THURBER ENGINEERING LTD.

ASSESSMENT OF PAST USES REPORT
OLD FORT ROAD BRIDGE REPLACEMENT
SIMCOE COUNTY
ONTARIO

Report

to

LEA Consulting Ltd.

on behalf of

County of Simcoe

Date: February 2023
File: 35527

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I. EXECUTIVE SUMMARY

This report presents the findings of an Assessment of Past Uses (APU) for an infrastructure undertaking involving the replacement of an existing bridge that carries Old Fort Road over an abandoned CN Railway that is now part of the TransCanada Trail, in Simcoe County, Ontario.

The project involves the replacement of the existing structure with a new single-span bridge that will be lowered due to the reduced clearances necessary for the recreational trail, and includes the replacement of an existing culvert to the north of the bridge. To accommodate the grade changes, and excavations for the culvert and bridge foundation, an estimated volume of 4,774 m^3 of excess soil will be generated.

The Project Area includes portions of Old Fort Road where earthworks will be completed to facilitate the removal of the existing bridge, lowering of the existing embankments and installation of a new bridge span, and replacement of an existing culvert to the north of the bridge. The Project Area is approximately 155 m in length, extending out approximately equidistant from the central portion of the bridge and up to approximately 12 m in width. No excavations are planned within the former railway right-of-way/current TransCanada recreational trail. Therefore, the right-of-way for the former railway / current TransCanada trail was not considered a part of the Project Area.

The APU Report was prepared as a supporting Planning Document for the management of excess soil in accordance with Ontario Regulation 406/19 *"On-Site and Excess Soil Management"*.

The objectives of the Assessment of Past Uses Report were as follows:

- To determine the likelihood for the presence or absence of areas of potential environmental concern (APECs) where one or more contaminants of concern may have impacted the land, in or under the Project Area through an evaluation of the contributions of potentially contaminating activities (PCAs) in the Assessment of Past Uses Study Area; and
- To provide guidance for the preparation and implementation of a sampling and analysis plan for the management of excess soil within the Project Area by evaluating the contaminants of potential concern (COPCs) associated with the APECs.

The Assessment of Past Uses Report was completed in general accordance with Part I of Section B of the Rules for Soil Management and Excess Soil Quality Standards, published by the Ministry of Environment, Conservation and Parks (MECP) under Ontario Regulation 406/19,

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as amended. A detailed records review and Site Reconnaissance and evaluation of the findings were conducted as per the requirements of the regulation.

Based on an evaluation of the information obtained during this investigation, a summary of the key findings of the APU is provided as follows.

Historically, the Project Area has primarily consisted of community uses (roadway) since at least 1930 when the right-of-way for Old Fort Road was present. The intended property use for the Project Area will remain unchanged (i.e., community use) for the infrastructure undertaking involving the replacement and lowering of the bridge.

The Project Area is situated within a rural setting. Adjacent properties generally consist of residential, agricultural, and vacant, undeveloped wooded lands, and to a lesser extent, industrial (hydro corridor, salvage yard) properties.

A review and evaluation of various records and environmental databases and Site Reconnaissance identified two PCAs that were considered to contribute to the following APEC within the Project Area:

- **APEC 1** is the entire Project Area which involves fill materials of unknown quality likely used to establish the existing road grades, and are present within the approach embankments for the bridge construction; and, past railway operations adjacent to the Project Area.

In addition to the identified PCAs, impacts (i.e., electrical conductivity [EC] and sodium adsorption ratio [SAR]) related to the application of salts on the roads for vehicular and pedestrian safety should be considered for the Project Area.

The contaminants of potential concern associated with the PCAs included metals and inorganics (that includes pH, EC and SAR), petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs).

It is noted that in some northern regions, oils have historically been sprayed as a dust suppressant on roads that may have impacted the nearby soils / fill materials. It is not known if this possible activity pertains to the Project Area, and therefore, was not identified as a PCA although PHCs will be analyzed as part of the mandatory parameters. In this regard, it is recommended that polychlorinated biphenyls (PCBs) also be analyzed, together with the PHCs, on select samples for due diligence.

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Based on an evaluation of the information obtained during this APU, a subsurface investigation involving the completion of a Sampling and Analysis Plan (SAP) and Soil Characterization Report (SCR) in accordance with O. Reg. 406/19, as amended, would be required to confirm or refute the presence of the COPCs in the soil within proposed excavation depths that are planned within the identified APEC.

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1. INTRODUCTION

This report presents the findings of an Assessment of Past Uses (APU) for an infrastructure undertaking involving the replacement of the bridge carrying Old Fort Road over the TransCanada recreational trail in Simcoe County, Ontario.

The APU Report was completed by Thurber Engineering Ltd. (Thurber) to assist in the detailed design of the Old Fort Road Bridge being undertaken by LEA Consulting Ltd. (LEA) on behalf of the County of Simcoe (the County) as part of the requested Planning Documents to support the management of excess soil that may be generated during construction of the proposed infrastructure improvements.

It is a condition of this report that Thurber's performance of its professional services is subject to the attached Statement of Limitations and Conditions.

The APU Report was prepared in general accordance with Part I of Section B of the Rules for Soil Management and Excess Soil Quality Standards, published by the Ministry of Environment, Conservation and Parks (MECP) under Ontario Regulation 406/19, as amended (herein referred to as O. Reg. 406/19).

It is understood that the project will include the replacement of the existing structure with a new single-span bridge that will be lowered due to the reduced clearances necessary for the recreational trail, and includes the replacement of an existing culvert to the north of the bridge. To accommodate the grade changes, the existing embankments will be lowered, and excavations will be carried out for the culvert and bridge foundation that will result in the generation of excess soil that will require transfer to an off-site destination property. An estimated volume of 4,774 m^3 of excess soil was provided to Thurber by LEA.

The locations within the Project Area designated for stockpiling or possible processing of soil for potential removal from the Project Area, if any, have not been determined at the time of this report.

The purpose of the APU is to provide a preliminary assessment of the likelihood for the presence or absence of potentially contaminated soils within proposed excavation depths in the Project Area through the identification of potentially contaminating activities (PCAs) and the associated contaminants of potential concern (COPCs) that may be contributors to areas of potential environmental concern (APECs). The information will be used to provide guidance for

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the preparation and implementation of a Sampling and Analysis Plan for the management of excess soil within the Project Area.

This Report uses the International System of Units (SI Units).

a. Project Personnel

The Project Leader is Jae Park, P.Eng., of the County of Simcoe, and the Qualified Person (QP) is Mr. Peter Mann, P.Eng., $QP_{(ESA)}$ of Thurber, with the following coordinates:

Project Leader	Jae Park, P.Eng. Project Engineer, Transportation Construction County of Simcoe, Transportation & Engineering 1110 Highway 26, Midhurst, Ontario L9X 1N6 Phone: 705-726-9300 Ext. 1166 Fax 705-727-7984 Cell: 705-795-0608 E-mail: jae.park@simcoe.ca
Qualified Person	Peter Mann, P. Eng., QP_{ESA} Senior Geo-Environmental Engineer, Thurber Engineering Ltd. Unit 3 – 250 Thompson Drive, Cambridge, Ontario N1T 2H9 T. 647 954 1592 Email: pmann@thurber.ca

b. Project Area Description

The Project Area consists of the right-of-way (ROW) for the existing two-lane bridge and approach embankments for Old Fort Road that extends over a former railway and current TransCanada recreational trail, located approximately 280 m to the south of Highway 12 as shown on Drawing 355287-1.

The Project Area includes portions of Old Fort Road where earthworks will be completed to facilitate the removal of the existing bridge, lowering of the existing embankments, and installation of a new bridge span, and replace the existing culvert to the north of the bridge. Based on available drawings, the Project Area is approximately 155 m in length, extending out approximately equidistant from the central portion of the bridge, and up to approximately 12 m in width.

The existing bridge structure is oriented in a generally north-south direction with an approximate 38 m span that carries two lanes of traffic on an approximately 8.2 m wide road that extends over the former railway / current TransCanada recreational trail.

The bridge comprises concrete construction with a narrowly paved shoulder and concrete curbs and guardrails. The roads on the approach embankments are asphalt paved with gravel

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shoulders and steel guard rails that extend out from the bridge approximately 20 m in either direction. Surface water is directed to vegetated ditches on either side of the embankments.

No excavations are planned within the former railway ROW / current TransCanada recreational trail, including near the existing ditch/watercourse between the trail and the base of the south embankment. Therefore, the ROW for the former railway / current TransCanada trail was not considered a part of the Project Area.

The boundaries of the Project Area are presented on Drawings 35527-2 and 35527-3.

The proposed bridge replacement is understood to be located within the existing road ROW, and therefore, the land use (i.e., community) will remain unchanged. On this basis, a Record of Site Condition (RSC) will not be required by MECP for the proposed improvements.

The property uses along the subject corridor alignment generally included rural residential properties that front onto Old Fort Road, community (road), agricultural and vacant, undeveloped wooded lands, and to a lesser extent industrial property uses.

The APU Report was prepared for a linear corridor for the purposes of assessing the potential of encountering contamination within proposed excavation depths for the project. In this regard, there is no intention to submit an RSC for the subject corridor on the basis of the APU Report, and therefore, a summary of municipal addresses, property identification numbers and individual property owners are not considered necessary by the Qualified Person to meet the objectives of this Planning Document to support the infrastructure improvements.

A search of the Ministry Database identified no RSC filed within the Project Area (roadway) or within the APU Study Area. To Thurber's knowledge, no Risk Assessment Report has been completed for the Project Area and an RA is not planned to be filed as part of the APU.

We understand that the County owns the ROW that will be required for the roadway and bridge reconstruction, and environmental site assessments for property acquisitions are not required. Due diligence environmental site assessments for property acquisition are beyond the services proposed by Thurber for this APU Report.

The approximate geographic coordinates of the project centre are shown below:

Geographic Coordinates of the approximate Project Centre (NAD 83)	4953950 m N, 592515 m E UTM Zone 17 T

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2. SCOPE OF INVESTIGATION

The APU included the following components:

- A search of the available fire insurance plans (FIPs) for the Project Area and review the available plans, if any;
- Review of EcoLog Environmental Risk Information Services Ltd. (ERIS) Report for the APU Study Area, which included searches of various federal, provincial and private source databases for records of potential environmental concern such as spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions;
- Obtain and review of city directories for the Project Area and selected properties in the APU Study Area;
- An MECP Well Records Search in the APU Study Area;
- Review of relevant aerial photographs from year 1930 to year 2021 at an approximate ten-year interval, where available;
- Review of local topographic and geologic maps for the APU Study Area;
- Review of a previous geotechnical report that was completed for the proposed improvements;
- A request of Freedom of Information (FOI) search from MECP was not considered warranted for this infrastructure undertaking with a rationale provided in Section 4.a.(vii) of the report;
- Title searches for the Project Area were not considered warranted for this infrastructure undertaking with a rationale provided in Section 4.a.(iv) of the report;
- Interviews with the current Site owners were not completed with a rationale provided in Section 5 of the report;
- Review of the previous geotechnical investigation completed by Thurber in March 2021, which included a limited scope of environmental soil testing; and,
- A Site Reconnaissance of the Project Area and APU Study Area was conducted on September 27, 2022 by Michael Vaselenak, P. Eng., of Thurber.

Thurber compiled, reviewed, interpreted, and evaluated the data collected from the records review and Site Reconnaissance to identify the locations of Potentially Contaminating Activities (PCAs) in the Project Area and APU Study Area, and assessed the presence of areas of potential environmental concern (APECs) in the Project Area.

3. RECORDS REVIEW

a. General

(i) Determination of Assessment of Past Uses Study Area

For the purposes of this report, the APU Study Area was determined to be an area with a 250 m radius from the boundaries of the Project Area, including adjacent properties that bisect the 250 m limits. The boundaries of the APU Study Area are shown on Drawings 35527-2 and 35527-3.

(ii) First Developed Use Determination of the Project Area

A review of the earliest available records (1930 Aerial Photograph) showed the presence of a rural road and bridge that extended over the (CN) railway that appeared to have a similar configuration to the present-day condition. On this basis, the first developed use of the Project Area was identified as community (i.e., the road) as of 1930.

(iii) Fire Insurance Plans

A search of the Fire Insurance Plans (FIPs) was conducted by Opta Information Intelligence – Enviroscan at the request of Thurber. No Fire Insurance Plans were found available within the APU Study Area. The Opta report which identified that no FIPs were available is provided in Appendix A.

(iv) Chain of Title

Historical Land Title Search

The Project Area consists of a roadway which has likely been owned by the municipality (or other government agency i.e., MTO) since at least 1930 and first development, and therefore, with historical information obtained from other record sources, title searches are not considered by the Qualified Person to be necessary to meet the objectives of this Planning Document to support the infrastructure improvements. However, title searches should be included as part of

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due diligence through completion of a Phase I Environmental Site Assessment for properties subject to acquisition, which is beyond the scope of services proposed by Thurber.

City Directories

A search of City Directories for the Project Area and APU Study Area was conducted by ERIS at the request of Thurber. The City Directory Search results revealed only residential listings which are not considered to represent any PCAs within the APU Study Area. The City Directory Search results are presented in Appendix B.

(v) Environmental Reports

No environmental reports were made available by the Client for this APU.

Thurber completed a Foundation Investigation and Pavement Design Report (Thurber Report, File # 28556 dated March 31, 2021). A review of the report indicated that four of fourteen boreholes (OFR-02 to OFR-05) were advanced within the embankments (and Project Area) to depths of approximately 3.7 m below grade. Two of these boreholes (OFR-02, OFR-03) were advanced within and near the base of the north embankment, and the other two boreholes (OFR-04, OFR-05) were advanced within and near the south limit of the south embankment. The ground surface generally existed at approximate Elevation 192.0 m near the north limit of the embankment, Elevation 195.5 m near the bridge, and up to about Elevation 197.0 m near the south limit of the embankment where the natural ground rises to the south.

Based on the Record of Borehole sheets for OFR-02 to OFR-04, approximately 3.0 m to 3.4 m of brown sand and gravel to silty sand fill materials were encountered that were overlying native brown silty sand deposits. In Borehole OFR-05 that was advanced near the south limit of the south embankment, approximately 1.0 m of sand and gravel fil was encountered that was overlain by native deposits of clay and sandy silt to sand. There were no visual or olfactory indications of impact noted within the four boreholes.

Four soil samples were submitted for analysis that included two samples from the existing embankments and two samples from along/near the existing rail trail. The results of analysis identified that the two rail trail samples were impacted by certain metals, petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). A review of the borehole logs showed that pieces of coal were identified in the fill of one borehole advanced in the railbed below the bridge. However, as

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previously indicated, no excavations are planned within the railbed. Notably, no polychlorinated biphenyls (PCBs) were detected in two fill samples from the level of the former rail trail.

Two embankment fill samples were submitted for analysis of metals and inorganic parameters: no exceedances were identified with the exception of sodium adsorption ratio (SAR). This analytical data could not be considered towards satisfying the sampling frequency for the Excess Soil's Regulation since the minimum mandatory parameters (PHCs/BTEX and metals and inorganics) were not fully completed.

(vi) EcoLog ERIS Report

An EcoLog database report was obtained from ERIS to collect environmental source information for the Project Area and within the APU Study Area. The Ecolog ERIS Report, which is presented in Appendix C, includes information collected from a search of available databases maintained by federal, provincial institutions and the private sector, including the Technical Standards and Safety Authority (TSSA). A summary of the significant findings of the EcoLog ERIS report is provided in the following table:

Ecolog ERIS Findings

Relevant Findings from EcoLog ERIS Database Report						
Municipal Address	**Database**	**EcoLog Map Key**	**Findings**	**PCA Contributor to APEC**		
				Y	**N**	**Comments**
2837 Old Fort Road	PES	9	Pesticide operator/vendor license, located at present day tree farm.		✓	Located 100 m north of the Project Area. Considered low risk based on off-set distance from Project Area and the low migration potential of pesticides.
2738 Old Fort Road	AUWR	22	An auto wrecking company operating under the name: Coney Island Auto Wreckers. No date or additional information was available in the listing.		✓	ERIS report lists the address as being 245 m south of the Project Area, however aerial photographs indicate that the location of the actual wrecking yard is approximately 320 m south and cross gradient of the Project Area. Groundwater would likely flow northwesterly towards a river near the Wye Marsh, and away from the Project Area.
2752 Old Fort Road	GEN	20	Registered waste generator for the year 2004, no other data included in listing.		✓	Located approximately 217 m south and up/cross gradient of the Project Area. Address appears to be a residential lot with a barn. Based on Google Earth, the property is identified as "the Naked Edge Table Company". Considering the small-scale operation, good house keeping observed at the location, and distant off-set, the facility is considered low risk to impact the Project Area.

