.
	How any uncertainty or absence of information obtained in each of the components of the Phase One ESA could affect the validity of the model.	Based on the information reviewed as part of the Phase One investigation, it is GHD's opinion that the CSM is valid.

Based on the records review, interview and site reconnaissance carried out as part of this Phase One ESA, a PCA was identified. However, it is GHD's opinion that the PCA has not resulted in an APEC at the Property. No further environmental investigation, in the form of a Phase Two ESA, is required at this time.

7. Conclusions and Recommendations

7.1 Phase Two Environmental Site Assessment Required?

The Phase One ESA represents a "snapshot" in time. GHD cannot guarantee the reliability of information provided by others. However, whenever possible, verification of authenticity was attempted. In conclusion, there are no identified PCAs or APECs on the Property and in our opinion a Phase Two ESA is not required.

7.2 Phase One Environmental Site Assessment Alone

The Phase One ESA indicates that no APECs were identified. A Phase Two ESA is not required and no further work is recommended at this time.

7.3 Signatures

The following signatures are provided of GHD staff that prepared and conducted the Phase One ESA. Mr. Wesley Moore, a Qualified Person within the meaning of the Environmental Protection Act and associated Regulation 153/04, has provided his opinion based on the information provided in this report.

Following the References section of this report is the Statement of Limitations. These limitations are an integral part of this report.

Should questions arise regarding any aspect of our report, please contact the undersigned or our office.

Sincerely,



Wesley Moore, P.Eng., QP_{ESA}
Project Manager



Robert Neck, P.Geo. (Limited)
Senior Geoscientist, Project Director

8. References

- Canadian Standards Association (CSA) Z768-01, "Phase I Environmental Site Assessment", reaffirmed 2012.
- Chapman and Putnam, 1966. The Physiography of Southern Ontario, 2nd Edition. University of Toronto Press.
- Chapman and Putnam, 1984. The Physiography of Southern Ontario, 3rd Edition. Ministry of Natural Resources.
- Environmental Protection Act, R.S.O. 1990, and associated regulations.
- Occupational Health and Safety Act, R.S.O. 1990, and associated regulations.
- Ontario Ministry of the Environment, 2011. Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act (Environmental Protection Act 153/04, as amended).

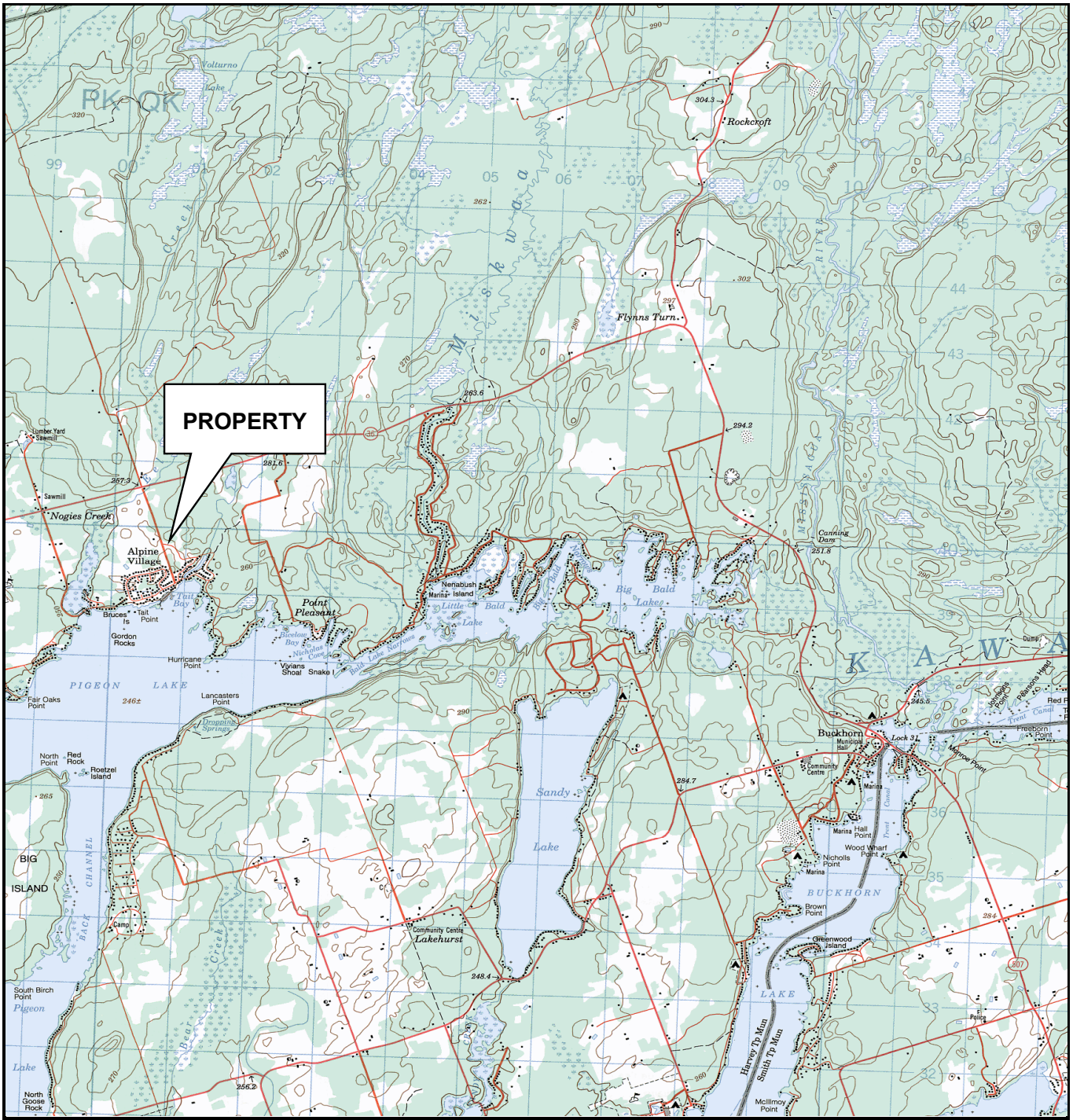
9. Statement of Limitations

This report is intended solely for TD Consulting Inc., in assessing the environmental concerns of lands identified as 135 Tate's Bay Road in Trent Lakes, Ontario and is prohibited for use by others without GHD's prior written consent. This report is considered GHD's professional work product and shall remain the sole property of GHD. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to GHD. Client shall defend, indemnify and hold GHD harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The conclusions and recommendations made in this report are in accordance with our present understanding of the project, the current site use, surface and subsurface conditions, and are based on available information, a site reconnaissance on the date set out in the report, records review and interviews (as applicable) with appropriate people and the work scope approved by the Client and described in the report and should not be construed as a legal opinion. Therefore, our liability is limited to interpreting accurately the information made available to us and assessing the property information investigated during this Phase One ESA. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of environmental engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

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

Figures



Base map compiled from Energy, Mines and Resources Canada Map 31 D/09 published 1994. Information current as of 1989.