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(vii) Freedom of Information Search

A Freedom of Information (FOI) request to the Ministry of Environment, Conservation and Parks (MECP) is not considered by the Qualified Person to be necessary to meet the objectives of this Planning Document to support the infrastructure improvements, particularly with the database of spills, former waste disposal sites, registration of underground/aboveground fuel storage tanks and environmental infractions provided by ERIS for the APU Study Area.

b. Physical Setting Sources

(i) Aerial Photographs

Aerial photographs were reviewed from an EcoLog ERIS search which referenced several database searches. The available aerial photographs were reviewed on an approximate 10-year interval from the earliest available year (1930) to 1995, and 2021. The reviewed photographs are presented in Appendix D. In addition to the aerial photos provided by ERIS, imagery from Google Earth Pro was reviewed and summarized for the years 2003 and 2014.

The scale of the photographs did not permit a detailed study of the Project Area and APU Study Area; however, the following observations were made with respect to the presence of buildings and structures, and general land uses and activities within the Project Area and APU Study Area, as presented in the following table:

Year	Project Area	Assessment of Past Uses Study Area
1930	The Project Area appeared to comprise a rural road and bridge oriented in a northwest-southeast direction similar to present-day orientation. The bridge passed over a (CN) railway where the corridor appears to have been excavated through the Project Area in relation to the surrounding land and extended in an east-west orientation similar to present day.	Properties within the APU Study Area appeared to comprise agricultural, residential, and vacant, wooded land uses. The CN rail line extended to the east and west and included a T shaped rail junction in the western portion of the Study Area that appeared to connect to another rail line further to the west. A regional road (possibly Talbot Street) existed to the north near the current location of Highway 12.
1959	A creek/drainage swale appeared to flow from east to west through the Project Area on the north side of the CN rail line. No other significant changes were observed since 1930.	Additional rural residential houses were observed within the Study Area to the north of the bridge on Old Fort Road.
1965	No significant changes to the Project Area were observed since 1959.	Additional houses were apparent within the Study Area to the north of the bridge on Old Fort Road.
1973	No significant changes to the Project Area were observed since 1959.	Additional houses were observed within the Study Area to the south of the bridge on Old Fort Road. Talbot Street to the north portion of the Study Area appeared to have been re-aligned to the west of Old Fort Road.

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Year	Project Area	Assessment of Past Uses Study Area
1987	Hydro transmission lines appeared to exist from east to west through the south side of the Project Area, in a similar location and orientation as present day. The CN rail line appeared to have significantly more trees and brush along the alignment. No other significant changes to the Project Area were observed since 1973.	An L-shaped structure appeared to have been constructed to the north of the Project Aera at 2837 Old Fort Road to the east of the house. The T-shaped rail junction to the west appeared to have a significant increase in vegetation growth of surrounding trees and brush. Highway 12 to the north portion of the Study Area appeared to have been constructed and curved towards the southeast, with an interchange for Talbot Street extending to the northeast. Ground disturbance appeared to the south of the Project Area at the location of the auto wrecking yard.
1995	No significant changes to the Project Area were observed since 1987.	No significant changes to the Study Area were observed since 1987.
2003	No significant changes to the Project Area were observed since 1987.	The auto wrecking operation at 2738 Old Fort Road appeared to have multiple vehicles stored on the property. No other significant changes observed since 1995.
2014	No significant changes to the Project Area were observed since 1987.	The auto wrecking operation at 2738 Old Fort Road appeared to be used for equipment / materials storage. The area of a present-day tree farm to the east of the Project Area appeared to have been cleared. No other significant changes since 2003.
2021	No significant changes to the Project Area were observed since 1987.	Additional homes were observed within the Study Area to the south of the bridge on Old Fort Road. Additional land to the east of Old Fort Road and to the north of the rail line appeared to have been cleared for agricultural purposes. Recreational trails appeared to have been cleared to the southeast of the Project Area behind a residential home and extending partially into the hydro-electric corridor.

(ii) Topography, Hydrology, Geology

A topographic map was obtained and reviewed from The Atlas of Canada – Toporama, presented by Natural Resources Canada. A copy of the map is presented in Appendix E. The overall surface topography in the vicinity of the site is generally undulating. In general, the Project Area is located within a topographic low with contours indicating the ground surface near the bridge is near Elevation 190 m above sea level (asl), with the grades rising to the south and north to approximate Elevations 210 m and 230 m asl, respectively.

The surveyed ground surface elevations that were recorded during the prior geotechnical investigation, as previously noted, ranged from approximate Elevation 192.0 m asl near the north limit of the north embankment, to Elevation 195.5 m asl near the bridge, and up to about Elevation 197.0 m asl near the south limit of the south embankment. The grade of the

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recreational rail trail below the bridge was near approximate Elevation 187 m. Surface water and groundwater is inferred to flow radially towards the Project Area from the north, south and east portions of the APU Study Area, and away from the Project Area to the west and towards the Wye Marsh.

Based on the information in *The Physiography of Southern Ontario*[1] by Chapman and Putnam(1984), the Project Area is located within the Simcoe Uplands physiographic region which is characterized by erosional and depositional processes of the last glaciation and contains fluted and drumlinized till plains interspersed amongst a larger sand plane.

Based on *Surficial Geology of Southern Ontario*[2] the surficial deposits in the central portion of the site are coarse textured foreshore and basinal glaciolacustrine deposits of sand and gravel; sand or silt till located at the north and south limits of the project; localized deposits of massive to well laminated glaciolacustrine silt and clay is shown to the southeast of the site. According to *Paleozoic Geology of Southern Ontario*[3], the bedrock geology consists of grey limestone of the Bobcaygeon Formation. Based on a review of available information, bedrock is anticipated to be approximately 30 to 40 m below grade.

(iii) Fill Materials

The findings of the geotechnical investigation report completed by Thurber in May 2021 identified up to approximately 3.0 m to 3.4 m of brown sand and gravel to silty sand fill materials within the approach embankments and have likely been imported for grading portions of the roadway (Old Fort Road).

(iv) Water Bodies, Areas of Natural Significance and Groundwater Information

The nearest surface water body to the Project Area is a small watercourse that meanders from the northeast of the Project Area, passes along the north side of the TransCanada trail and flows west towards the Wye River which is located approximately 1.1 km to the west. The Wye River flows in a northernly direction and discharges into the Tiffin Basin in Georgian Bay. The Wye Marsh National Wildlife Area is located approximately 480 m to the west of the Project Area. The locations of Wye Marsh Conservation Area, the Wye River and the tributary which

[1] Chapman, L.J. and Putnam, D.F., 1984: The Physiography of Southern Ontario, Ontario Geological Survey Special Volume 2, Third Edition. Accompanied by Map P.2715, Scale 1:600,000.
[2] Ontario Geological Survey, 2010: Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV
[3] Armstrong, D.K. and Dodge, J.E.P., 2007: Paleozoic geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 219.

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passes through the Project Area are shown on the topographic map in Appendix E. A drainage swale also exists to the south of the recreational trail that extends across the base of the south embankment.

Based on the general ground surface topography and flow direction of the watercourse and the Wye River, the regional groundwater flow direction is inferred to be west/northwesterly.

The presence of areas of natural significance is determined from a review of the following areas:

- An area reserved or set apart as a provincial park or conservation reserve under the *Provincial Parks and Conservation Reserves Act, 2006;*
- An area of natural and scientific interest (ANSI) (life science or earth science) identified by the Ministry of Natural Resources and Forestry (MNRF) as having provincial significance;
- A wetland identified by MNRF as having provincial significance;
- An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant;
- An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the *Niagara Escarpment Planning and Development Act*;
- An area which is habitat of a species that is classified under Section 7 of the *Endangered Species Act*, 2007 as a threatened or endangered species;
- Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the *Oak Ridges Moraines Conservation Act, 2001 applies*;
- An area set apart as a wilderness area under the *Wilderness Areas Act*.

A review of the above-listed records indicated that no Areas of Natural Significance were identified within the APU Study Area: the nearest being the Wye Marsh National Wildlife Area which is located approximately 480 m to the west of the Project Area and beyond the APU Study Area.

A review of source water protection areas indicated that the Project Area is located within the Severn Sound Source Protection Area.

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The data was obtained from the Ministry of Natural Resources and Forestry (Natural Heritage Areas), and the Ministry of the Environment, Conservation and Parks (Source Protection Information Atlas).

(v) Well Records

Well records were obtained from the MECP database on the Ontario website. A total of 20 well records were identified within the APU Study Area, including 12 water supply wells, seven monitoring wells / test holes, and one well with an unidentified well use reported. The well depths ranged from 4.2 m to 102.1 m below grade. The reported static water levels ranged from approximately 2 m to 25 m below grade. The depth to bedrock was reported in 10 well records and ranged from 17 m to 34 m below grade.

c. Site Operating Records

No site operating records were made available to Thurber for the Project Area. It is the opinion of the Qualified Person that given the linear nature and understanding of the Project Area (community use, roadway), a review of site operating records is not considered necessary to meet the objectives of this Planning Document, and therefore, will not change the findings of the APU.

4. INTERVIEWS

The APU did not include detailed site inspections or site interviews for each property along the linear corridor for the Project Area. The past and current land uses for the Project Area have primarily involved community uses (roads), where industrial use (rail line) previously existed beneath the bridge and beyond the Project Area since proposed excavations are not to be carried out within the former railbed. On this basis, interviews for the Project Area were not considered by the Qualified Person to be necessary to meet the objectives of this Planning Document for the purposes of assessing the potential of encountering soil contamination within proposed excavation depths in the existing approach embankments.

5. SITE RECONNAISSANCE

a. General Requirements

A Reconnaissance of the Project Area and APU Study Area was conducted on September 27, 2022 by a Thurber Representative, Mr. Michael Vaselenak, P.Eng. The Site visit was conducted after a general review of the historical records and targeted locations within the APU Study Area that may contribute to APECs in the Project Area.

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The Reconnaissance was documented with a field checklist, field notes and photographs, as required. Select photographs (Photos 1 to 8) are included in Appendix F. The Site visit was completed between 10:30 am and 11:30 am, the ground conditions were dry and clear, and the weather was overcast and 12 °C.

b. Specific Observations Within the Project Area

The Project Area consists of a two-lane road and bridge for Old Fort Road that is located approximately 280 m to the south of Highway 12 in Midland, Ontario (Photo 1). The approximately 38 m span bridge crosses above the TransCanada trail and is constructed on embankments of fill on the south (Photo 2) and north (Photo 3) sides of the trail.

The roadway was asphalt paved with gravel shoulders and steel guard rails that extend out from the bridge approximately 20 m in either direction. The bridge comprises concrete construction with a narrowly paved shoulder and concrete curbs and guardrails. The structure is supported on two sets of piers that extend through the embankments on both sides of the trail. Surface water is directed to vegetated ditches on either side of the embankment and road.

Road salt is expected to be applied to the travelled portions of Old Fort Road during the winter weather conditions for safety purposes.

The TransCanada trail beneath the bridge was also asphalt paved. The area surrounding the bridge and trail is generally wooded and overgrown with trees and dense brush (Photo 4). Surface water drains along a ditch/watercourse on the south side of the TransCanada trail and flows to the southwest.

No building structures were observed within the Project Area during the Site Reconnaissance. Residential homes were observed that fronted along Old Fort Road to the north and south of the bridge.

No above ground or underground tanks were observed within the Project Area during the Site Reconnaissance, however, multiple propane tanks for heating were observed on the exterior of a number of homes (Photos 5 and 6).

A hydro transmission corridor with two rows of overhead powerlines on wooden poles extended in an east to west direction and parallel to the south of the TransCanada trail (Photo 7). Overhead telephone and powerlines existed along both the east and west sides of Old Fort Road. Bell telephone junction boxes (Photo 8) and a utility shed existed near the north side of

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the bridge where the telephone lines switched from below ground (north of the bridge) to above ground (across and south of the bridge). Pole-mounted transformers were observed within the APU Study Area along Old Fort Road, however, no leaks or staining were observed on the transformers or on the poles and ground surface beneath the transformers.

No private water wells were identified within the Project Area through a search of MECP well records. However, multiple private water wells were reported within the APU Study Area, with the protective cover for a dug or bored well noted at 2855 Old Fort Road (Photo 6). Two monitoring wells were observed beneath the bridge on the north and south embankments. A summary of the well records reviewed was provided in Section 4.b.(v).

A review of the historic records indicated that the current TransCanada trail was a former CN rail line which extended beneath the center of the Project Area.

No staining of soil or ground cover was observed within the Project Area. The paved portions of Old Fort Road and the TransCanada trail appeared in good condition with no significant staining observed. The roadway appeared to be constructed on fill material, however no staining or odours were observed on and near areas of fill that were exposed during the Site Reconnaissance. Vegetation appeared to be healthy or dormant during the Site Reconnaissance.

(i) Enhanced Investigation Property

The Project Area consists of community use (i.e., existing roadway) and is not considered an enhanced investigation property.

c. Written Description of Investigation

The Site Reconnaissance involved a “walk-through” assessment for an approximately 0.5 km linear roadway alignment of Old Fort Road that included the bridge across the TransCanada trail and included observations of existing property uses and conditions within the APU Study Area from publicly accessible areas. The Site Reconnaissance was conducted after a preliminary review of available records so that PCAs within the Project Area and adjacent properties within the APU Study Area could be further assessed to determine if the activities may be contributors to APECs.

The purpose of the Site Reconnaissance was to observe property uses, physical settings and topographic features of the Project Area and the APU Study Area in accordance with Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended. The information was evaluated to

identify PCAs, contaminant pathways, contaminants of potential concern, sensitive receptors, and visual indications of actual or potential contamination that may impact the environmental conditions of the Project Area.

The Project Area comprised a regional road and bridge that extended over a multi-use trail (i.e., community uses) within a rural setting. Adjacent properties generally consisted of residential and agricultural properties (including nursery/Old Fort Trees that is located approximately 200 m to the east of the Project Area), wooded undeveloped lands, and to a lesser extent, industrial properties.

A summary of the investigation on the remaining portions of the Project Area and the APU Study Area is provided in the following table:

Topic	Description
Above-ground Storage Tanks (ASTs)	Propane ASTs were observed at multiple residential properties adjacent to the Project Area: • 2852 Old Fort Road (Photo 5). • 2855 Old Fort Road (Photo 6).
Underground Storage Tanks (USTs) or Evidence of USTs	None identified.
Product Piping	None identified.
Drums or Totes	None identified.
Water Supply	Several domestic water supply well records were identified in the historical records, with one well observed during the Site Reconnaissance at 2855 Old Fort Road (Photo 6).
Transformers	Pole-mounted transformers were observed within the Project Area and APU Study Area. No evidence of staining was noted on the observed transformers, or on the poles and ground surface beneath the transformers.
Commercial/Industrial Properties of Environmental Significance	An EcoLog ERIS listing for a pesticide vendor was reported at 2837 Old Fort Road. The address was observed to be adjacent to the Old Fort Trees property and likely associated with the agricultural property. An Ecolog ERIS listing for an autowrecker was reported at 2738 Old Fort Road. The operation was not visible from publicly accessible areas along the roadway. Review of the aerial photos show that the operations on the property are beyond a treeline 70 m to the west of Old Fort Road.
Watercourses (Lakes, Ponds, Streams, Rivers), and Wetlands	A drainage ditch/watercourse was observed on the south side of the TransCanada trail that flowed towards the west. Review of topographic and natural feature maps show a stream which flows past Old Fort Road on the north side of the bridge, towards the Wye River to the west of the APU Study Area. This stream was not observed from the roadway at the time of the site visit due dense forest and brush in the area.
Cross Property Easements	A Bell junction box was observed adjacent to the north of the Project Area: utility easements may extend parallel to Old Fort Road. An overhead hydro corridor extended from east to west to the south of the Project Area and parallel with the TransCanada trail that extends below the bridge and Project Area.
Railway Lines or Spurs	The present-day TransCanada trail below the Project Area was previously a CN rail line.

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Topic	Description
Mechanical Hoists	None identified; however an automotive wrecker was identified in the records review: it could not be confirmed if mechanical hoists were present at the location.
Slope Relief	In general, the ground surface within the Project Area and APU Study Area was undulating and sloped down towards the center of the bridge from the north, south and east. The alignment for the TransCanada trail likely involved past excavations through the area and sloped gently downwards towards the west.
Surface Drainage	Generally, surface water drainage at the Project Area is directed towards ditches/swales along the roadsides. Surface water runoff drains towards the creek in the north portion of the north embankment, and towards a drainage ditch adjacent to the south side of the recreational trail, and to the west and away from the Project Area.
Ground Cover	The Project Area was generally covered with asphalt pavement, with gravel shoulders. The surrounding APU Study Area was generally covered in dense brush and trees, with some landscaped lawns around the residential homes.
Surface Staining	None identified.
Stressed Vegetation	Vegetation generally appeared to be healthy at the time of the Site Reconnaissance.
Evidence of Fill Material	It is anticipated that fill materials were used to establish the existing grades for the road and comprise the bridge embankments.
Debris	None identified.
Pits	None identified.
Lagoons/Retention Ponds	None identified within the Project Area.
Standing Water	None identified within the Project Area.
Ditches	Ditches were present on the east and west sides of Old Fort Road, as well as on the south side of the TransCanada trail that extend beneath the Project Area.
Ecologically Sensitive Areas (wetland, floodplain)	None identified within the Project Area.
Utility and Sewage Works	Evidence of underground telecommunications lines (junction boxes on the north side of the bridge) was identified along Old Fort Road. Overhead hydro lines were present on the east and west sides of Old Fort Road with occasional pole-mounted transformers. Natural gas lines were not observed in the Project Area. Some residential houses along Old Fort Road were observed to have propane ASTs for heating. Sanitary sewers were not observed within the Project Area: private sewage systems are anticipated. Storm sewer catch basins were not observed within the Study Area. Evidence of watermains was not observed within the Study Area.
On-Road Parking	None identified.
Non-Domestic Waste	None identified.
Chemicals and Hazardous Substances	None identified, however the residential house located at 2837 Old Fort Road, adjacent to the Tree Nursery was a registered user of pesticides. The storage and use of the pesticides could not be identified on site from publicly accessible areas.
Odours	None identified.
Asbestos Containing Material	None identified, although asbestos may exist within the asphaltic concrete.
Ozone Depleting Substances	None identified.
Lead	None identified.
Mould	None identified.
Urea Formaldehyde Foam Insulation	None identified.