Scale:
 1:50000
 Coordinate System
 NAD 1983 UTM
 Zone 17

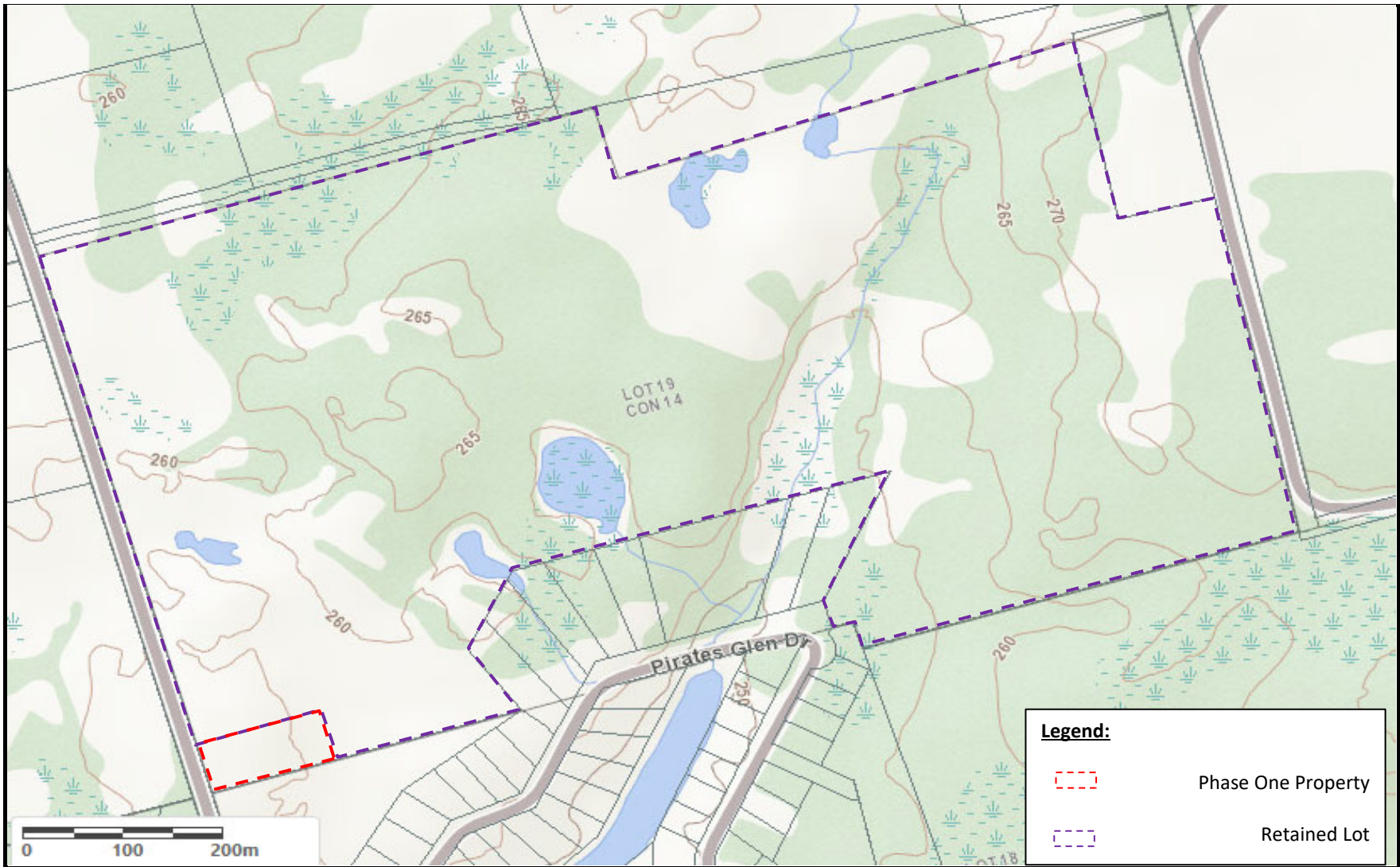


TD Consulting Inc.
 135 Tate's Bay Road, Trent Lakes, ON
 Phase One Environmental Site Assessment

12646156-01
 August, 2024

Vicinity Plan

FIGURE 1



Source: Ministry of Natural Resources and Forestry (MNRF)

Scale:
 Refer to Scale Bar
 Coordinate System:
 NAD 1983 UTM Zone 17



TD Consulting Inc.
 135 Tate's Bay Road, Trent Lakes, ON
 Phase One Environmental Site Assessment

12646156-01
 August, 2024

Property Plan

FIGURE 2



Source: Ministry of Natural Resources and Forestry (MNRF)

Scale:
 Refer to Scale Bar
 Coordinate System:
 NAD 1983 UTM Zone 17



TD Consulting Inc.
 135 Tate's Bay Road, Trent Lakes, ON
 Phase One Environmental Site Assessment

12646156-01
 August, 2024

Plot Plan

FIGURE 3



Source: Ministry of Natural Resources and Forestry (MNRF)

Scale:
Refer to Scale Bar
Coordinate System:
NAD 1983 UTM Zone 17



TD Consulting Inc.
135 Tate's Bay Road, Trent Lakes, ON
Phase One Environmental Site Assessment

12646156-01
August, 2024

Phase One CSM - Study Area

FIGURE 4



Source: Ministry of Natural Resources and Forestry (MNRF)

Scale:
 Refer to Scale Bar
 Coordinate System:
 NAD 1983 UTM Zone 17



TD Consulting Inc.
 135 Tate's Bay Road, Trent Lakes, ON
 Phase One Environmental Site Assessment