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Topic	Description
PCBs	Pole-mounted transformers were observed in the APU Study Area; however, it could not be confirmed if they contain PCBs. As previously noted, no evidence of staining was noted around the observed transformers.
Limitations	None identified.

6. REVIEW AND EVALUATION OF INFORMATION

(i) Current and Past Uses

Based on the historical records review and Site Reconnaissance, the Project Area has historically been used for community use (i.e., Old Fort Road) since at least 1930. The current and past uses of the Project Area are understood to include the following:

Table of Current and Past Uses (Refer to clause 16(2)(b), Schedule D, *O. Reg. 153/04*)				
Year	**Name of Owner**	**Description of Property Use**	**Property Use**	**Other Observations from Aerial Photographs, Fire Insurance Plans, etc.**
Roadway Alignment				
1930-present	The County of Simcoe	Roadway	Community use	The Project Area was a roadway in the 1930 Aerial Photograph.

(ii) Potentially Contaminating Activities

PCAs that were identified within or proximal to the Project Area were considered to directly result in corresponding Areas of Potential Environmental Concern (APECs), while PCAs identified in the APU Study Area were evaluated as possible contributors to an APEC on the basis of various criteria that included:

- Observations noted during the Site Reconnaissance;
- The proximity of the activity to the Project Area;
- The quantity and nature of substances associated with the PCA;
- The soil stratigraphy and groundwater conditions underlying the APU Study Area;
- The migration potential and preferential transport pathways that may exist between the PCA location and the Project Area;
- The diffusion and dispersion of the contaminants in groundwater and ponding of contaminants at the interface of low permeable soil; and
- The duration of operations (i.e., since at least circa 2000 when more strict environmental legislation and controls have been recognized).

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Regionally, the ground surface in the APU Study Area generally slopes down towards the center of the Project Area from the north, south and east, and the inferred regional groundwater flow direction is assumed to follow the surface topography west/northwesterly towards the Wye River and the Wye Marsh Conservation Area.

In general, the PCAs that were identified in the hydrogeological and topographical down-gradient locations in relation to the Project Area are not expected to impact the soil and groundwater within the Project Area since the migration and transport of contaminants in the subsurface surroundings are mainly governed by gravitational flow in the unsaturated zone, and the groundwater flow direction in the saturated zone.

In this regard, it is the opinion of the Qualified Person that PCAs, as defined in Table 2, Schedule D of O. Reg. 153/04 (as amended), which were identified through the Records Review and Site Reconnaissance and are not expected to contribute to an APEC in proposed excavation areas within the Project Area include: the presence of a waste generator at a residential property that is distant and up/cross gradient from the Project Area, an auto wrecker which is cross gradient from the Project Area, and a registered pesticide user at a tree farm which is off-set from the Project Area.

The PCAs identified within the Project Area and APU Study Area that are considered as PCA contributors to APECs within the Project Area are presented in the following table and on Drawing 35527-3. The Index Number column in the table is an identifier for the location of the respective PCAs as shown on Drawing 35527-3.

Index No.	Location	Approximate Distance (m) / Direction	PCA Item # (Table 2, Schedule D of Ontario Reg. 153/04, as amended)	Description	Source
1	Entire Project Area	Within Project Area	PCA #30 Importation of Fill Material of Unknown Quality.	Fill material likely used for road grading and exist within the approach embankments for the bridge construction.	Aerial Photos, Site Visit
2	Width of Project Area	Adjacent to Project Area	PCA#46 Rails Yards, Tracks, and Spurs.	A railway operated adjacent and perpendicular to the Project Area.	Aerial Photos, Site Visit

It is noted that in some northern regions, oils have historically been sprayed as a dust suppressant on roads that may have impacted the nearby soils / fill materials. It is not known if this possible activity pertains to the Project Area, and therefore, was not identified as a PCA although PHCs will be analyzed as part of the mandatory parameters.

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(iii) Areas of Potential Environmental Concern

Based on an evaluation of the above referenced criteria, the PCAs identified in the table in Section 7 (ii) were expected to result in one APEC where excavations are planned within the Project Area. The identified APEC is presented in the following table and on Drawing 35527-3. PCBs were not detected in two fill samples collected from the level of the railbed during a previous investigation, and therefore, were not identified as a Contaminant of Potential Concern. Notwithstanding and as discussed herein, select samples are recommended to include PCB analysis for due diligence purposes in relation to possible past spraying activities.

APEC #	Location of APEC within the Project Area	Potentially Contaminating Activity	Location of PCA Index No. (On-Site or Off-Site)	Contaminants of Potential Concern[1]
APEC #1	Entire Project Area	PCA #30 Importation of Fill Material of Unknown Quality. PCA#46 Rails Yards, Tracks, and Spurs.	On-Site (Index Nos. 1 and 2)	M&I PHCs/BTEX PAHs

1. *BTEX: Benzene, Toluene, Ethylbenzene, Xylenes*
PAHs: Polyaromatic Hydrocarbons
PHCs: Petroleum Hydrocarbons
M&I: Metals and Inorganics

(iv) APU Conceptual Site Model

The Project Area Conceptual Site Model (CSM) is based on the results of this Assessment of Past Uses Study and consists of the following drawings:

Drawing 35527-1 – Site Location Plan
Drawing 35527-2 – Site and Surrounding Land Uses
Drawing 35527-3 – Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs)

The drawings show the following key features of the Project Area and APU Study Area:

- No existing buildings or structures were identified within the Project Area. The approximate boundaries of the Project Area and the APU Study Area as shown on Drawings 35527-1 to 35527-3.
- The predominant land uses adjacent to the linear Project Area are shown on Drawing 35527-2.
- Roads, including names, within the APU Study Area are shown on Drawings 35527-2 and 35527-3.

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- Water Bodies located in the APU Study Area are shown on Drawings 35527-2 and 35527-3.

- Areas where potentially contaminating activities have occurred, including the presence of tanks, are shown on Drawing 35527-3.

- Areas of potential environmental concern resulting from the potentially contaminating activity contributors are shown on Drawing 35527-3.

The results of the document search and Site Reconnaissance that were completed and reviewed for this APU were used to provide the following details for the CSM.

- The Project Area consists of an approximately 155 m linear section of Old Fort Road that includes a bridge that extends over a former railway and current TransCanada trail. The Project Area extends out approximately equidistant from the central portion of the bridge, and up to approximately 12 m in width where excavations are planned within the existing approach embankments to accommodate the bridge replacement that has a lower profile since clearances are only required for the recreational trail and includes the existing culvert to the north of the bridge that will be replaced.

- No excavations are planned within the former railway ROW / current TransCanada recreational trail, or near the existing ditch/watercourse between the trail and the base of the south embankment.

- The 155 m portion of Old Fort Road comprised a two-lane asphalt paved roadway with gravel shoulders, and concrete bridge with an approximately 38 m span. The multiuse trail which crosses beneath the bridge and Project Area was also asphalt paved. Surface water was expected to drain towards grassed ditches that extended along the east and west sides of the road. Surface water runoff drains to the west via a drainage ditch adjacent to the south side of the recreational trail and away from the Project Area.

- Based on a review of information obtained through available records, the first developed use within the Project Area consisted of community use (i.e., roadway) since at least 1930.

- The intended property uses for the subject alignment will remain unchanged to complete the replacement of the existing bridge (i.e., community use).

- The Project Area is situated within a rural setting. Adjacent properties generally consisted of residential, agricultural and vacant, undeveloped wooded lands, and to a lesser extent, industrial (hydro corridor, salvage yard) properties.

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- No aboveground or underground storage tanks were observed within the Project Area, or in the APU Study Area from publicly accessible areas during the site Reconnaissance, other than multiple propane ASTs for heating that were observed at two residential properties.

- The Project Area is located within a topographic low with contours indicating the ground surface near the bridge is near Elevation 190 m above sea level (asl), with the grades rising to the south and north to approximate Elevations 210 m and 230 m asl, respectively. The grade of the recreational rail trail below the bridge was near approximate Elevation 187 m. In general, the ground surface within the Project Area and APU Study Area slopes down towards the center of the Project Area from the south, east and north sides, then generally slopes down towards the west.

- The nearest surface water body to the Project Area is a small watercourse that meanders from the northeast of the Project Area, meanders to the north side of the TransCanada trail and flows westerly towards the Wye River which is located approximately 1.1 km to the west. The Wye River flows in a northernly direction and discharges into the Tiffin Basin in Georgian Bay. Surface water is inferred to flow radially towards the Project Area from the north, south and east portions of the APU Study Area, and away from the Project Area to the west and towards the Wye Marsh. Further investigation would be required to determine the groundwater flow direction, however, based on the general ground surface topography and flow direction of the watercourse, the regional groundwater flow direction is inferred to be west/northwesterly towards the Wye River which flows into Georgian Bay.

- No Areas of Natural Significance were identified within the Project Area and the surrounding APU Study Area. The nearest Area of Natural Significance is the Wye Marsh National Wildlife Area which is approximately 480 m west and downgradient of the Project Area.

- The surficial geology within the Project Area consists of coarse textured foreshore and basinal glaciolacustrine deposits of sand and gravel, or sand and silt tills.

- A total of 20 well records were identified within the APU Study Area, including 12 water supply wells, seven monitoring wells / test holes, and one well with an unidentified well use reported. Available water well records and the results of the previous geotechnical investigation indicated that groundwater was encountered within the overburden at depths ranging from approximately 2 m to 25 m below grade.

- The bedrock geology consists of grey limestone of the Bob Caygeon Formation. The depth to bedrock reported in 10 well records ranged from 17 m to 34 m below grade.

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- Underground utilities included telecommunication lines to the north of the bridge but switched to overhead poles to the south of the bridge.

- Two PCAs were identified within the APU Study Area that were considered to contribute to one APEC within the Project Area. A description of the PCA, APEC and contaminants of potential concern are provided in the following table. The evaluation of the APEC considered the nature and location of the PCA (i.e., on-site and upgradient/proximal off-site locations, duration of activities, magnitude of releases and contaminant mobility) as well as the subsurface conditions and preferential pathways that may provide the potential for surface releases of substances from these activities to impact the subsurface soil and groundwater conditions beneath the Project Area.

Location	Approximate Distance (m) / Direction	PCA Item # (Table 2, Schedule D of Ontario Reg. 153/04, as amended)	PCA Description	APEC	Contaminants of Potential Concern
Entire Project Area	Within Project Area	PCA #30 Importation of Fill Material of Unknown Quality.	Fill material likely used for road grading and exist within the approach embankments for the bridge construction.	APEC 1	M&I, PHCs/BTEX PAHs
Width of Project Area	Adjacent to Project Area	PCA#46 Rails Yards, Tracks, and Spurs.	A railway operated adjacent and perpendicular to the Project Area.		

The conditions of the Project Area described in the CSM are based exclusively on observations at the time of the Site Reconnaissance between 10:30 am and 11:30 am on September 27, 2022. Thurber has assumed that the provided information from the obtained records is accurate and reliable. The uncertainties of this CSM included the absence of the Freedom of Information (FOI) search, Site Interviews and Chain of Title search. However, the Qualified Person considers that the available records reviewed as part of this APU provided the necessary information to meet the objectives of this Planning Document to support the proposed infrastructure improvements. In this regard, the Qualified Person is of the opinion that the omission of the FOI search, Site Interview and Chain of Title do not pose any information data gaps or impediments to the results of this APU Report.

7. CONCLUSIONS

Based on an evaluation of the information obtained during this investigation, the historical uses of the Project Area have primarily consisted of community (roadway) since at least 1930 when the right-of-way for Old Fort Road was present. No excavations are planned within the former railway ROW / current TransCanada recreational trail, or near the existing ditch/watercourse

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between the trail and the base of the south embankment. Therefore, the ROW for the former railway / current TransCanada trail was not considered a part of the Project Area.

The intended property use for the Project Area will remain unchanged (i.e., community use) for the infrastructure undertaking involving the replacement and lowering of the bridge.

The Project Area is situated within a rural setting. Adjacent properties generally consisted of residential, agricultural and vacant, undeveloped wooded lands, and to a lesser extent, industrial (hydro corridor, salvage yard) properties.

A review and evaluation of various records and environmental databases and Site Reconnaissance identified two PCAs that were considered to contribute to the following APEC within the Project Area:

- **APEC 1** is the entire Project Area which involves fill materials of unknown quality likely used to establish the existing road grades, and are present within the approach embankments for the bridge construction; and past railway operations adjacent to the Project Area.

In addition to the identified PCAs, impacts (i.e., electrical conductivity [EC] and sodium adsorption ratio [SAR]) related to the application of salts on the roads for vehicular safety should be considered for the Project Area.

The contaminants of potential concern associated with the PCA included metals and inorganics (that includes pH, EC and SAR), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs).

Although it is unknown if historical oil spraying occurred along this regional road, it is recommended that polychlorinated biphenyls (PCBs) also be analyzed, together with the PHCs, on select samples for due diligence.

Based on an evaluation of the information obtained during this APU, a subsurface investigation involving the completion of a Sampling and Analysis Plan (SAP) and Soil Characterization Report (SCR) in accordance with O. Reg. 406/19 would be required to confirm or refute the presence of the COPCs in the soil within proposed excavation depths that are planned within the identified APEC.

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Signatures

The findings and conclusions of this report have been reviewed by Peter Mann, P. Eng., the undersigned Qualified Person.

As the Qualified Person, I (Peter Mann, P. Eng.) confirm that I have supervised the work undertaken as part of this report and concur with its conclusions.

THURBER ENGINEERING LTD.

Michael Vaselenak, P. Eng.
Geological Engineer

Peter Mann, P. Eng., QP_{ESA}
Associate | Senior Geo-Environmental Engineer

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STATEMENT OF LIMITATIONS AND CONDITIONS

1. STANDARD OF CARE

This Report has been prepared in accordance with generally accepted engineering or environmental consulting practices in the applicable jurisdiction. No other warranty, expressed or implied, is intended or made.

2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report, which is of a summary nature and is not intended to stand alone without reference to the instructions given to Thurber by the Client, communications between Thurber and the Client, and any other reports, proposals or documents prepared by Thurber for the Client relative to the specific site described herein, all of which together constitute the Report.

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The Report has been prepared for the specific site, development, design objectives and purposes that were described to Thurber by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the Report, subject to the limitations provided herein, are only valid to the extent that the Report expressly addresses proposed development, design objectives and purposes, and then only to the extent that there has been no material alteration to or variation from any of the said descriptions provided to Thurber, unless Thurber is specifically requested by the Client to review and revise the Report in light of such alteration or variation.

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5. INTERPRETATION OF THE REPORT

a) Nature and Exactness of Soil and Contaminant Description: Classification and identification of soils, rocks, geological units, contaminant materials and quantities have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature. Comprehensive sampling and testing programs implemented with the appropriate equipment by experienced personnel may fail to locate some conditions. All investigations utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and the Client and all other persons making use of such documents or records with our express written consent should be aware of this risk and the Report is delivered subject to the express condition that such risk is accepted by the Client and such other persons. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. If special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

b) Reliance on Provided Information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to Thurber. Thurber has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, Thurber does not accept responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of the Client or other persons providing information relied on by Thurber. Thurber is entitled to rely on such representations, information and instructions and is not required to carry out investigations to determine the truth or accuracy of such representations, information and instructions.

c) Design Services: The Report may form part of design and construction documents for information purposes even though it may have been issued prior to final design being completed. Thurber should be retained to review final design, project plans and related documents prior to construction to confirm that they are consistent with the intent of the Report. Any differences that may exist between the Report's recommendations and the final design detailed in the contract documents should be reported to Thurber immediately so that Thurber can address potential conflicts.

d) Construction Services: During construction Thurber should be retained to provide field reviews. Field reviews consist of performing sufficient and timely observations of encountered conditions in order to confirm and document that the site conditions do not materially differ from those interpreted conditions considered in the preparation of the report. Adequate field reviews are necessary for Thurber to provide letters of assurance, in accordance with the requirements of many regulatory authorities.

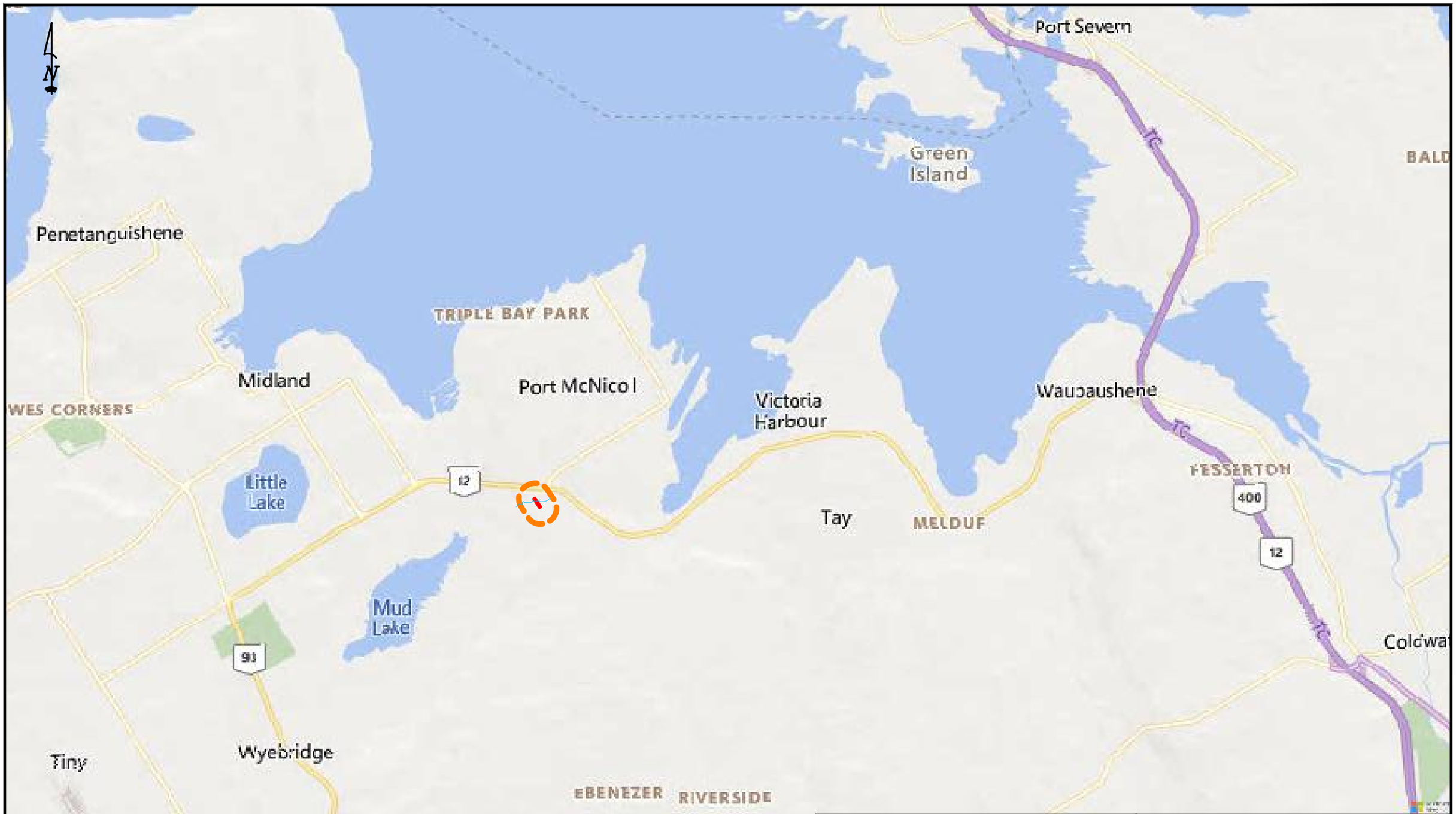
6. RELEASE OF POLLUTANTS OR HAZARDOUS SUBSTANCES

Geotechnical engineering and environmental consulting projects often have the potential to encounter pollutants or hazardous substances and the potential to cause the escape, release or dispersal of those substances. Thurber shall have no liability to the Client under any circumstances, for the escape, release or dispersal of pollutants or hazardous substances, unless such pollutants or hazardous substances have been specifically and accurately identified to Thurber by the Client prior to the commencement of Thurber's professional services.

7. INDEPENDENT JUDGEMENTS OF CLIENT

The information, interpretations and conclusions in the Report are based on Thurber's interpretation of conditions revealed through limited investigation conducted within a defined scope of services. Thurber does not accept responsibility for independent conclusions, interpretations, interpolations and/or decisions of the Client, or others who may come into possession of the Report, or any part thereof, which may be based on information contained in the Report. This restriction of liability includes but is not limited to decisions made to develop, purchase or sell land.

DRAWINGS



LEGEND:

- APPROXIMATE PROJECT AREA
- APPROXIMATE STUDY AREA (250m Buffer)

LEA CONSULTING LTD.

ASSESSMENT OF PAST USES REPORT
OLD FORT ROAD
MIDLAND, ONTARIO

SITE LOCATION PLAN

JOB# 35527

THURBER ENGINEERING LTD.

ENGINEER :	DRAWN :	APPROVED :
MV	MFA	PM
DATE :	SCALE :	DRAWING No.
NOVEMBER 2022	1:60,000	35527-1

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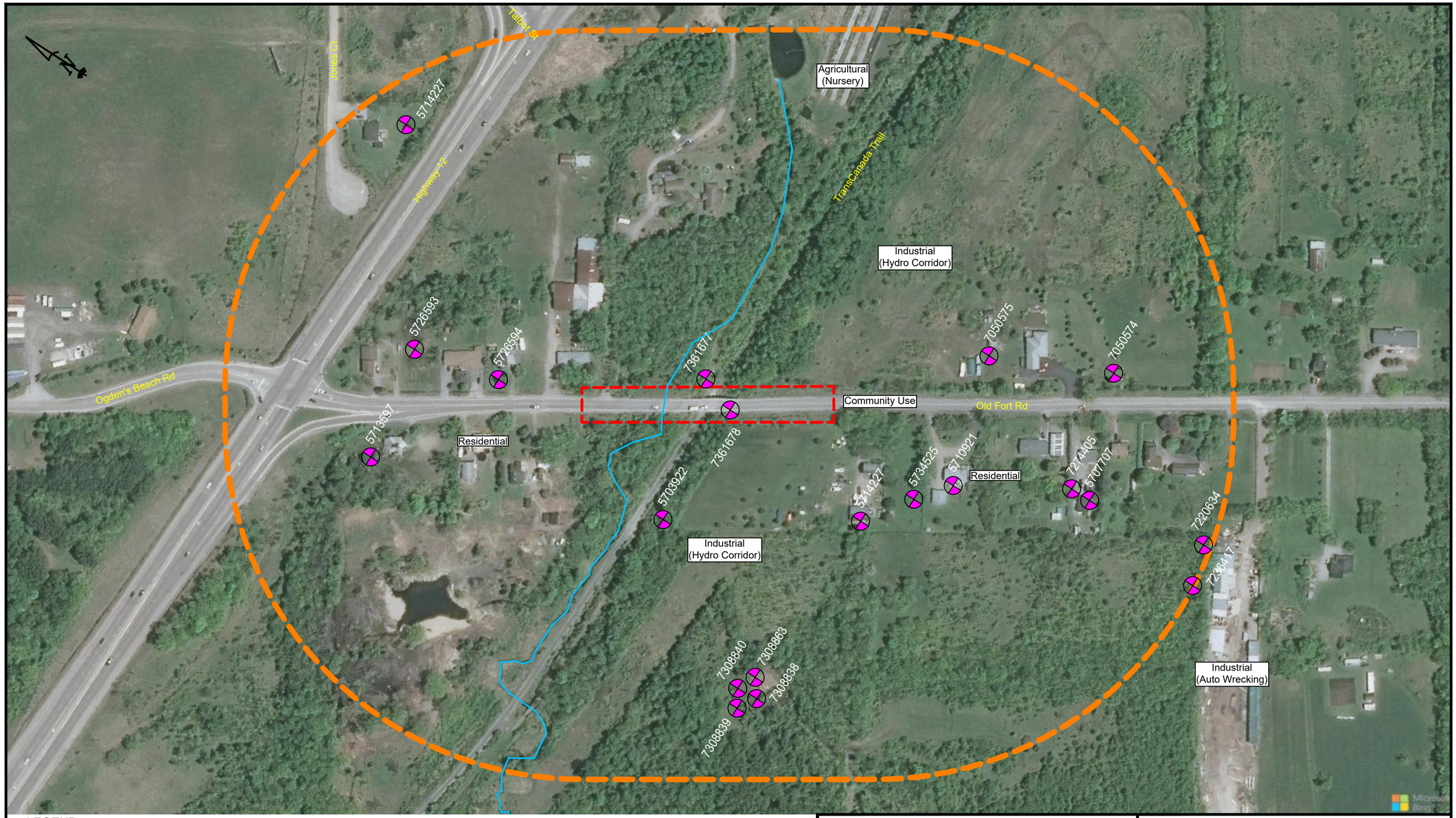

LEGEND:

- APPROXIMATE PROJECT AREA
- APPROXIMATE STUDY AREA (250m Buffer)
- WELL LOCATION

LEA CONSULTING LTD.

ASSESSMENT OF PAST USES REPORT
OLD FORT ROAD
MIDLAND, ONTARIO

PROJECT AREA AND SURROUNDING LAND USES

JOB# 35527

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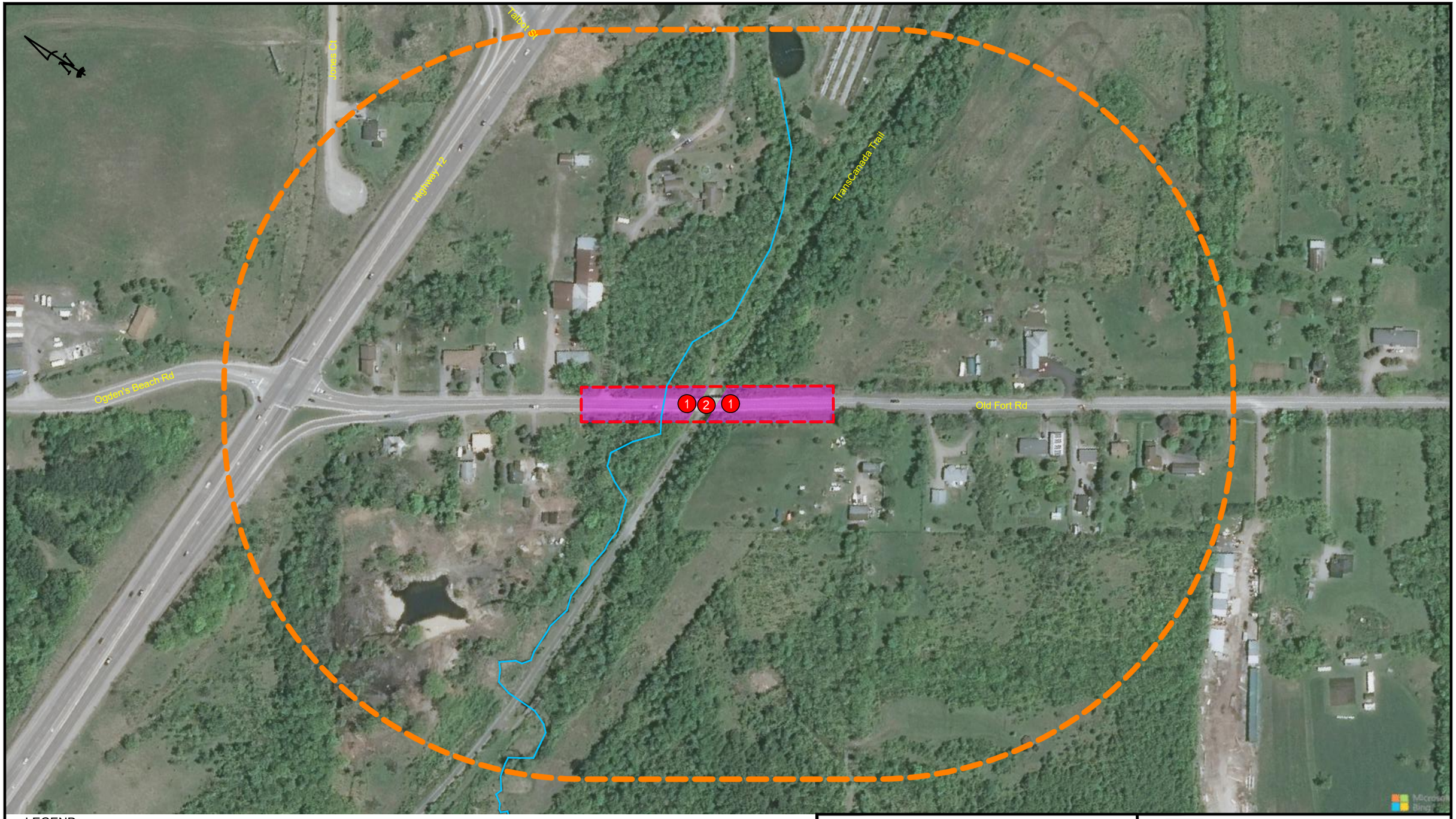

LEGEND:

- APPROXIMATE PROJECT AREA
- APPROXIMATE STUDY AREA (250m Buffer)
- APEC 1
- 1 POTENTIALLY CONTAMINATING ACTIVITY (INDEX NUMBER REFERS TO THE PCAs LISTED IN TABLE IN SECTION 7 (ii) OF THE REPORT)

LEA CONSULTING LTD.

ASSESSMENT OF PAST USES REPORT
OLD FORT ROAD
MIDLAND, ONTARIO

POTENTIALLY CONTAMINATING ACTIVITIES AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

JOB# 35527

THURBER ENGINEERING LTD.

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APPENDIX A

Fire Insurance Report

opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Midori

Site Address:

Old Fort Road, Midland, ON

Project No:

22091500404

Opta Order ID:

114319

Requested by:

Eleanor Goolab
ERIS

Date Completed:

9/27/2022 3:32:46 PM

Project Name: 35527 Excess Soils Old Fort Road

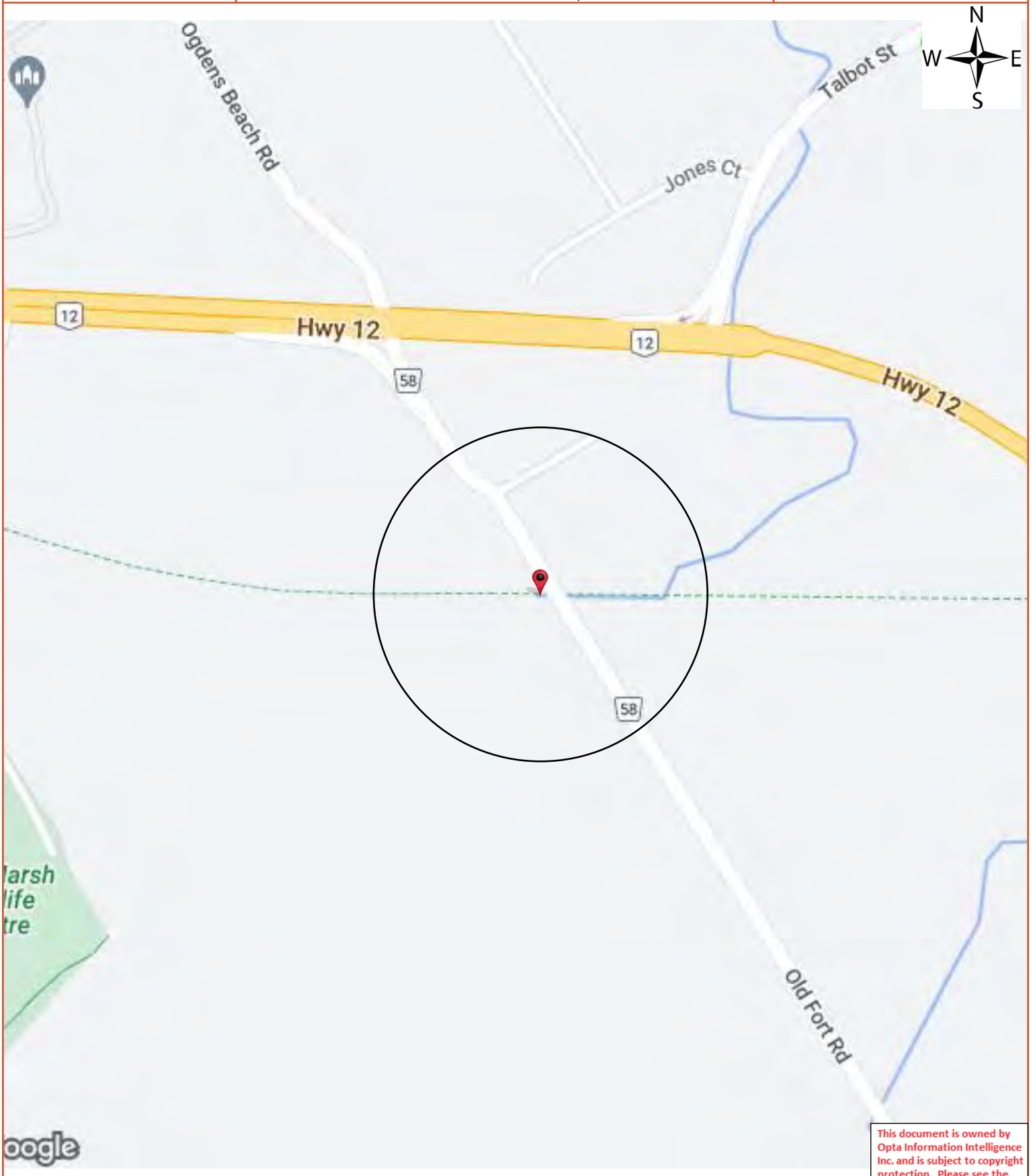
Project #: 22091500404
P.O. #: 35527

ENVIROSCAN Report

Search Area: Old Fort Road, Midland, ON

Requested by:
Eleanor Goolab
Date Completed: 09/27/2022 15:32:46

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project Name: 35527 Excess Soils Old Fort Road