12646156-01
 August, 2024

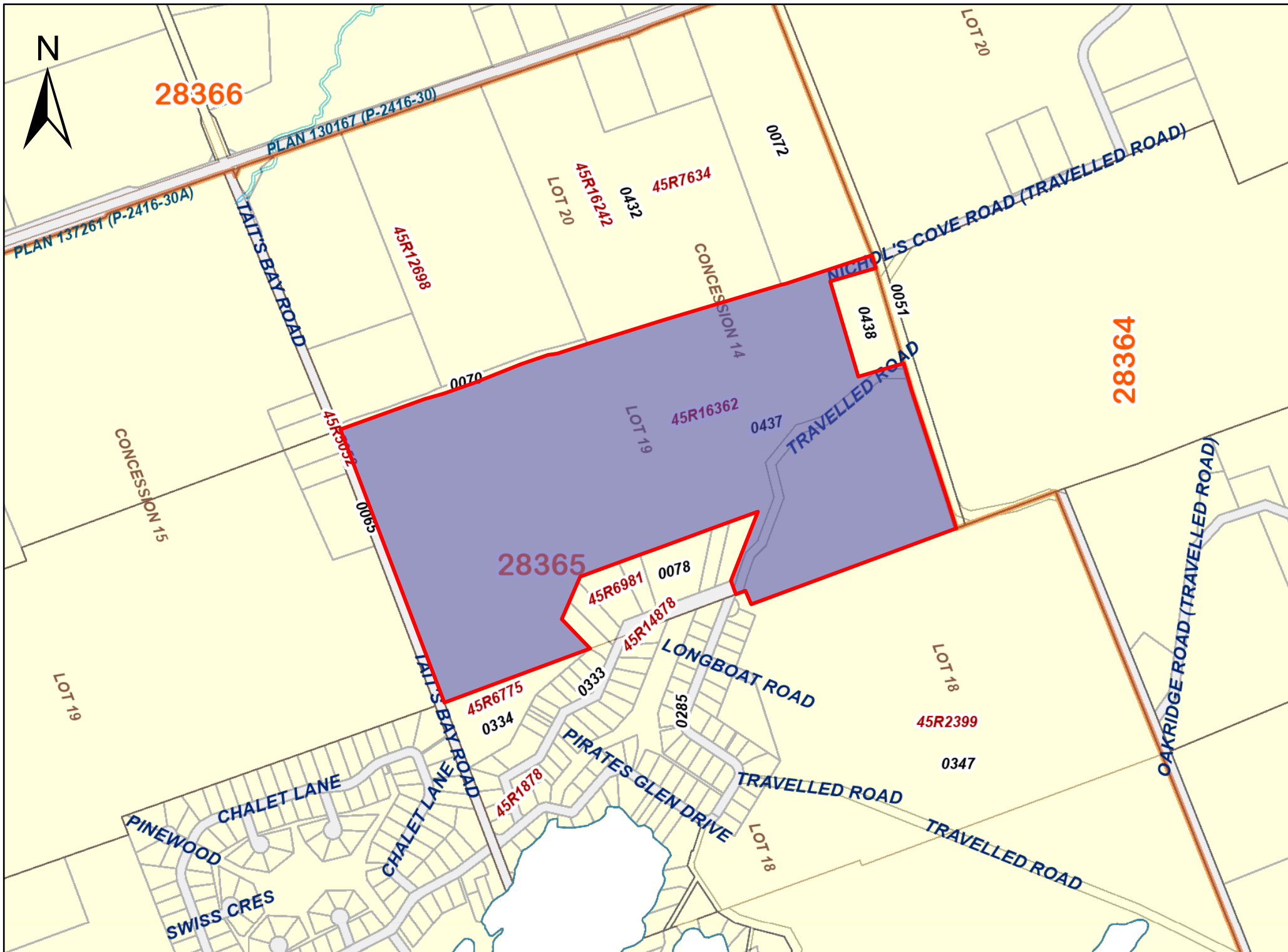
Phase One CSM - Property

FIGURE 5

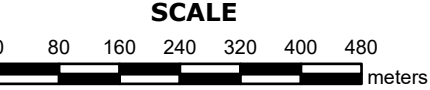
Appendices

Appendix A

Records



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FOR WESLEY



PROPERTY INDEX MAP
PETERBOROUGH(No. 45)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED





DATABASE REPORT

Project Property: *Environmental Site Assessment, 135 Tate's Bay Road
135 Tate's Bay Road
Trent Lakes ON K0M 1A0*

Project No: *12546156-01*

Report Type: *Standard Report*

Order No: *24071700518*

Requested by: *GHD Limited*

Date Completed: *July 22, 2024*

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Executive Summary

Property Information:

Project Property: *Environmental Site Assessment, 135 Tate's Bay Road
135 Tate's Bay Road Trent Lakes ON K0M 1A0*

Project No: 12546156-01

Coordinates:

Latitude: 44.5833946
Longitude: -78.4723636
UTM Northing: 4,939,780.37
UTM Easting: 700,655.80
UTM Zone: 17T

Elevation: 852 FT
259.84 M

Order Information:

Order No: 24071700518
Date Requested: July 17, 2024
Requested by: GHD Limited
Report Type: Standard Report

Historical/Products:

Aerial Photographs *Aerials - National Collection*
ERIS Xplorer [ERIS Xplorer](#)

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>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	0	0
CA	<i>Certificates of Approval</i>	Y	0	0	0
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
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
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPR2	<i>National Pollutant Release Inventory 1993-2020</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory - Historic</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PFCH	<i>NPRI Reporters - PFAS Substances</i>	Y	0	0	0
PFHA	<i>Potential PFAS Handlers from NPRI</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
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>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	1	1

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
		<hr/>			
		<i>Total:</i>	0	1	1

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

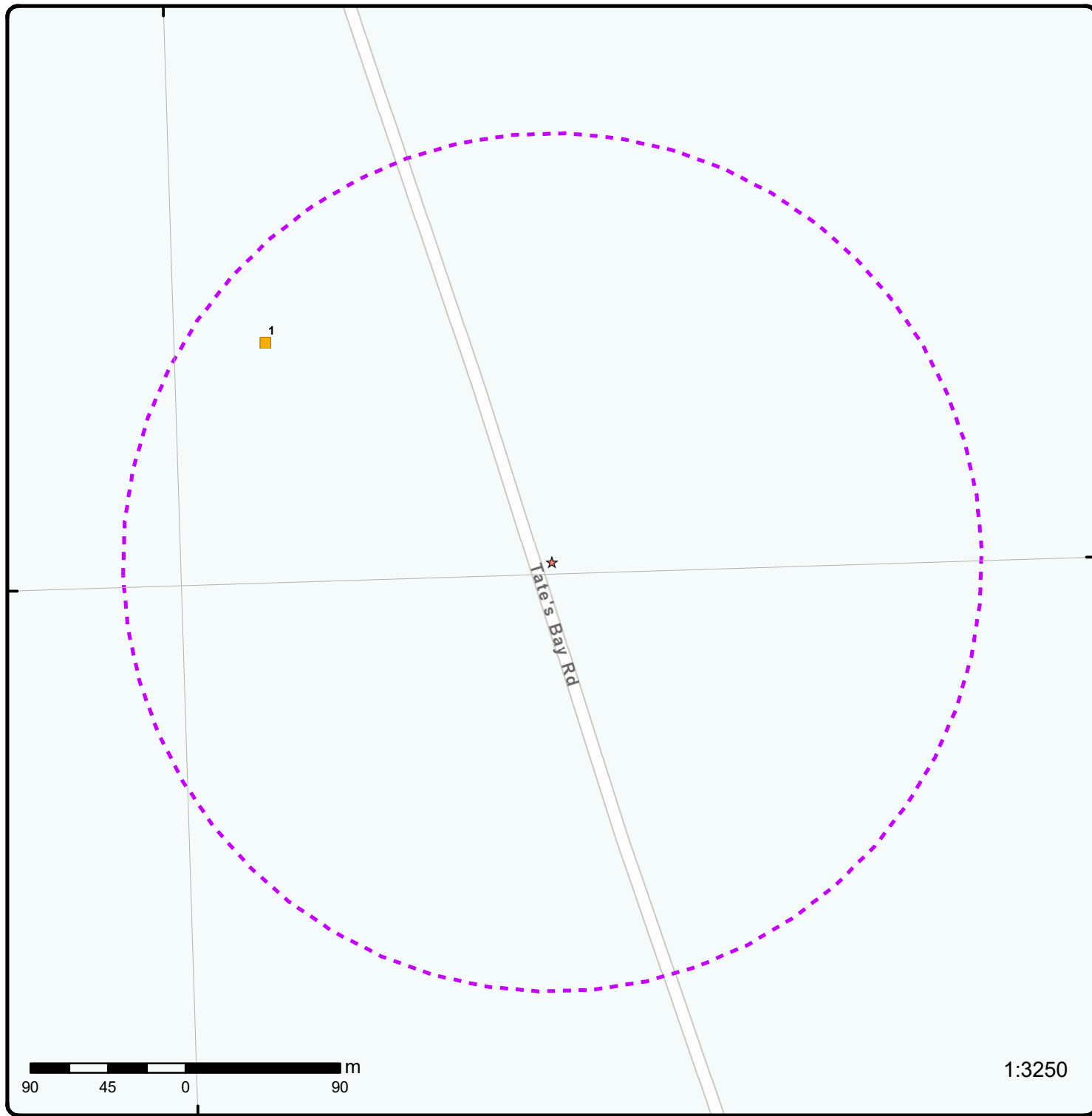
<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
1	WWIS		TAIT BAY RD lot 19 con 15 HARVEY ON <i>Well ID:</i> 7042637	WNW/210.0	0.00	13

Executive Summary: Summary By Data Source

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 1 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	TAIT BAY RD lot 19 con 15 HARVEY ON <i>Well ID:</i> 7042637	WNW	210.03	1



Map: 0.25 Kilometer Radius

Order Number: 24071700518

Address: 135 Tate's Bay Road, Trent Lakes, ON

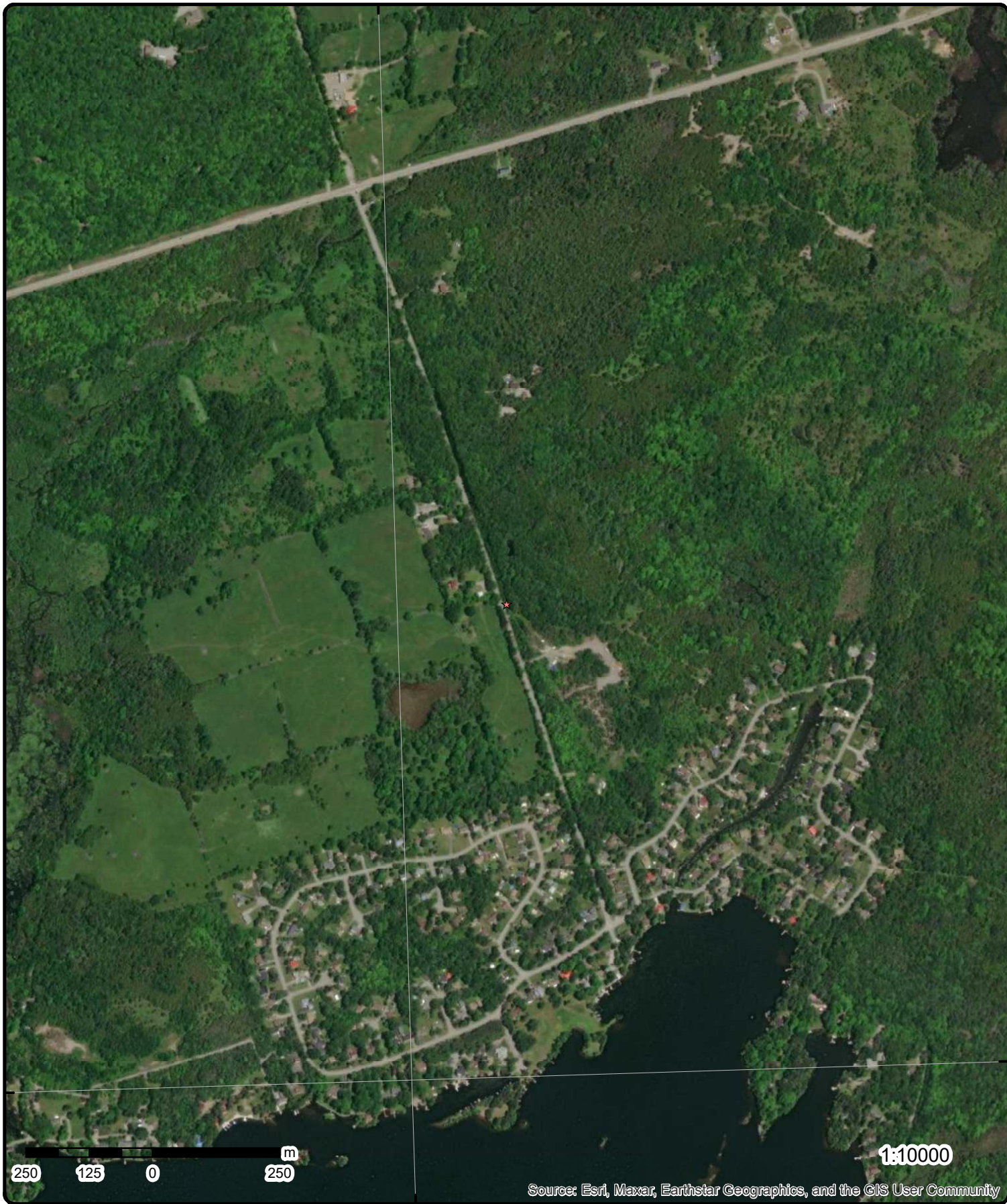


★ Project Property	Freeways; Highways	Beach	Shopping & Sports Area
⬡ Buffer Outline	Traffic Circle; Ramp	Airport	University/College
▲ Eris Sites with Higher Elevation	Major Arterial; Minor Arterial	Industrial Area	Cemetery; Golf Course
■ Eris Sites with Same Elevation	Local Road	Military Base	Park (National)
▼ Eris Sites with Lower Elevation	Service Road; Traffic Circle; Ramp	Aircraft Roads	Park (City/County)
○ Eris Sites with Unknown Elevation	Rail	Native Reservation	
		Hospital	