Project #: 22091500404
P.O. #: 35527

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab
Date Completed: 09/27/2022 15:32:46

OPTA INFORMATION INTELLIGENCE

No Records Found

Project Name: 35527 Excess Soils Old Fort Road

Project #: 22091500404
P.O. #: 35527

Selected Fire Insurance Plans and Inspection Reports

Requested by:
Eleanor Goolab
Date Completed: 09/27/2022 15:32:46

OPTA INFORMATION INTELLIGENCE

Search Fee	**$50.00**

Selected Fire Insurance Plans

None

Selected Inspection Reports

None

Total	**$50.00**

Project Name: 35527 Excess Soils Old Fort Road

Project #: 22091500404
P.O. #: 35527

Excluded Fire Insurance Plans and Inspection Reports

Requested by:
Eleanor Goolab
Date Completed: 09/27/2022 15:32:46

OPTA INFORMATION INTELLIGENCE

Excluded Fire Insurance Plans

None

Excluded Inspection Reports

None

APPENDIX B
City Directory

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *Old Fort Road, Midland, ON*
Report Type: *City Directory*
Order No: *22091500391*
Information Source: *Polk's Orillia-Midland & Area, ON*
Date Completed: *September 26, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

City Directory Information Source
Polk's Orillia-Midland & Area, ON

PROJECT NUMBER: 22091500391	
Site Address:	Old Fort Road, Midland, ON
Year: 2000	
Site Listing:	-No Civic Site Identified
Adjacent Properties:	
Old Fort Road (2760-2865)	-All Residential
Jones Court (All)	-Street Not Listed
Ogdens Beach Road (2900-2910)	-No Listings Within Requested Radius
ON-12	-No Civic Address Within Requested Radius

PROJECT NUMBER: 22091500391	
Site Address:	Old Fort Road, Midland, ON
Year: 1998	

Site Listing:	-No Civic Site Identified
Adjacent Properties:	
Old Fort Road (2760-2865)	2774-Residential
Jones Court (All)	-Street Not Listed
Ogdens Beach Road (2900-2910)	-No Listings Within Requested Radius
ON-12	-No Civic Address Within Requested Radius

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

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

Midland, ON, is listed from 1998 to 2000 within the city directory archives*

APPENDIX C

EcoLog ERIS Report

DATABASE REPORT

Project Property:	*35527 Excess Soils - Old Fort Road* *Old Fort Road* *Midland ON*
Project No:	*35527*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*22091500391*
Requested by:	*Thurber Engineering Ltd-Toronto*
Date Completed:	*September 20, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*35527 Excess Soils - Old Fort Road* *Old Fort Road Midland ON*
Project No:	*35527*

Order Information:

Order No:	*22091500391*
Date Requested:	*September 15, 2022*
Requested by:	*Thurber Engineering Ltd-Toronto*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*Aerials - National Collection*
City Directory Search	*CD - Subject Site plus 250m Radius*
ERIS Xplorer	*ERIS Xplorer*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	*Abandoned Aggregate Inventory*	*Y*	*0*	*0*	*0*
AGR	*Aggregate Inventory*	*Y*	*0*	*0*	*0*
AMIS	*Abandoned Mine Information System*	*Y*	*0*	*0*	*0*
ANDR	*Anderson's Waste Disposal Sites*	*Y*	*0*	*0*	*0*
AST	*Aboveground Storage Tanks*	*Y*	*0*	*0*	*0*
AUWR	*Automobile Wrecking & Supplies*	*Y*	*0*	*1*	*1*
BORE	*Borehole*	*Y*	*0*	*0*	*0*
CA	*Certificates of Approval*	*Y*	*0*	*0*	*0*
CDRY	*Dry Cleaning Facilities*	*Y*	*0*	*0*	*0*
CFOT	*Commercial Fuel Oil Tanks*	*Y*	*0*	*0*	*0*
CHEM	*Chemical Manufacturers and Distributors*	*Y*	*0*	*0*	*0*
CHM	*Chemical Register*	*Y*	*0*	*0*	*0*
CNG	*Compressed Natural Gas Stations*	*Y*	*0*	*0*	*0*
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	*Y*	*0*	*0*	*0*
CONV	*Compliance and Convictions*	*Y*	*0*	*0*	*0*
CPU	*Certificates of Property Use*	*Y*	*0*	*0*	*0*
DRL	*Drill Hole Database*	*Y*	*0*	*0*	*0*
DTNK	*Delisted Fuel Tanks*	*Y*	*0*	*0*	*0*
EASR	*Environmental Activity and Sector Registry*	*Y*	*0*	*0*	*0*
EBR	*Environmental Registry*	*Y*	*0*	*0*	*0*
ECA	*Environmental Compliance Approval*	*Y*	*0*	*0*	*0*
EEM	*Environmental Effects Monitoring*	*Y*	*0*	*0*	*0*
EHS	*ERIS Historical Searches*	*Y*	*0*	*0*	*0*
EIIS	*Environmental Issues Inventory System*	*Y*	*0*	*0*	*0*
EMHE	*Emergency Management Historical Event*	*Y*	*0*	*0*	*0*
EPAR	*Environmental Penalty Annual Report*	*Y*	*0*	*0*	*0*
EXP	*List of Expired Fuels Safety Facilities*	*Y*	*0*	*0*	*0*
FCON	*Federal Convictions*	*Y*	*0*	*0*	*0*
FCS	*Contaminated Sites on Federal Land*	*Y*	*0*	*0*	*0*
FOFT	*Fisheries & Oceans Fuel Tanks*	*Y*	*0*	*0*	*0*
FRST	*Federal Identification Registry for Storage Tank Systems (FIRSTS)*	*Y*	*0*	*0*	*0*
FST	*Fuel Storage Tank*	*Y*	*0*	*0*	*0*
FSTH	*Fuel Storage Tank - Historic*	*Y*	*0*	*0*	*0*
GEN	*Ontario Regulation 347 Waste Generators Summary*	*Y*	*0*	*1*	*1*
GHG	*Greenhouse Gas Emissions from Large Facilities*	*Y*	*0*	*0*	*0*
HINC	*TSSA Historic Incidents*	*Y*	*0*	*0*	*0*

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	2	18	20
	Total:		2	21	23

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		OLD FORT ROAD lot 15 con 4 Midland ON ***Well ID:*** 7361678	ESE/0.0	3.80	15
2	WWIS		OLD FORTE ROAD lot 15 con 4 Midland ON ***Well ID:*** 7361677	NNW/0.0	-3.30	17

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	WWIS		lot 15 con 3 ON ***Well ID:*** 5714227	S/55.1	9.39	19
4	WWIS		lot 15 con 3 ON ***Well ID:*** 5734525	S/55.4	10.56	24
5	WWIS		lot 15 con 3 ON ***Well ID:*** 5703922	W/57.6	-2.64	28
6	WWIS		lot 15 con 3 ON ***Well ID:*** 5726594	NNW/61.6	1.49	31
7	WWIS		lot 15 con 3 ON ***Well ID:*** 5710921	SSE/68.0	12.97	33
8	WWIS		lot 14 con 4 ON ***Well ID:*** 7050575	SE/84.6	13.20	36
9	PES	KLEAN CUT	2837 OLDFORT ROAD, R.R. #1 651 MIDLAND ON L4R 4P4	NNE/99.0	2.95	44
10	WWIS		lot 15 con 3 ON ***Well ID:*** 5726593	NNW/111.3	3.00	44
11	WWIS		lot 15 con 3 ON ***Well ID:*** 5713597	NW/140.9	4.12	48
12	WWIS		2768 OLD FORT RD Midland ON ***Well ID:*** 7274405	SSE/141.5	19.76	52
13	WWIS		lot 15 con 3 ON ***Well ID:*** 5707707	SSE/154.9	19.76	55
14	WWIS		lot 14 con 4 ON	SE/164.9	13.52	59

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7050574			
15	WWIS		16160 HWY 12 EAST. MIDLAND ON ***Well ID:*** 7308863	WSW/169.0	7.34	62
16	WWIS		16160 HWY 12, EAST MIDLAND ON ***Well ID:*** 7308838	WSW/176.9	5.27	65
17	WWIS		16160 HWY 12, EAST MIDLAND ON ***Well ID:*** 7308840	WSW/182.0	5.27	68
18	WWIS		16160 HWY 12, EASY MIDLAND ON ***Well ID:*** 7308839	WSW/190.5	5.27	71
19	WWIS		lot 15 con 4 ON ***Well ID:*** 5707646	N/210.8	7.64	73
20	GEN	Freshet Creek	2752 Old Fort Road Midland ON L4R 4K3	SE/217.4	19.08	76
21	WWIS		16160 HIGHWAY 12 Midland ON ***Well ID:*** 7236417	SSE/243.7	19.85	76
22	AUWR	CONEY ISLAND AUTO WRECKERS	2738 OLD FORT RD MIDLAND ON L4R 4K3	SSE/244.8	20.45	78
23	WWIS		lot 14 con 3 ON ***Well ID:*** 7220634	SSE/245.4	21.03	78

Executive Summary: Summary By Data Source

AUWR - Automobile Wrecking & Supplies

A search of the AUWR database, dated 1999-May 31, 2022 has found that there are 1 AUWR site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CONEY ISLAND AUTO WRECKERS	2738 OLD FORT RD MIDLAND ON L4R 4K3	244.8	22

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2022 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Freshet Creek	2752 Old Fort Road Midland ON L4R 4K3	217.4	20

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Jul 31, 2022 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
KLEAN CUT	2837 OLDFORT ROAD, R.R. #1 651 MIDLAND ON L4R 4P4	99.0	9

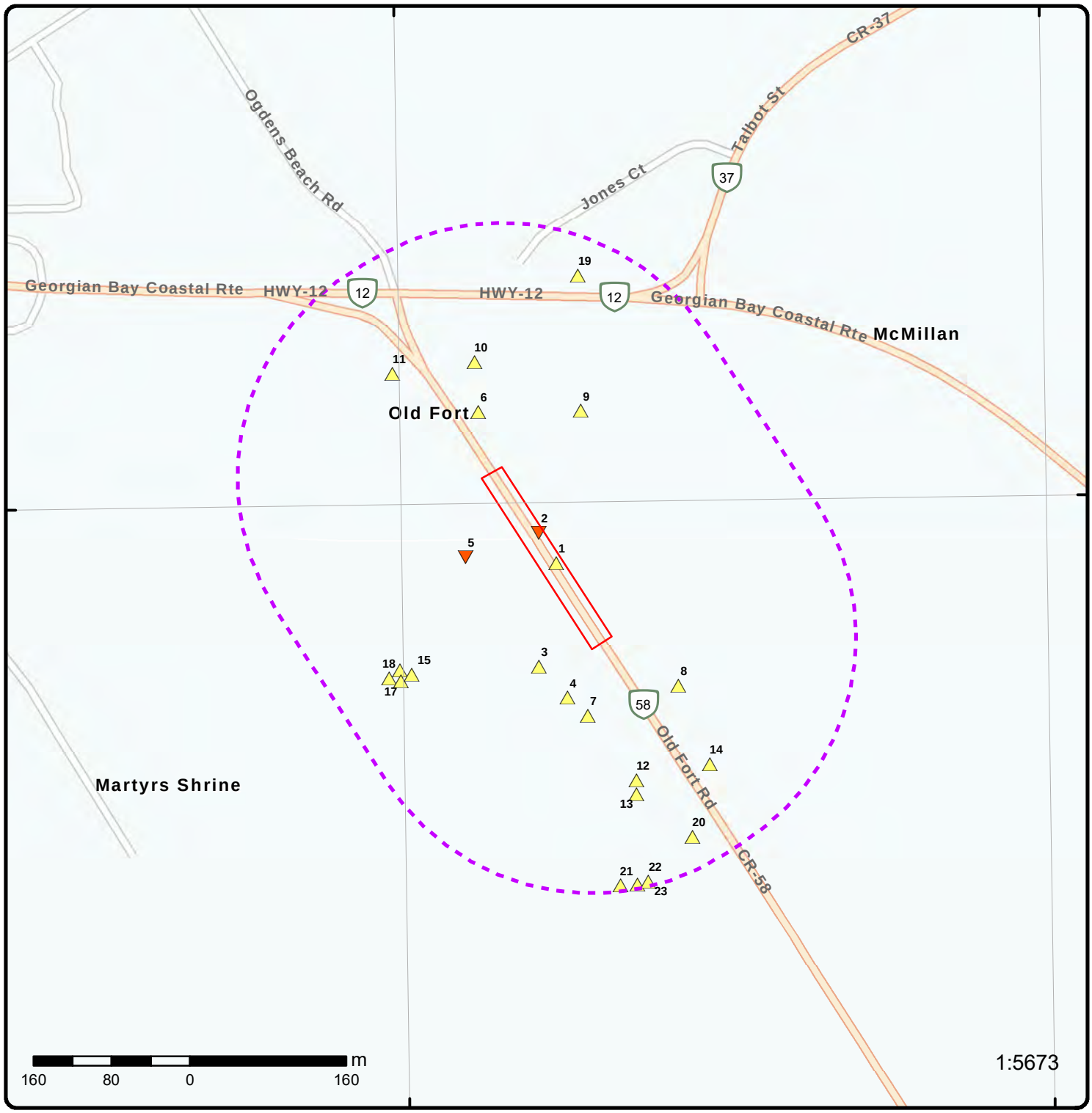
WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30 2022 has found that there are 20 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	OLD FORT ROAD lot 15 con 4 Midland ON	0.0	1

Site	Address	Distance (m)	Map Key
	Well ID: 7361678		
	OLD FORTE ROAD lot 15 con 4 Midland ON ***Well ID:*** 7361677	0.0	2
	lot 15 con 3 ON ***Well ID:*** 5714227	55.1	3
	lot 15 con 3 ON ***Well ID:*** 5734525	55.4	4
	lot 15 con 3 ON ***Well ID:*** 5703922	57.6	5
	lot 15 con 3 ON ***Well ID:*** 5726594	61.6	6
	lot 15 con 3 ON ***Well ID:*** 5710921	68.0	7
	lot 14 con 4 ON ***Well ID:*** 7050575	84.6	8
	lot 15 con 3 ON ***Well ID:*** 5726593	111.3	10
	lot 15 con 3 ON ***Well ID:*** 5713597	140.9	11
	2768 OLD FORT RD Midland ON ***Well ID:*** 7274405	141.5	12
	lot 15 con 3 ON ***Well ID:*** 5707707	154.9	13

Site	Address	Distance (m)	Map Key
	lot 14 con 4 ON ***Well ID:*** 7050574	164.9	14
	16160 HWY 12 EAST. MIDLAND ON ***Well ID:*** 7308863	169.0	15
	16160 HWY 12, EAST MIDLAND ON ***Well ID:*** 7308838	176.9	16
	16160 HWY 12, EAST MIDLAND ON ***Well ID:*** 7308840	182.0	17
	16160 HWY 12, EASY MIDLAND ON ***Well ID:*** 7308839	190.5	18
	lot 15 con 4 ON ***Well ID:*** 5707646	210.8	19
	16160 HIGHWAY 12 Midland ON ***Well ID:*** 7236417	243.7	21
	lot 14 con 3 ON ***Well ID:*** 7220634	245.4	23