78°28'30"W

44°34'30"N

44°34'30"N



Aerial Year: 2022

Order Number: 24071700518

Address: 135 Tate's Bay Road, Trent Lakes, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: 135 Tate's Bay Road, ON

Source: ESRI World Topographic Map

Order Number: 24071700518



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	WNW/210.0	259.8 / 0.00	TAIT BAY RD lot 19 con 15 HARVEY ON WWIS

Well ID:	7042637	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Domestic	Data Entry Status:	
Use 2nd:		Data Src:	
Final Well Status:	Water Supply	Date Received:	04/16/2007
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	Z47884	Contractor:	1455
Tag:	A042805	Form Version:	3
Constructn Method:		Owner:	
Elevation (m):		County:	PETERBOROUGH
Elevatn Reliabilty:		Lot:	019
Depth to Bedrock:		Concession:	15
Well Depth:		Concession Name:	CON
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	HARVEY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7042637.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/24/2006
Year Completed: 2006
Depth (m): 31.08
Latitude: 44.5845889509998
Longitude: -78.4744130324544
X: -78.47441287709921
Y: 44.58458894783964
Path: 704\7042637.pdf

Bore Hole Information

Bore Hole ID:	11765131	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	700489.00
Code OB Desc:		North83:	4939908.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	08/24/2006	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Supplier Comment:</i>					
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		933097557			
Layer:		3			
Color:		2			
General Color:		GREY			
Material 1:		05			
Material 1 Desc:		CLAY			
Material 2:		12			
Material 2 Desc:		STONES			
Material 3:		28			
Material 3 Desc:		SAND			
Formation Top Depth:		4.260000228881836			
Formation End Depth:		7.309999942779541			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		933097559			
Layer:		5			
Color:		7			
General Color:		RED			
Material 1:		21			
Material 1 Desc:		GRANITE			
Material 2:		26			
Material 2 Desc:		ROCK			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		7.920000076293945			
Formation End Depth:		31.079999923706055			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		933097555			
Layer:		1			
Color:		6			
General Color:		BROWN			
Material 1:		02			
Material 1 Desc:		TOPSOIL			
Material 2:					
Material 2 Desc:					
Material 3:					
Material 3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.30000001192092896			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		933097556			
Layer:		2			
Color:		6			
General Color:		BROWN			
Material 1:		05			
Material 1 Desc:		CLAY			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material 2:		12			
Material 2 Desc:		STONES			
Material 3:		13			
Material 3 Desc:		BOULDERS			
Formation Top Depth:		0.30000001192092896			
Formation End Depth:		4.2600000228881836			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		933097558			
Layer:		4			
Color:		2			
General Color:		GREY			
Material 1:		17			
Material 1 Desc:		SHALE			
Material 2:		28			
Material 2 Desc:		SAND			
Material 3:					
Material 3 Desc:					
Formation Top Depth:		7.3099999942779541			
Formation End Depth:		7.920000076293945			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933317139			
Layer:		1			
Plug From:		0.0			
Plug To:		6.090000152587891			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		967042637			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11772821			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930898027			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0.0			
Depth To:		7.920000076293945			
Casing Diameter:		15.899999618530273			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930898028			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:		7.920000076293945			
Depth To:		31.079999923706055			
Casing Diameter:					
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Results of Well Yield Testing</u>					
Pumping Test Method Desc:		PUMP			
Pump Test ID:		11778083			
Pump Set At:		28.950000762939453			
Static Level:		6.400000095367432			
Final Level After Pumping:		14.930000305175781			
Recommended Pump Depth:		28.950000762939453			
Pumping Rate:		45.459999084472656			
Flowing Rate:					
Recommended Pump Rate:		45.459999084472656			
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:					
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803876			
Test Type:		Recovery			
Test Duration:		1			
Test Level:		13.59000015258789			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803886			
Test Type:		Draw Down			
Test Duration:		20			
Test Level:		13.40999984741211			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803880			
Test Type:		Draw Down			
Test Duration:		5			
Test Level:		8.829999923706055			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803883			
Test Type:		Recovery			
Test Duration:		10			
Test Level:		7.920000076293945			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803887			
Test Type:		Recovery			
Test Duration:		20			
Test Level:		6.400000095367432			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803891			
Test Type:		Draw Down			
Test Duration:		50			
Test Level:		14.930000305175781			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803878			
Test Type:		Recovery			
Test Duration:		3			
Test Level:		11.880000114440918			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803879			
Test Type:		Recovery			
Test Duration:		4			
Test Level:		10.65999984741211			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803882			
Test Type:		Draw Down			
Test Duration:		10			
Test Level:		10.359999656677246			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803885			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		7.309999942779541			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803877			
Test Type:		Recovery			
Test Duration:		2			
Test Level:		12.800000190734863			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		11803884			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		11.880000114440918			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803881			
Test Type:		Recovery			
Test Duration:		5			
Test Level:		9.75			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803890			
Test Type:		Draw Down			
Test Duration:		40			
Test Level:		14.930000305175781			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803888			
Test Type:		Draw Down			
Test Duration:		25			
Test Level:		14.630000114440918			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803889			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		14.930000305175781			
Test Level UOM:		m			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		11803892			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		14.930000305175781			
Test Level UOM:		m			
<u>Water Details</u>					
Water ID:		934085316			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		31.079999923706055			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		11851411			
Diameter:		15.899999618530273			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Depth From:</i>		0.0			
<i>Depth To:</i>		31.079999923706055			
<i>Hole Depth UOM:</i>		m			
<i>Hole Diameter UOM:</i>		cm			

Unplottable Summary

Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 19 Con 14	Harvey ON	

Unplottable Report

Site: Lot 19 Con 14 Harvey ON

Database:
AAGR

Type: Pit
Region/County: Peterborough
Township: Harvey
Concession: 14
Lot: 19
Size (ha): 0.28
Landuse:
Comments:

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2024

Borehole:

Provincial

[BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -May 2024

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-May 2024

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Jun 30, 2024

Drill Hole Database:

Provincial [DRL](#)

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

Government Publication Date: 1886 - Aug 2023

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Apr 30, 2024

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 - Jun 30, 2024

Environmental Compliance Approval:

Provincial [ECA](#)

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

Government Publication Date: Oct 2011-Apr 30, 2024

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-Mar 31, 2024

Environmental Issues Inventory System:

Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Mar 2024

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2022

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

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

Government Publication Date: 1846-Feb 2024

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2022

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal

[NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020:

Federal

[NPR2](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic:

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. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

[OGWE](#)

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

Government Publication Date: 1988-May 31, 2024

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 2023

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 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 - Jun 30, 2024

Canadian Pulp and Paper:

Private

[PAP](#)

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

[PES](#)

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Apr 30, 2024

NPRI Reporters - PFAS Substances:

Federal

[PFCH](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI:

Federal

[PFHA](#)

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per- and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents:

Provincial

[PINC](#)

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing is an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jun 30, 2024

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: 1986-1990, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2024

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-Apr 30, 2024

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests. This database includes spill incidents that occurred in Mar 2023-Mar 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

Wastewater Discharger Registration Database:

Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2023

Variances for Abandonment of Underground Storage Tanks:

Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Apr 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LT 19 CON 14 HARVEY AS IN R339362 EXCEPT PTS 1 TO 9 45R6981 & PT 1 45R16362; MUNICIPALITY OF TRENT LAKES

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

DIVISION FROM 28365-0073

PIN CREATION DATE:

2017/07/04

OWNERS' NAMES

1154853 ONTARIO INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2017/07/04 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 2007/06/25 **</p>						
R160041	1966/05/26	BYLAW				C
PE197413	2013/11/12	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** MCPHERSON, THOMAS	AVEDIAN, BEDROS GARRITANO, EUGENIO	
REMARKS: PLANNING ACT STATEMENTS.						
PE197415	2013/11/12	CHARGE		*** DELETED AGAINST THIS PROPERTY *** 2394735 ONTARIO INC. AVEDIAN, BEDROS GARRITANO, EUGENIO	BUFFALO BAY LIMITED	
PE279564	2017/10/27	TRANSFER	\$270,000	AVEDIAN, BEDROS GARRITANO, EUGENIO	1154853 ONTARIO INC.	C
REMARKS: PLANNING ACT STATEMENTS.						
PE279569	2017/10/27	DISCH OF CHARGE		*** COMPLETELY DELETED *** BUFFALO BAY LIMITED		
REMARKS: PE197415.						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Appendix B

Aerial Photographs



HISTORICAL AERIALS

Project Property: Environmental Site
Assessment, 135 Tate's Bay Road
135 Tate's Bay Road
Trent Lakes ON K0M 1A0

Project No: 12546156-01

Requested By: GHD Limited

Order No: 24071700518

Date Completed: July 22,2024

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, 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 ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2022	Maxar Technologies	10,000	
2008	Government of Ontario	10,000	
1995	National Air Photo Library	10,000	
1981	National Air Photo Library	10,000	
1976	National Air Photo Library	10,000	
1966	National Air Photo Library	10,000	
1951	National Air Photo Library	10,000	
1940	Decade Coverage Unavailable	10,000	
1930	Decade Coverage Unavailable	10,000	
1920	Decade Coverage Unavailable	10,000	

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

250
Meters



Year: 2022
Source: MAXAR
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



Year: 2008
Source: GON
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



Year: 1995
Source: NAPL
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



Year: 1981
Source: NAPL
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



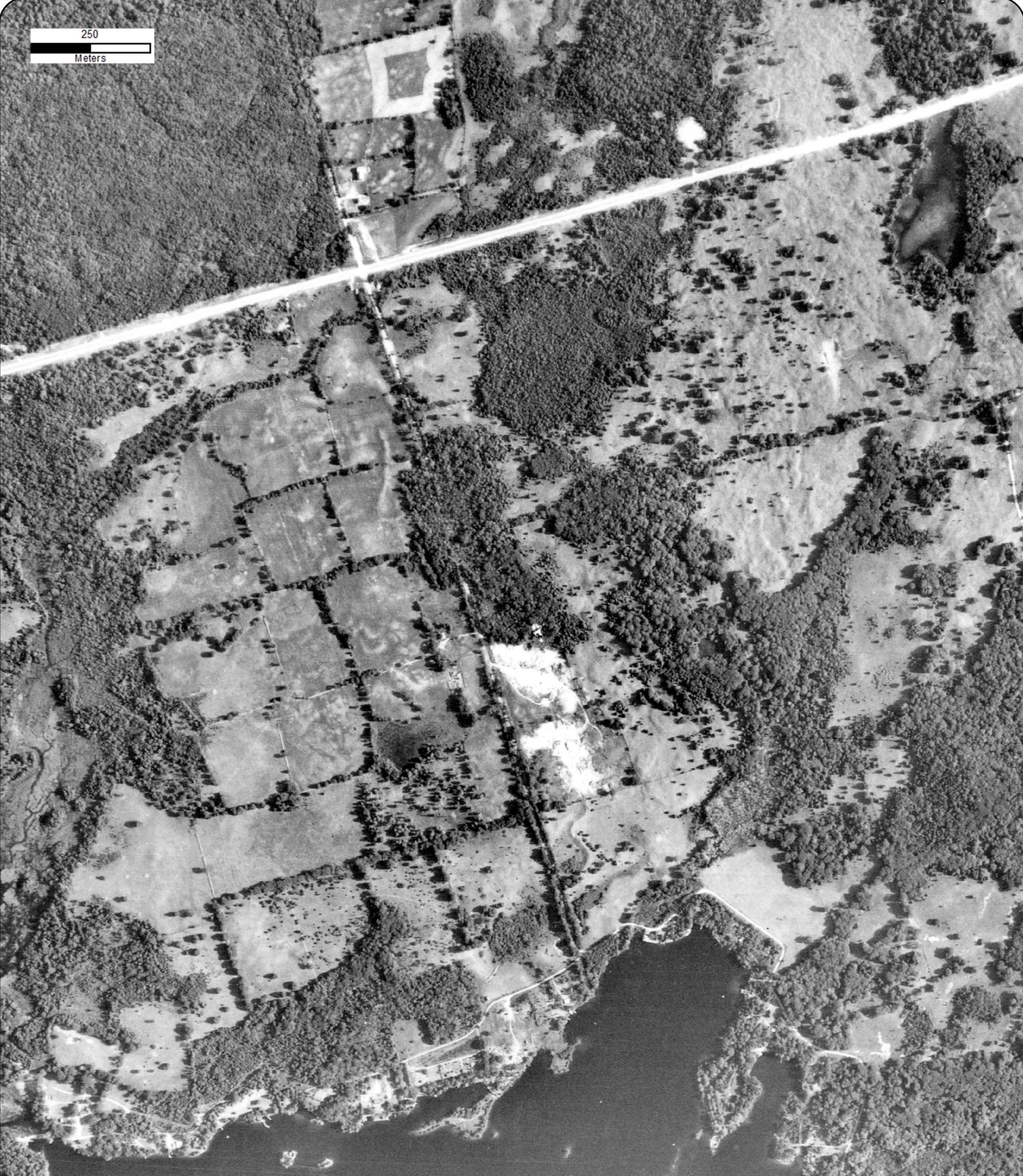
Year: 1976
Source: NAPL
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



Year: 1966
Source: NAPL
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



250
Meters



Year: 1951
Source: NAPL
Scale: 10,000
Comment:

Address: 135 Tate's Bay Road, Trent Lakes, ON
Approx Center: -78.4723636,44.5833946

Order No: 24071700518



Appendix C

Property Photographs



Photo 1 - View of the Tate's Bay Road from the Property, facing south.