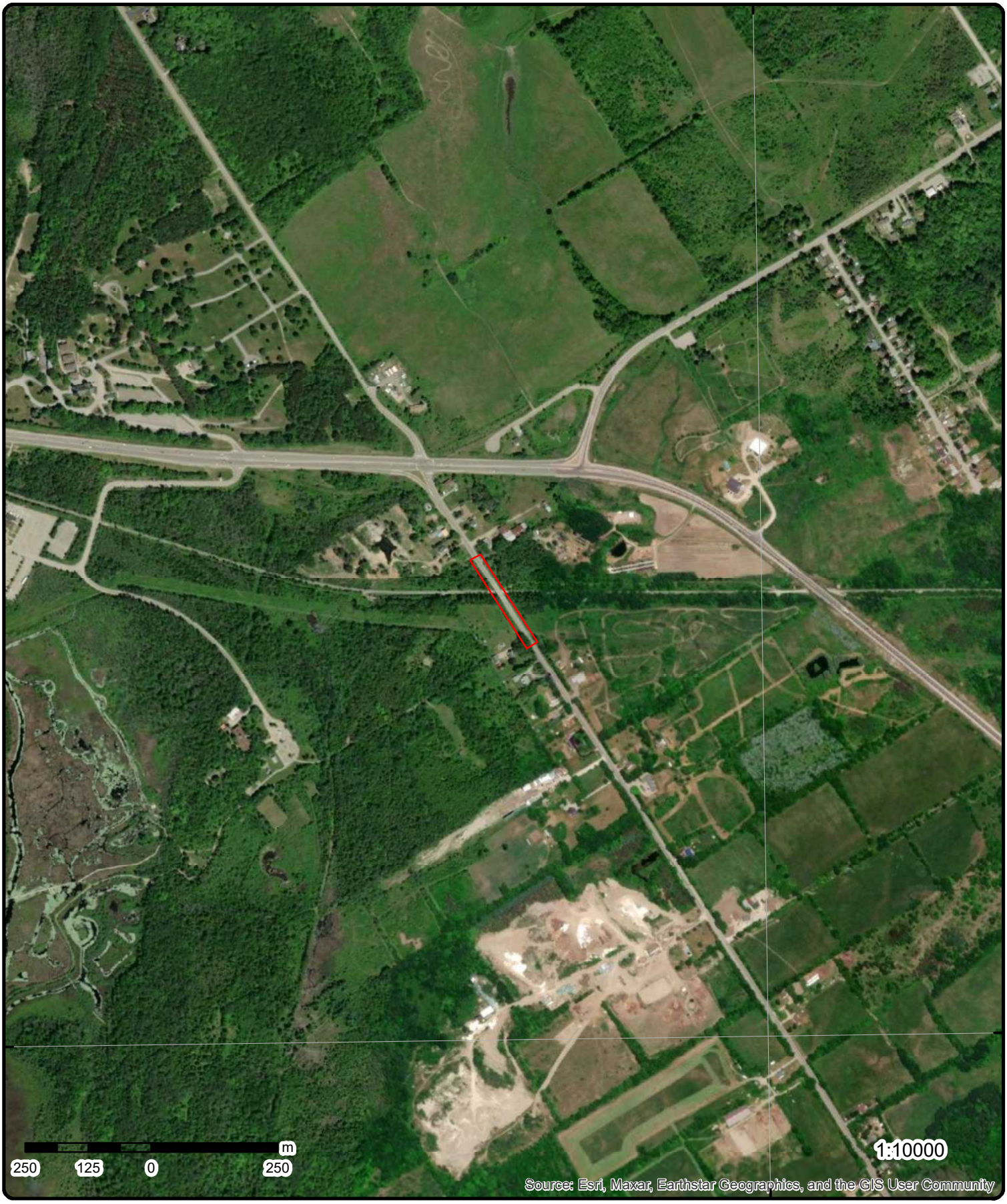
Map: 0.25 Kilometer Radius

Order Number: 22091500391

Address: Old Fort Road, Midland, ON

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

79°49'30"W



44°43'30"N

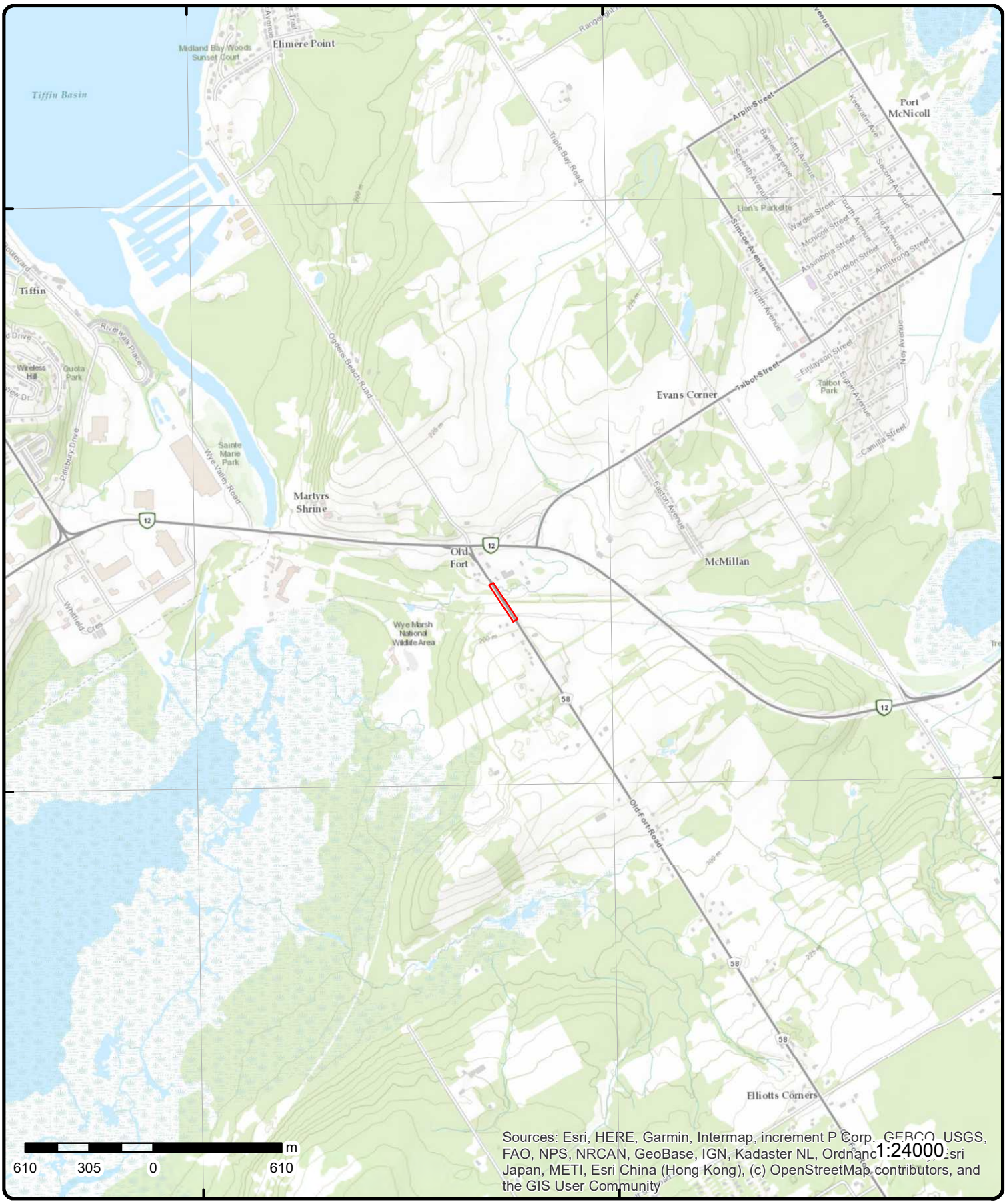
Aerial

Year: 2020

Order Number: 22091500391

Address: Old Fort Road, Midland, ON

Source: ESRI World Imagery



Topographic Map

Address: Old Fort Road, ON

Source: ESRI World Topographic Map

Order Number: 22091500391

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ESE/0.0	194.7 / 3.80	OLD FORT ROAD lot 15 con 4 Midland ON	WWIS

Well ID:	7361678	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	06-Jul-2020 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z339053	**Contractor:**	7201
Tag:	A278296	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	04
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	1008339932	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592532.00
Code OB Desc:		**North83:**	4953930.00
Open Hole:		**Org CS:**	dms83
Cluster Kind:		**UTMRC:**	5
Date Completed:	30-May-2020 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	dms
Loc Method Desc:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008366033
Layer:	1
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES

Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008366040
Layer: 1
Plug From: 30.0
Plug To: 18.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008366041
Layer: 2
Plug From: 18.0
Plug To: 0.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008366039
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008366032
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008366036
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 20.0
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008366037
Layer: 1
Slot:
Screen Top Depth: 30.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

Screen Diameter: 2.0

Water Details

Water ID: 1008366035
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008366034
Diameter: 8.25
Depth From: 0.0
Depth To: 30.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Links

Bore Hole ID: 1008339932
Depth M: 9.144
Year Completed: 2020
Well Completed Dt: 2020/05/30
Audit No: Z339053
Tag No: A278296
Contractor: 7201
Path: 736\7361678.pdf
Latitude: 44.7327752150075
Longitude: -79.8313840838855

---

2 | **1 of 1** | **NNW/0.0** | **187.6 / -3.30** | **OLD FORTE ROAD lot 15 con 4 Midland ON** | **WWIS**

Well ID: 7361677
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z339054
Tag: A284735
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: TAY TOWNSHIP
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 06-Jul-2020 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7201
Form Version: 7
Owner:
County: SIMCOE
Lot: 015
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1008339929
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Elevation:
Elevrc:
Zone: 17
East83: 592514.00
North83: 4953961.00
Org CS: dms83
UTMRC: 5

Date Completed: 28-May-2020 00:00:00
Remarks:
Loc Method Desc:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: dms

Overburden and Bedrock Materials Interval

Formation ID: 1008366023
Layer: 1
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 0.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008366031
Layer: 2
Plug From: 23.0
Plug To: 0.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008366030
Layer: 1
Plug From: 35.0
Plug To: 23.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008366029
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008366022
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1008366026
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	25.0
Depth To:	0.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008366027
Layer:	1
Slot:	
Screen Top Depth:	35.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Water Details

Water ID:	1008366025
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008366024
Diameter:	8.25
Depth From:	0.0
Depth To:	35.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Links

Bore Hole ID:	1008339929	**Tag No:**	A284735
Depth M:	10.668	**Contractor:**	7201
Year Completed:	2020	**Path:**	736\7361677.pdf
Well Completed Dt:	2020/05/28	**Latitude:**	44.7330565554401
Audit No:	Z339054	**Longitude:**	-79.8316057457836

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3 | ***1 of 1*** | ***S/55.1*** | ***200.3 / 9.39*** | ***lot 15 con 3 ON*** | ***WWIS***

Well ID:	5714227	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	07-Feb-1968 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4816
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	

Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/571\5714227.pdf

Additional Detail(s) (Map)

Well Completed Date:	1968/01/20
Year Completed:	1968
Depth (m):	83.5152
Latitude:	44.7318234515071
Longitude:	-79.8316267879039
Path:	571\5714227.pdf

Bore Hole Information

Bore Hole ID:	10391960	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592514.30
Code OB Desc:		**North83:**	4953824.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	20-Jan-1968 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932314957
Layer:	6
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	106.0
Formation End Depth:	167.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 932314960

Layer: 9
Color:
General Color:
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 203.0
Formation End Depth: 274.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932314956
Layer: 5
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 71
Mat2 Desc: FRACTURED
Mat3:
Mat3 Desc:
Formation Top Depth: 104.0
Formation End Depth: 106.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932314955
Layer: 4
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 84
Mat2 Desc: SILTY
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 96.0
Formation End Depth: 104.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932314952
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3: 81
Mat3 Desc: SANDY
Formation Top Depth: 0.0
Formation End Depth: 38.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	932314959
Layer:	8
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	192.0
Formation End Depth:	203.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932314958
Layer:	7
Color:	7
General Color:	RED
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	167.0
Formation End Depth:	192.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932314953
Layer:	2
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	38.0
Formation End Depth:	58.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932314954
Layer:	3
Color:	
General Color:	
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 58.0
Formation End Depth: 96.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 965714227
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10940530
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930642166
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 106.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 995714227
Pump Set At:
Static Level: 71.0
Final Level After Pumping: 248.0
Recommended Pump Depth: 260.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 24
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933874075
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 274.0
Water Found Depth UOM: ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Links

Bore Hole ID:	10391960	***Tag No:***	
Depth M:	83.5152	***Contractor:***	4816
Year Completed:	1968	***Path:***	571\5714227.pdf
Well Completed Dt:	1968/01/20	***Latitude:***	44.7318234515071
Audit No:		***Longitude:***	-79.8316267879039

4	1 of 1	S/55.4	201.4 / 10.56	lot 15 con 3 ON	WWIS

Well ID:	5734525	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	21-Sep-1999 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	74330	***Contractor:***	7107
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	015
Depth to Bedrock:		***Concession:***	03
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/573\5734525.pdf

Additional Detail(s) (Map)

Well Completed Date:	1999/08/18
Year Completed:	1999
Depth (m):	74.676
Latitude:	44.7295694356163
Longitude:	-79.840120705921
Path:	573\5734525.pdf

Bore Hole Information

Bore Hole ID:	10412055	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	592543.31
Code OB Desc:		***North83:***	4953792.50
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	18-Aug-1999 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	map
Loc Method Desc:	YPD: Map ; OBM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932409112
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	46.0
Formation End Depth:	54.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932409114
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	92.0
Formation End Depth:	168.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932409113
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	05
Mat3 Desc:	CLAY
Formation Top Depth:	54.0
Formation End Depth:	92.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932409115
Layer:	5
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE
Mat2:	85

Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	168.0
Formation End Depth:	245.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932409111
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	0.0
Formation End Depth:	46.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933197045
Layer:	1
Plug From:	14.0
Plug To:	5.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965734525
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10960625
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930667365
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	92.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 995734525
Pump Set At:
Static Level: 59.0
Final Level After Pumping: 156.0
Recommended Pump Depth: 230.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 15
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934588938
Test Type: Recovery
Test Duration: 30
Test Level: 66.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935095656
Test Type: Recovery
Test Duration: 60
Test Level: 59.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934315619
Test Type: Recovery
Test Duration: 15
Test Level: 104.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934845425
Test Type: Recovery
Test Duration: 45
Test Level: 59.0
Test Level UOM: ft

Water Details

Water ID: 933894662
Layer: 1
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 239.0
Water Found Depth UOM: ft

Links

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID:	10412055	**Tag No:**	
Depth M:	74.676	**Contractor:**	7107
Year Completed:	1999	**Path:**	573\5734525.pdf
Well Completed Dt:	1999/08/18	**Latitude:**	44.7315361881404
Audit No:	74330	**Longitude:**	-79.8312662041847

5 | **1 of 1** | **W/57.6** | **188.2 / -2.64** | **lot 15 con 3 ON** | **WWIS**

Well ID:	5703922	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	01-May-1967 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4715
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/570\5703922.pdf

Additional Detail(s) (Map)

Well Completed Date:	1967/02/11
Year Completed:	1967
Depth (m):	31.3944
Latitude:	44.7328411904457
Longitude:	-79.8325534922659
Path:	570\5703922.pdf

Bore Hole Information

Bore Hole ID:	10381812	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592439.30
Code OB Desc:		**North83:**	4953936.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	11-Feb-1967 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932271300
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	0.0
Formation End Depth:	84.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932271301
Layer:	2
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	11
Mat3 Desc:	GRAVEL
Formation Top Depth:	84.0
Formation End Depth:	101.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932271302
Layer:	3
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	09
Mat2 Desc:	MEDIUM SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	101.0
Formation End Depth:	103.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965703922
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10930382
Casing No:	1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930630471
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	99.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933364316
Layer:	1
Slot:	010
Screen Top Depth:	99.0
Screen End Depth:	102.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	995703922
Pump Set At:	
Static Level:	27.0
Final Level After Pumping:	70.0
Recommended Pump Depth:	90.0
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933863279
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	101.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10381812	***Tag No:***	
Depth M:	31.3944	***Contractor:***	4715
Year Completed:	1967	***Path:***	570\5703922.pdf
Well Completed Dt:	1967/02/11	***Latitude:***	44.7328411904457

Audit No: **Longitude:** -79.8325534922659

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6 **1 of 1** **NNW/61.6** **192.4 / 1.49** **lot 15 con 3 ON** **WWIS**

Well ID: 5726594
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Abandoned-Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: TAY TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 18-May-1990 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 2652
Form Version: 1
Owner:
County: SIMCOE
Lot: 015
Concession: 03
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 1990/04/18
Year Completed: 1990
Depth (m): 41.7576
Latitude: 44.7341805831594
Longitude: -79.8323623565262
Path:

Bore Hole Information

Bore Hole ID: 10404179
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 18-Apr-1990 00:00:00
Remarks:
Loc Method Desc: from gps
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 592452.30
North83: 4954085.00
Org CS:
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: gps

Overburden and Bedrock Materials Interval

Formation ID: 932370014
Layer: 4
Color: 2

General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	58.0
Formation End Depth:	137.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932370012
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932370013
Layer:	3
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	14.0
Formation End Depth:	58.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932370011
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965726594
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	10952749
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930657583
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	62.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Water Details

Water ID:	933886526
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	92.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10404179	***Tag No:***	
Depth M:	41.7576	***Contractor:***	2652
Year Completed:	1990	***Path:***	
Well Completed Dt:	1990/04/18	***Latitude:***	44.7341805831594
Audit No:		***Longitude:***	-79.8323623565262

7 ***1 of 1*** ***SSE/68.0*** ***203.8 / 12.97*** ***lot 15 con 3 ON*** ***WWIS***