Photo 2 - View of retained lot to the north of the Property showing former aggregate extraction area.

Site Photographs



Photo 3 - View of stockpiled rock and soil on retained lot to the north of the Property.



Photo 4 - View of heavily treed on the Property, facing north on Tate's Bay Road.

Site Photographs

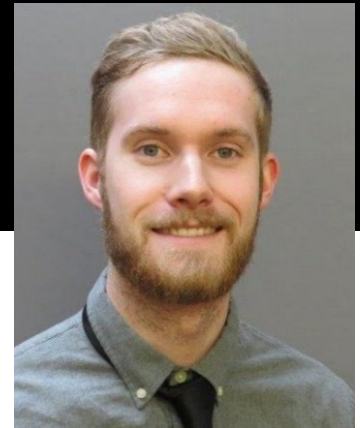
Appendix D

Qualifications of Site Assessors



Wesley Gordon Moore P.ENG.

Environmental Engineer



Location

Peterborough, Ontario, Canada

Experience

8 years

Qualifications/Accreditations

- Professional Engineer (P.Eng.), 2021
- Qualified Person (QP) as defined by the Ministry of the Environment as it pertains to O.Reg. 153/04 and O.Reg.406/19
- 40-hour HAZWOPER Training, 2022
- Canadian Red Cross First Aid & CPR/AED Level C Training, 2022
- Bachelor of Engineering (B. Eng.), Environmental Engineering, Carleton University, 2014

Relevant experience summary

Wesley has acquired vast experience over the last 8 years through involvement with a variety of projects within Ontario and the United States. This experience includes Waste Disposal Site Monitoring and Reporting, Environmental Site Assessments, Environmental Remediation, Excess Soil Management, Contaminated Site Assessment and Remediation and Hydrogeology/Geotechnical projects.

Project experience – Environmental

Various Projects

Project Coordinator – Project Manager | 2016 - present

- Conducting and supervising environmental investigations and field exploration programs, including drilling and excavating activities, in-situ testing, soil and groundwater sampling and site inspection services.
- Overburden and bedrock drilling.
- Extensive field experience in conducting hydrogeologic investigations including well surveys, water well sampling and establishing monitoring programs for groundwater/surface.
- Knowledge of landfill monitoring program development and continued works.
- Experienced with Phases One and Two Environmental Site Assessments (ESA) using protocol documented by the MECP and Canadian Standards Association (CSA).
 - The Phases One and Two ESAs have been completed for banks, private individuals, large corporations and has knowledge of filing these documents on the Environmental Registry as Record of Site Condition submissions.

- Supervised and conducted remedial programs to meet applicable soil and groundwater standards for various properties to target chlorinated organics, PCBs, petroleum hydrocarbons and metals.
- Completed UST removals in accordance with Technical Standards and Safety Authority (TSSA) guidelines.
- Conducted extensive work in groundwater, surface water and residential (drinking) water sampling in a variety of projects i.e. landfill and ESA.
- Worked with GHD F.I.R.S.T (Fast Incident Response Services Team) on the Superior, WI HUSKY Refinery explosion in 2018. Related tasks included community and on-site air monitoring and sampling.
- Extensive environmental remediation work completed for Waterfront Toronto future development. Work included overseeing drilling of geotechnical and environmental boreholes; installation, development and sampling of groundwater monitoring wells; coordination with stakeholders and property owners for site access; managing field activities and coordinating multiple sub-contractors.

Project experience – Hydrogeology

Landfill Monitoring

Environmental Technician/Project Coordinator | Twp. Asphodel-Norwood | County of Peterborough, Ontario, Canada | 2016 - 2021

- In-field monitoring and sampling of ground and surface water stations, methane gas monitoring, data breakdown and report preparation for two landfill sites in the Township of Asphodel-Norwood.

Landfill Monitoring

Environmental Technician/Project Coordinator | Twp. Minden Hills | County of Haliburton, Ontario, Canada | 2018 - present

- Infield monitoring and sampling of ground and surface water stations, methane gas monitoring, data breakdown and report preparation to for seven landfill sites in the Township of Minden Hills.

Various Projects

Project Manager | 2016 - present

- Conducting project management and project coordination for work relating to excess soil management, environmental site assessments and landfill monitoring programs.

Project experience – Geotechnical

Phase Two Environmental Site Assessment

Field Technician/Project Coordinator | Ribcor Holdings Inc. | Twp. Scugog, Ontario, Canada

- Development of Site Alteration and Fill Management Plans

Career history

2016 - present	GHD Limited, Peterborough, Ontario Canada
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Robert Neck P.GEO.(LIMITED)

Associate



Location

Peterborough, Ontario

Experience

26 years

Qualifications/Accreditations

- M. Eng (Civil Engineering), University of Waterloo, 2005
- B.Sc. (Environmental Science), University of Guelph, 1997

Key Technical Skills

- Hydrogeological Assessments
- Permits To Take Water / EASR Applications
- Environmental Site Assessments / Records of Site Condition
- Excess Soil
- Land Development, Remediation, UST Removals

Certifications / Training

- Qualified Person for ESAs/RSCs and Excess Soil
- Standard First Aid with CPR Level A and AED, current
- WSIB Joint Health and Safety member and Committee Certified Member - Management. Former Management Chair, Office Safety Captain
- Training courses through employee training programs for construction, hazardous waste, subcontractor management, WHMIS, fall protection

Memberships

- Registered Professional Geoscientist (Limited)
- Associations of Professional Geoscientists of Ontario

Relevant experience summary

Robert has nearly 25 years of experience of physical hydrogeologic and environmental experience throughout Ontario. He is an associate project director / senior geoscientist / hydrogeologist undertaking Environmental Site Assessments, Designated Substance Surveys and Hydrogeological projects including remediation and environmental consultation to facilitate improved outcomes for clients on their projects. Robert utilizes effective and competent communication mechanisms to inform clients regarding project progress, outcomes, and management of change regarding scope and cost. Robert has also been a member of the Joint Health and Safety Committee for the Peterborough office for the last 13 years, including as management chair.

Project experience – Environmental Site Assessment Projects

Various Environmental Site Assessments

Project Manager | Various Clients | Various Locations, Ontario, Canada | 2008 - Present

Conducted and managed over 100 ESAs of various properties for due diligence and Record of Site Condition purposes throughout Ontario. Involved in conducting site

reconnaissance, interviews, records reviews, sampling and analysis planning, coordination of drilling and reports.

Facilitates liaison with clients throughout the duration of the projects as well as with various banks, real estate agents, developers and private clients. Also includes interaction with the Ministry of the Environment, Conservation and Parks (MECP) for Records of Site Condition (RSC) in the successful completion of these projects.

Project experience – Hydrogeologic and Geotechnical Projects

Various Hydrogeologic and Geotechnical Projects

Project Manager | Various Clients | Various Locations, Ontario, Canada | 2008 - Present

Manages hydrogeological and geotechnical projects to assess water balances for new developments, Permits To Take Water related to construction dewatering, and hydrogeological and geotechnical assessments related to subdivision development (private and municipally serviced) and master environmental servicing plans (MESPs) within the Durham Region. Supervises pumping tests and conducts nitrate impact assessments for rural subdivision developments in accordance with MECP Protocols D-5-4 and D-5-5.

Coordination of team members and communication of information to clients, regulators and peer reviewers. Participates in public meetings for these projects.

Project experience – Remediation Projects

Parkland Fuel Remediation

Project Manager | Parkland | Minden, Ontario, Canada | 2018

Responsible for clean-up and reporting of diesel spill at rental centre. GHD mobilized to the site on Civic Long Weekend. Prepared remediation action plan and began clean-up. ASTs were removed and soil was excavated and disposed of. Culverts were remediated in place. Confirmatory samples collected in accordance with regulatory documentation. Sediment of adjacent river confirmed to meet applicable standards. Regular interaction with Client and MECP.

Various Remediation Projects

Project Manager | Various Clients | Various Locations, Ontario, Canada | 1999 - Present

Has managed remedial projects that have varied from heating oil spills to gas and service station clean-ups to large scale industrial site remediation activities. Remediation of contaminants includes metals, petroleum hydrocarbons, chlorinated solvents, and polychlorinated biphenyls in soil, groundwater and sediment.

Duties involve coordination and liaison with numerous regulatory agencies including TSSA, MECP, MNR, DFO, and Conservation Authorities. Robert has successfully coordinated and managed the clean-up of a number of contaminated sites including those to meet the

applicable MECP Standards and for submission of RSCs.

Successfully managed and coordinated numerous teams on projects to meet milestones and goals including the remediation of PCB contaminated soils and sediments at an industrial facility and adjacent creek. Management of 40 sub-contractors and over 20,000 hours without a reportable incident to complete the project. The clean-up included approximately 10,250 tonnes of sediment and the rehabilitation of the creek. Liaison with local stakeholders and various regulators including the DFO, MNR, MECP and local Conservation Authority. Other aspects of the project included the demolition of a portion of the facility, re-routing the storm and sanitary sewer networks, confined space work and regular correspondence with regulatory agencies.

Project experience – General Motors of Canada Projects

Staff Scientist | General Motors of Canada Limited | London/Windsor, Ontario, Canada and Ste. Therese, Quebec, Canada | 2002 - 2003

Oversight of collection of groundwater samples, process-water sewer samples, surveying, and preparing a preliminary Remedial Action Report for proposed demolition projects.

General Motors of Canada; Woodstock, Ontario, Canada | 1999

Completed a Phase II investigation. Supervised the installation, development and sampling of six wells. Abandoned the wells in accordance with O.Reg. 903.

General Motors; Locomotive Facility, London, ON, Canada | 2004

Undertook field investigation within a neighbouring creek from impacts at the industrial facility. Involved in the monitoring of the creek including the collection of benthic organisms and sediment samples.

Project experience – Environmental Projects

Various Environmental Projects

Project Manager / Staff Scientist | Various Clients | Various Locations, Ontario, Canada | 1998 - 2008

Involved in numerous Phase One and Two ESAs and environmental investigations across Ontario including Moosonee, Sarnia, and Deloro, Argenteia in Newfoundland and Maine, USA. Has supervised and conducted numerous drilling and test pitting projects; sampled soil, groundwater, sediment and surface water

and was an integral part of consulting teams designed to produce results for various clients.

Supervised the completion of field work conducted at the Deloro Mine Site including test pits, monitoring wells, boreholes and sediment samples. Maintained a thorough health and safety policy for all onsite workers including awareness of low-level radioactivity and exposure to metals. Conduct a sediment sampling program downstream of the Deloro Mine Site during winter conditions. Snowshoes and sleds were used to mobilize equipment to collect the sediments from below the ice cover. Collected 125 sediment samples from 41 locations. Each sample was logged and monitored for gamma and beta activity. Prepared technical reports summarizing the field activities for Deloro Mine Site and offsite activities.

Project manager for environmental investigations and initial remedial activities for the decommissioning of Dow Chemical. Staff lead of a multi-discipline team for assessing and planning the decommissioning of the north area of the chemical facility. Conducted environmental assessment work at NOVA Chemicals in Sarnia.

Project manager of programs conducted at the Cambridge Landfill, Region of Waterloo. Work included annual reporting of groundwater data to the MECP, installation of additional monitoring wells using Roto-Sonic and mud rotary techniques, hydraulic response testing and domestic well inspections. Evaluated impacts to the local aquifer, neighbouring creek and private domestic wells.

Project experience – Designated Substances Surveys

Various Designated Substances Surveys

Project Manager | Various Clients | Various Locations, Ontario, Canada | 2008 - Present

Project manager of numerous DSS projects in Ontario. These projects include the inspection and characterization of materials such as asbestos, lead, mercury and PCBs for private and public clients during renovation and demolition projects. Have also completed DSS in response to MOL orders to enable clients to continue meeting their construction schedules.

Project experience – Nuclear Projects

Bruce-Nuclear, Chalk River and Pickering Nuclear Generating Station

Supervisor / Staff Scientist | Bruce-Nuclear, Chalk River and Pickering Nuclear Generating Station | Chalk River/Pickering, Ontario, Canada | 1999 - 2002

Involved in the supervision of the removal of 22 low level radioactive tile holes at Bruce Nuclear including health and safety inspections on this \$4M project. At Pickering Nuclear provided oversight of a tritium investigation that included drilling of numerous boreholes. Groundwater was also collected from 150 wells, 10 sumps and 20 tile drains and rainwater from gauges to assess radioactivity. Responsible for collecting sediment and soil samples from various lakes and streams at Chalk River. Sediment and water samples were collected from the Ottawa River.

Project experience – Spill Response

Spill Response

Project Manager | Insurance Agencies, City of Kawartha Lakes, Haliburton and Peterborough Counties | Ontario, Canada | 2008 - Present

Response to reported spills requiring remediation:

- Establishing remediation protocol and monitoring for compliance with MECP or TSSA issued Orders
- On-site review related to the removal of underground storage tanks and associated remediation protocols required from hydrocarbon contamination
- Providing client liaison and final reports to establish environmental status of properties relative to contaminant of concern.

Career history

2014 – Present	GHD, Peterborough, ON
2008 – 2014	Geo-Logic, Peterborough, ON
1998 – 2008	CH2M Hill, Kitchener-Waterloo, ON



ghd.com

➔ **The Power of Commitment**