Well ID:	5710921	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	06-May-1974 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	4816
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	015
Depth to Bedrock:		***Concession:***	03
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/571\5710921.pdf

Additional Detail(s) (Map)

Well Completed Date:	1973/11/22
Year Completed:	1973
Depth (m):	102.108
Latitude:	44.7313669665256
Longitude:	-79.8310045301648
Path:	571\5710921.pdf

Bore Hole Information

Bore Hole ID:	10388735	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592564.30
Code OB Desc:		**North83:**	4953774.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	22-Nov-1973 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Loc Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932300352
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	112.0
Formation End Depth:	174.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932300353
Layer:	3
Color:	7
General Color:	RED
Mat1:	21
Most Common Material:	GRANITE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 174.0
Formation End Depth: 335.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932300351
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 112.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 965710921
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10937305
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930638406
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 113.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930638407
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 335.0
Casing Diameter: 6.0
Casing Diameter UOM: inch

Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 995710921
Pump Set At:
Static Level: 82.0
Final Level After Pumping:
Recommended Pump Depth: 330.0
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 3
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933870766
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 330.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10388735
Depth M: 102.108
Year Completed: 1973
Well Completed Dt: 1973/11/22
Audit No:
Tag No:
Contractor: 4816
Path: 571\5710921.pdf
Latitude: 44.7313669665256
Longitude: -79.8310045301648

8	1 of 1	SE/84.6	204.1 / 13.20	lot 14 con 4 ON		WWIS

Well ID: 7050575
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z48226
Tag: A043209
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: TAY TOWNSHIP
Site Info:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 09-Oct-2007 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 5528
Form Version: 3
Owner:
County: SIMCOE
Lot: 014
Concession: 04
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/705\7050575.pdf

Additional Detail(s) (Map)

Well Completed Date: 2007/07/30
Year Completed: 2007
Depth (m): 85.4
Latitude: 44.7316339929835
Longitude: -79.8298284375976
Path: 705\7050575.pdf

Bore Hole Information

Bore Hole ID: 23050575
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 30-Jul-2007 00:00:00
Remarks:
Loc Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 592657.00
North83: 4953805.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 30150575
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 13.100000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30250575
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 05
Mat3 Desc: CLAY
Formation Top Depth: 13.100000381469727

Formation End Depth: 21.299999237060547
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30650575
Layer: 6
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 47.20000076293945
Formation End Depth: 55.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30750575
Layer: 7
Color: 8
General Color: BLACK
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 55.5
Formation End Depth: 67.0999984741211
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30950575
Layer: 9
Color: 8
General Color: BLACK
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 83.80000305175781
Formation End Depth: 85.4000015258789
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30550575
Layer: 5
Color: 2
General Color: GREY
Mat1: 15

Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 24.700000762939453
Formation End Depth: 47.20000076293945
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30350575
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 21.299999237060547
Formation End Depth: 22.799999237060547
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30450575
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 22.799999237060547
Formation End Depth: 24.700000762939453
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 30850575
Layer: 8
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 67.0999984741211
Formation End Depth: 83.80000305175781
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 44006048
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 25950575
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 29050575
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 42250575
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 25.299999237060547
Depth To: 85.4000015258789
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 42150575
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.5
Depth To: 25.299999237060547
Casing Diameter: 15.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 27050575
Pump Set At: 40.0
Static Level: 18.5
Final Level After Pumping: 20.510000228881836
Recommended Pump Depth: 40.0
Pumping Rate: 54.0
Flowing Rate:
Recommended Pump Rate:
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: No

Draw Down & Recovery

Pump Test Detail ID: 45048230
Test Type: Draw Down
Test Duration: 30
Test Level: 20.40999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048228
Test Type: Draw Down
Test Duration: 50
Test Level: 20.479999542236328
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048233
Test Type: Draw Down
Test Duration: 1
Test Level: 18.899999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048218
Test Type: Draw Down
Test Duration: 5
Test Level: 19.90999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048220
Test Type: Recovery
Test Duration: 3
Test Level: 19.200000762939453
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048224
Test Type: Recovery
Test Duration: 1
Test Level: 19.600000381469727
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048231
Test Type: Draw Down
Test Duration: 60
Test Level: 20.510000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048222
Test Type: Recovery
Test Duration: 2
Test Level: 19.399999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048226
Test Type: Draw Down
Test Duration: 15
Test Level: 20.25
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048219
Test Type: Draw Down
Test Duration: 4
Test Level: 19.799999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048221
Test Type: Draw Down
Test Duration: 3
Test Level: 19.510000228881836
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048217
Test Type: Recovery
Test Duration: 5
Test Level: 18.799999237060547
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048223
Test Type: Draw Down
Test Duration: 2
Test Level: 19.15999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048225
Test Type: Recovery
Test Duration: 4
Test Level: 19.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048234

Test Type: Draw Down
Test Duration: 40
Test Level: 20.440000534057617
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048227
Test Type: Draw Down
Test Duration: 10
Test Level: 20.15999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048229
Test Type: Draw Down
Test Duration: 25
Test Level: 20.3799991607666
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 45048232
Test Type: Draw Down
Test Duration: 20
Test Level: 20.350000381469727
Test Level UOM: m

Water Details

Water ID: 41150575
Layer: 1
Kind Code:
Kind:
Water Found Depth: 85.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 46004711
Diameter: 26.0
Depth From: 0.0
Depth To: 7.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 46004710
Diameter: 15.0
Depth From: 25.0
Depth To: 85.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 46004709
Diameter: 22.0

Depth From:	7.0
Depth To:	25.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	23050575	**Tag No:**	A043209
Depth M:	85.4	**Contractor:**	5528
Year Completed:	2007	**Path:**	705\7050575.pdf
Well Completed Dt:	2007/07/30	**Latitude:**	44.7316339929835
Audit No:	Z48226	**Longitude:**	-79.8298284375976

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9 | ***1 of 1*** | ***NNE/99.0*** | ***193.8 / 2.95*** | ***KLEAN CUT***
2837 OLDFORT ROAD, R.R. #1 651
MIDLAND ON L4R 4P4 | ***PES***

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:		**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			
PDF Site Location:			

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10 | ***1 of 1*** | ***NNW/111.3*** | ***193.9 / 3.00*** | ***lot 15 con 3***
ON | ***WWIS***

Well ID:	5726593	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Abandoned-Supply	**Date Received:**	18-May-1990 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	47928	**Contractor:**	2652
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/572\5726593.pdf

Additional Detail(s) (Map)

Well Completed Date: 1990/04/09
Year Completed: 1990
Depth (m): 76.2
Latitude: 44.7346401238357
Longitude: -79.8324036268526
Path: 572\5726593.pdf

Bore Hole Information

Bore Hole ID: 10404178
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09-Apr-1990 00:00:00
Remarks:
Loc Method Desc: from gps
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 592448.30
North83: 4954136.00
Org CS:
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: gps

Overburden and Bedrock Materials Interval

Formation ID: 932370007
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932370010
Layer: 5
Color: 7
General Color: RED
Mat1: 21
Most Common Material: GRANITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 154.0
Formation End Depth: 250.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	932370006
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932370009
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	70.0
Formation End Depth:	154.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932370008
Layer:	3
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	12.0
Formation End Depth:	70.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965726593
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID: 10952748
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930657582
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 75.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 995726593
Pump Set At:
Static Level: 45.0
Final Level After Pumping: 235.0
Recommended Pump Depth: 245.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 30.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934305817
Test Type: Draw Down
Test Duration: 15
Test Level: 235.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934838914
Test Type: Draw Down
Test Duration: 45
Test Level: 235.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935096986
Test Type: Draw Down
Test Duration: 60
Test Level: 235.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934581600
Test Type:	Draw Down
Test Duration:	30
Test Level:	235.0
Test Level UOM:	ft

Water Details

Water ID:	933886525
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	235.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10404178	***Tag No:***	
Depth M:	76.2	***Contractor:***	2652
Year Completed:	1990	***Path:***	572\5726593.pdf
Well Completed Dt:	1990/04/09	***Latitude:***	44.7346401238357
Audit No:	47928	***Longitude:***	-79.8324036268526

11 ***1 of 1*** ***NW/140.9*** ***195.0 / 4.12*** ***lot 15 con 3 ON*** ***WWIS***

Well ID:	5713597	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	28-Sep-1976 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	2514
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	015
Depth to Bedrock:		***Concession:***	03
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/571\5713597.pdf

Additional Detail(s) (Map)

Well Completed Date:	1976/08/15
Year Completed:	1976
Depth (m):	32.004
Latitude:	44.7345429584208
Longitude:	-79.8334664756092
Path:	571\5713597.pdf

Bore Hole Information

Bore Hole ID:	10391338	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592364.30
Code OB Desc:		**North83:**	4954124.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	15-Aug-1976 00:00:00	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Loc Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	932312275
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	65
Mat2 Desc:	DARK-COLOURED
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932312277
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932312279
Layer:	5
Color:	2
General Color:	GREY
Mat1:	17
Most Common Material:	SHALE
Mat2:	12
Mat2 Desc:	STONES
Mat3:	28

Mat3 Desc:	SAND
Formation Top Depth:	52.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932312280
Layer:	6
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	56.0
Formation End Depth:	105.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932312278
Layer:	4
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	73
Mat3 Desc:	HARD
Formation Top Depth:	17.0
Formation End Depth:	52.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932312276
Layer:	2
Color:	7
General Color:	RED
Mat1:	28
Most Common Material:	SAND
Mat2:	77
Mat2 Desc:	LOOSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965713597
Method Construction Code:	1
Method Construction:	Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 10939908
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930641402
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 56.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930641403
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 995713597
Pump Set At:
Static Level: 6.0
Final Level After Pumping: 102.0
Recommended Pump Depth: 102.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 935086681
Test Type: Recovery
Test Duration: 60
Test Level: 11.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934830236
Test Type:	Recovery
Test Duration:	45
Test Level:	17.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934304793
Test Type:	Recovery
Test Duration:	15
Test Level:	51.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934571483
Test Type:	Recovery
Test Duration:	30
Test Level:	29.0
Test Level UOM:	ft

Water Details

Water ID:	933873434
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	56.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10391338	***Tag No:***	
Depth M:	32.004	***Contractor:***	2514
Year Completed:	1976	***Path:***	571\5713597.pdf
Well Completed Dt:	1976/08/15	***Latitude:***	44.7345429584208
Audit No:		***Longitude:***	-79.8334664756092

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12 ***1 of 1*** ***SSE/141.5*** ***210.6 / 19.76*** ***2768 OLD FORT RD Midland ON*** ***WWIS***

Well ID:	7274405	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Alteration	***Date Received:***	07-Nov-2016 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	Yes
Audit No:	Z212639	***Contractor:***	5528
Tag:	A185851	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: TAY TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/727\7274405.pdf

Additional Detail(s) (Map)

Well Completed Date: 2016/09/14
Year Completed: 2016
Depth (m):
Latitude: 44.7307665094279
Longitude: -79.8303889728521
Path: 727\7274405.pdf

Bore Hole Information

Bore Hole ID: 1006287976
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 14-Sep-2016 00:00:00
Remarks:
Loc Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 592614.00
North83: 4953708.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006393910
Layer:
Color:
General Color:
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006393918
Layer: 1
Plug From: 0.0
Plug To: 2.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006393917
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: WELDER

Pipe Information

Pipe ID: 1006393908
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006393914
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 335.0
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1006393913
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -7.0
Depth To:
Casing Diameter: 15.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006393915
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1006393909
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1

Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1006393912
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1006393911
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1006287976	**Tag No:**	A185851
Depth M:		**Contractor:**	5528
Year Completed:	2016	**Path:**	727\7274405.pdf
Well Completed Dt:	2016/09/14	**Latitude:**	44.7307665094279
Audit No:	Z212639	**Longitude:**	-79.8303889728521

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13 | ***1 of 1*** | ***SSE/154.9*** | ***210.6 / 19.76*** | ***lot 15 con 3 ON*** | ***WWIS***

Well ID:	5707707	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	11-Dec-1970 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	2514
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/570\5707707.pdf

Additional Detail(s) (Map)

Well Completed Date:	1970/09/23
Year Completed:	1970

Depth (m): 26.2128
Latitude: 44.7306404639872
Longitude: -79.8303877248761
Path: 570\5707707.pdf

Bore Hole Information

Bore Hole ID:	10385546	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592614.30
Code OB Desc:		**North83:**	4953694.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	23-Sep-1970 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4

Loc Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932286850
Layer: 3
Color: 2
General Color: GREY
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 06
Mat3 Desc: SILT
Formation Top Depth: 55.0
Formation End Depth: 83.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932286848
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 13.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932286851

Layer:	4
Color:	5
General Color:	YELLOW
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	83.0
Formation End Depth:	86.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932286849
Layer:	2
Color:	2
General Color:	GREY
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	13.0
Formation End Depth:	55.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965707707
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10934116
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930634770
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	83.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933365960
Layer:	1
Slot:	025

Screen Top Depth:	83.0
Screen End Depth:	86.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	6.0

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	995707707
Pump Set At:	
Static Level:	47.0
Final Level After Pumping:	81.0
Recommended Pump Depth:	80.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	4.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	30
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934562649
Test Type:	Recovery
Test Duration:	30
Test Level:	50.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934822184
Test Type:	Recovery
Test Duration:	45
Test Level:	48.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934295090
Test Type:	Recovery
Test Duration:	15
Test Level:	55.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	935079158
Test Type:	Recovery
Test Duration:	60
Test Level:	47.0
Test Level UOM:	ft

Water Details

Water ID:	933867238
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	83.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10385546	**Tag No:**	
Depth M:	26.2128	**Contractor:**	2514
Year Completed:	1970	**Path:**	570\5707707.pdf
Well Completed Dt:	1970/09/23	**Latitude:**	44.7306404639872
Audit No:		**Longitude:**	-79.8303877248761

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14 ***1 of 1*** ***SE/164.9*** ***204.4 / 13.52*** ***lot 14 con 4 ON*** ***WWIS***

Well ID:	7050574	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Water Supply	**Date Received:**	09-Oct-2007 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z48324	**Contractor:**	5528
Tag:	A043178	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	04
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/705\7050574.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/06/29
Year Completed:	2007
Depth (m):	24.4
Latitude:	44.7309008137353
Longitude:	-79.8294390989949
Path:	705\7050574.pdf

Bore Hole Information

Bore Hole ID:	23050574	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592689.00
Code OB Desc:		**North83:**	4953724.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	29-Jun-2007 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Loc Method Desc:	on Water Well Record		

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	30250574
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8.600000381469727
Formation End Depth:	14.300000190734863
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30150574
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	8.600000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	30350574
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	14.300000190734863
Formation End Depth:	24.399999618530273
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	44006047

Layer: 1
Plug From: 0.0
Plug To: 7.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 44006046
Layer: 2
Plug From: 0.0
Plug To: 14.399999618530273
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 25950574
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 29050574
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 42250574
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: 11.600000381469727
Depth To: 12.199999809265137
Casing Diameter: 14.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 42150574
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -0.5
Depth To: 11.600000381469727
Casing Diameter: 15.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 27050574
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:

Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	41150574
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	12.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	46004708
Diameter:	26.0
Depth From:	0.0
Depth To:	6.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	46004707
Diameter:	22.0
Depth From:	6.0
Depth To:	14.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	23050574	***Tag No:***	A043178
Depth M:	24.4	***Contractor:***	5528
Year Completed:	2007	***Path:***	705\7050574.pdf
Well Completed Dt:	2007/06/29	***Latitude:***	44.7309008137353
Audit No:	Z48324	***Longitude:***	-79.8294390989949

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15 ***1 of 1*** ***WSW/169.0*** ***198.2 / 7.34*** ***16160 HWY 12 EAST. MIDLAND ON*** ***WWIS***

Well ID:	7308863	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	05-Apr-2018 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z240430	***Contractor:***	6607
Tag:	A241209	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	

Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	MIDLAND TOWN		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/02/22
Year Completed:	2018
Depth (m):	4.5
Latitude:	44.7317682692136
Longitude:	-79.8332734679599
Path:	

Bore Hole Information

Bore Hole ID:	1007013188	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	592384.00
Code OB Desc:		***North83:***	4953816.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	22-Feb-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007135830
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	1.2999999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1007135831
Layer:	2
Color:	6

General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	1.2999999523162842
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007135838
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007135839
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.2000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1007135837
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1007135829
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007135834
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007135835
Layer:	1
Slot:	10

Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1007135833
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1007135832
Diameter:	17.0
Depth From:	0.0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1007013188	**Tag No:**	A241209
Depth M:	4.5	**Contractor:**	6607
Year Completed:	2018	**Path:**	730\7308863.pdf
Well Completed Dt:	2018/02/22	**Latitude:**	44.7317682692136
Audit No:	Z240430	**Longitude:**	-79.8332734679599

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16 ***1 of 1*** ***WSW/176.9*** ***196.1 / 5.27*** ***16160 HWY 12, EAST MIDLAND ON*** ***WWIS***

Well ID:	7308838	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05-Apr-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z267003	**Contractor:**	6607
Tag:	A241206	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MIDLAND TOWN		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2018/02/21

Year Completed: 2018
Depth (m): 4.5
Latitude: 44.731805819133
Longitude: -79.833424261948
Path:

Bore Hole Information

Bore Hole ID:	1007013113	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	592372.00
Code OB Desc:		***North83:***	4953820.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	21-Feb-2018 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1007135296
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 1.600000023841858
Formation End Depth: 4.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007135295
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 1.600000023841858
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135304
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135303
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007135302
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007135294
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007135299
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007135300
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1007135298
Layer:
Kind Code:
Kind:
Water Found Depth:

Water Found Depth UOM: m

Hole Diameter

Hole ID: 1007135297
Diameter: 17.0
Depth From: 0.0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1007013113
Depth M: 4.5
Year Completed: 2018
Well Completed Dt: 2018/02/21
Audit No: Z267003
Tag No: A241206
Contractor: 6607
Path: 730\7308838.pdf
Latitude: 44.731805819133
Longitude: -79.833424261948

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17 | ***1 of 1*** | ***WSW/182.0*** | ***196.1 / 5.27*** | ***16160 HWY 12, EAST MIDLAND ON*** | ***WWIS***

Well ID: 7308840
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z267002
Tag: A241205
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: MIDLAND TOWN
Site Info:

PDF URL (Map):

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05-Apr-2018 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: SIMCOE
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Well Completed Date: 2018/02/21
Year Completed: 2018
Depth (m): 4.2
Latitude: 44.731706684833
Longitude: -79.8334136260011
Path:

Bore Hole Information

Bore Hole ID: 1007013119
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Elevation:
Elevrc:
Zone: 17
East83: 592373.00
North83: 4953809.00
Org CS: UTM83

Cluster Kind:
Date Completed: 21-Feb-2018 00:00:00
Remarks:
Loc Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007135317
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 01
Mat3 Desc: FILL
Formation Top Depth: 0.0
Formation End Depth: 1.600000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007135318
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 1.600000023841858
Formation End Depth: 4.199999809265137
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135325
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135326
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:	1007135324
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1007135316
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007135321
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007135322
Layer:	1
Slot:	10
Screen Top Depth:	1.2000000476837158
Screen End Depth:	4.199999809265137
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1007135320
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1007135319
Diameter:	17.0
Depth From:	0.0
Depth To:	4.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID:	1007013119	**Tag No:**	A241205
Depth M:	4.2	**Contractor:**	6607
Year Completed:	2018	**Path:**	730\7308840.pdf
Well Completed Dt:	2018/02/21	**Latitude:**	44.731706684833
Audit No:	Z267002	**Longitude:**	-79.8334136260011

18 **1 of 1** **WSW/190.5** **196.1 / 5.27** **16160 HWY 12, EASY MIDLAND ON** **WWIS**

Well ID:	7308839	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05-Apr-2018 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z267004	**Contractor:**	6607
Tag:	A241208	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	MIDLAND TOWN		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2018/02/21
Year Completed:	2018
Depth (m):	4.5
Latitude:	44.7317352340839
Longitude:	-79.8335646008595
Path:	

Bore Hole Information

Bore Hole ID:	1007013116	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592361.00
Code OB Desc:		**North83:**	4953812.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-Feb-2018 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1007135306
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 1.600000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1007135307
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 1.600000023841858
Formation End Depth: 4.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135315
Layer: 2
Plug From: 0.30000001192092896
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007135314
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1007135313
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1007135305
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1007135310
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007135311
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1007135309
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1007135308
Diameter:	17.0
Depth From:	0.0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Links

Bore Hole ID:	1007013116	***Tag No:***	A241208
Depth M:	4.5	***Contractor:***	6607
Year Completed:	2018	***Path:***	730\7308839.pdf
Well Completed Dt:	2018/02/21	***Latitude:***	44.7317352340839
Audit No:	Z267004	***Longitude:***	-79.8335646008595

19	1 of 1	N/210.8	198.5 / 7.64	lot 15 con 4 ON	WWIS

Well ID:	5707646	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	25-Nov-1970 00:00:00

Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4816
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	015
Depth to Bedrock:		**Concession:**	04
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/570\5707646.pdf

Additional Detail(s) (Map)

Well Completed Date:	1970/08/12
Year Completed:	1970
Depth (m):	51.2064
Latitude:	44.7354184716702
Longitude:	-79.8310491958472
Path:	570\5707646.pdf

Bore Hole Information

Bore Hole ID:	10385486	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592554.30
Code OB Desc:		**North83:**	4954224.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	12-Aug-1970 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Loc Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932286622
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	74.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932286623
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	74.0
Formation End Depth:	168.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	965707646
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10934056
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930634701
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	76.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930634702
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	168.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	995707646
Pump Set At:	

Static Level:	17.0
Final Level After Pumping:	31.0
Recommended Pump Depth:	35.0
Pumping Rate:	5.0
Flowing Rate:	
Recommended Pump Rate:	5.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	30
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933867171
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	151.0
Water Found Depth UOM:	ft

Links

Bore Hole ID:	10385486	**Tag No:**	
Depth M:	51.2064	**Contractor:**	4816
Year Completed:	1970	**Path:**	570\5707646.pdf
Well Completed Dt:	1970/08/12	**Latitude:**	44.7354184716702
Audit No:		**Longitude:**	-79.8310491958472

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20 | ***1 of 1*** | ***SE/217.4*** | ***209.9 / 19.08*** | ***Freshet Creek***
2752 Old Fort Road
Midland ON L4R 4K3 | ***GEN***

Generator No:	ON4597489	**Status:**	
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	04	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

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21 | ***1 of 1*** | ***SSE/243.7*** | ***210.7 / 19.85*** | ***16160 HIGHWAY 12***
Midland ON | ***WWIS***

Well ID:	7236417	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Monitoring and Test Hole	**Date Received:**	27-Jan-2015 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z201987	**Contractor:**	7241
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy:
Municipality: MIDLAND TOWN
Site Info:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2014/12/17
Year Completed: 2014
Depth (m):
Latitude: 44.7297965270394
Longitude: -79.8306105825513
Path:

Bore Hole Information

Bore Hole ID: 1005294421
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 17-Dec-2014 00:00:00
Remarks:
Loc Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 592598.00
North83: 4953600.00
Org CS: UTM83
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: wwr
UTM Reliability:

Annular Space/Abandonment Sealing Record

Plug ID: 1005516911
Layer: 1
Plug From: 0.0
Plug To: 3.9600000381469727
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1005516910
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1005516902
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005516906

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

Construction Record - Screen

Screen ID: 1005516907
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID: 1005516905
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1005516904
Diameter:
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Links

Bore Hole ID: 1005294421
Depth M:
Year Completed: 2014
Well Completed Dt: 2014/12/17
Audit No: Z201987
Tag No:
Contractor: 7241
Path: 723\7236417.pdf
Latitude: 44.7297965270394
Longitude: -79.8306105825513

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22 | ***1 of 1*** | ***SSE/244.8*** | ***211.3 / 20.45*** | ***CONEY ISLAND AUTO WRECKERS***
2738 OLD FORT RD
MIDLAND ON L4R 4K3 | ***AUWR***

Headcode: 98600
Headcode Desc: Automobile Wrecking & Recycling
Phone: 7055279057
List Name:
Description:

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23 | ***1 of 1*** | ***SSE/245.4*** | ***211.9 / 21.03*** | ***lot 14 con 3***
ON | ***WWIS***

Well ID:	7220634	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	14-May-2014 00:00:00
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C20055	**Contractor:**	6032
Tag:	A102028	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	SIMCOE
Elevatn Reliabilty:		**Lot:**	014
Depth to Bedrock:		**Concession:**	03
Well Depth:		**Concession Name:**	CON
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	TAY TOWNSHIP		
Site Info:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2013/10/18
Year Completed:	2013
Depth (m):	
Latitude:	44.7298033292576
Longitude:	-79.8303957584147
Path:	

Bore Hole Information

Bore Hole ID:	1004771766	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	592615.00
Code OB Desc:		**North83:**	4953601.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	6
Date Completed:	18-Oct-2013 00:00:00	**UTMRC Desc:**	margin of error : 300 m - 1 km
Remarks:		**Location Method:**	wwr
Loc Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Links

Bore Hole ID:	1004771766	**Tag No:**	A102028
Depth M:		**Contractor:**	6032
Year Completed:	2013	**Path:**	
Well Completed Dt:	2013/10/18	**Latitude:**	44.7298033292576
Audit No:	C20055	**Longitude:**	-79.8303957584147

Unplottable Summary

Total: 12 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	BRUIN ENGINEERED PARTS INC.	HIGHWAY #12 (8-3176-91-007)	MIDLAND TOWN ON	
CA	BRUIN ENGINEERED PARTS INC.	HIGHWAY # 12	MIDLAND TOWN ON	
CA		Highway No. 12, P.O. Box 816	Midland ON	
CA	BRUIN ENGINEERED PARTS INC.	HIGHWAY NO. 12	MIDLAND TOWN ON	
GEN	BRUIN ENGINEERED PARTS INC.	HWY. 12, P.O. BOX 816	MIDLAND ON	L4R 4P4
PES	KLEAN CUT	PO BOX 651	MIDLAND ON	L4R4P4
SCT	MIDLAND CANVAS PRODUCTS	HWY 12 5TH CONC	MIDLAND ON	L4R 4L3
SCT	BRUIN ENGINEERED PARTS INC.	HWY 12	MIDLAND ON	L4R 4P4
SPL	PUC	AT BRUIN ENGINEERING PARTS HWY #12 TRANSFORMER	MIDLAND TOWN ON	
SPL	The Corporation of the Town of Midland	Hwy 12	Midland ON	
WWIS		con 4	ON	
WWIS		lot 14	ON	

Unplottable Report

Site: ***BRUIN ENGINEERED PARTS INC.***
HIGHWAY #12 (8-3176-91-007) MIDLAND TOWN ON

Database: ***CA***

Certificate #:	8-3202-96-
Application Year:	96
Issue Date:	4/25/1996
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	EXHAUST SYSTEM FOR SCHULLER XI200
Contaminants:	Other Organic Compounds
Emission Control:	No Controls

Site: ***BRUIN ENGINEERED PARTS INC.***
HIGHWAY # 12 MIDLAND TOWN ON

Database: ***CA***

Certificate #:	8-3176-91-
Application Year:	91
Issue Date:	7/29/1991
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	INSTALL 1 BAYCO HEAT CLEANING OVEN BB-50
Contaminants:	Nitrogen Oxides, Sulphur Dioxide, Methane (Incl. Hydrocarbons Expr. As Ch4
Emission Control:	

Site:
Highway No. 12, P.O. Box 816 Midland ON

Database: ***CA***

Certificate #:	
Application Year:	00
Issue Date:	4/27/00
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	Amended CofA
Client Name:	Bruin Engineered Parts Inc.
Client Address:	Highway No. 12, P.O. Box 816
Client City:	Midland
Client Postal Code:	L4R 4P4
Project Description:	This is an application for an exhaust stack. Used to vent steam from a water evaporator system. Contact waste water from washing units is collected in a holding tank and periodically pumped out and disposed of. The evaporator system will pump the waste water from the holding tank through a filter pre-treatment system. Solids will remain in the holding tank and the water will be evaporated and the solids will be disposed using current methods.
Contaminants:	
Emission Control:	

Site: ***BRUIN ENGINEERED PARTS INC.***

Database:

HIGHWAY NO. 12 MIDLAND TOWN ON **CA**

Certificate #:	8-5076-96-
Application Year:	96
Issue Date:	8/27/1996
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	INSTALLATION OF EXHAUST FAN
Contaminants:	Other Organic Compounds
Emission Control:	No Controls

Site: ***BRUIN ENGINEERED PARTS INC.***
HWY. 12, P.O. BOX 816 MIDLAND ON L4R 4P4

Database: ***GEN***

Generator No:	ON0371000	***Status:***	
SIC Code:	0000	***Co Admin:***	
SIC Description:	*** NOT DEFINED ***	***Choice of Contact:***	
Approval Years:	86,87,88	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Site: ***KLEAN CUT***
PO BOX 651 MIDLAND ON L4R4P4

Database: ***PES***

Detail Licence No:		***Operator Box:***	
Licence No:	04687	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	705
Licence Type:		***Oper Phone No:***	
Licence Type Code:	02	***Operator Ext:***	
Licence Class:	01	***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF URL:			
PDF Site Location:			

Site: ***MIDLAND CANVAS PRODUCTS***
HWY 12 5TH CONC MIDLAND ON L4R 4L3

Database: ***SCT***

Established:	1979
Plant Size (ft²):	0
Employment:	1

--Details--

Description:	CANVAS AND RELATED PRODUCTS
SIC/NAICS Code:	2394

Site: ***BRUIN ENGINEERED PARTS INC.***
HWY 12 MIDLAND ON L4R 4P4

Database: ***SCT***

Established: 1985
Plant Size (ft²): 40000
Employment: 120

--Details--
Description: ALUMINUM EXTRUDED PRODUCTS
SIC/NAICS Code: 3354

Description: MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3999

Description: Aluminum Rolling, Drawing, Extruding and Alloying
SIC/NAICS Code: 331317

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

Site: ***PUC***
AT BRUIN ENGINEERING PARTS HWY #12 TRANSFORMER MIDLAND TOWN ON

Database: ***SPL***

Ref No: 33004
Site No:
Incident Dt: 3/6/1990
Year:
Incident Cause: COOLING SYSTEM LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/8/1990
Dt Document Closed:
Incident Reason: DAMAGE BY MOVING EQUIPMENT
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: BACKENTRY-PUC TRANSFORMER 450 L. TRANSFORMER OIL TO GROUND.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 70404
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ***The Corporation of the Town of Midland***
Hwy 12 Midland ON

Database: ***SPL***

Ref No: 5022-8AZPGV
Site No:
Incident Dt:
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Northing:
Easting:

Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/8/2010	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:	Spill	***Source Type:***	
Site Name:	Hwy 12 between hwy 93 and King Street <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	MVA: 2 vehicles burst gas tank, 10L to shoulder		
Contaminant Qty:	10 L		

Site:
con 4 ON

Database:
WWIS

Well ID:	5731636	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Municipal	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	17-Jul-1995 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	160155	***Contractor:***	1851
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	04
Well Depth:		***Concession Name:***	CON
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	TAY TOWNSHIP		
Site Info:			

Bore Hole Information

Bore Hole ID:	10409190	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	15-Apr-1995 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Loc Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932394959
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 108.0
Formation End Depth: 131.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394955
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394957
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 44.0
Formation End Depth: 72.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394956
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 05
Mat2 Desc: CLAY
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 32.0
Formation End Depth: 44.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394960
Layer: 7
Color: 7
General Color: RED
Mat1: 28
Most Common Material: SAND

Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 131.0
Formation End Depth: 175.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394961
Layer: 8
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 175.0
Formation End Depth: 202.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394962
Layer: 9
Color: 6
General Color: BROWN
Mat1: 10
Most Common Material: COARSE SAND
Mat2: 91
Mat2 Desc: WATER-BEARING
Mat3:
Mat3 Desc:
Formation Top Depth: 202.0
Formation End Depth: 229.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394958
Layer: 5
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 72.0
Formation End Depth: 108.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394963
Layer: 10
Color: 2

General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 229.0
Formation End Depth: 239.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932394954
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933194239
Layer: 2
Plug From: 3.0
Plug To: 200.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933194238
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 965731636
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10957760
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930663697

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 204.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933378153
Layer: 1
Slot: 020
Screen Top Depth: 202.0
Screen End Depth: 222.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 8.0

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 995731636
Pump Set At:
Static Level: 162.0
Final Level After Pumping: 182.0
Recommended Pump Depth: 185.0
Pumping Rate: 50.0
Flowing Rate:
Recommended Pump Rate: 50.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 48
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 935095569
Test Type: Recovery
Test Duration: 60
Test Level: 162.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934580237
Test Type: Recovery
Test Duration: 30
Test Level: 162.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934837452
Test Type: Recovery
Test Duration: 45
Test Level: 162.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934313699
Test Type:	Recovery
Test Duration:	15
Test Level:	163.0
Test Level UOM:	ft

Water Details

Water ID:	933891728
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	202.0
Water Found Depth UOM:	ft

Site:
lot 14 ON

Database:
WWIS

Well ID:	5730376	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	24-Nov-1993 00:00:00
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	139442	***Contractor:***	3660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	SIMCOE
Elevatn Reliabilty:		***Lot:***	014
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	INDIAN RESERVE CHRISTIAN ISLAND 30		
Site Info:			

Bore Hole Information

Bore Hole ID:	10407935	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	21-Sep-1993 00:00:00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Loc Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932388635
Layer:	5

Color: 2
General Color: GREY
Mat1: 10
Most Common Material: COARSE SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 31.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932388634
Layer: 4
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 25.0
Formation End Depth: 31.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932388632
Layer: 2
Color: 7
General Color: RED
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932388631
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932388633
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933193067
Layer: 1
Plug From: 8.0
Plug To: 12.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933193068
Layer: 2
Plug From: 33.0
Plug To: 37.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 965730376
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10956505
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930662189
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 37.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933377403
Layer: 1

Slot: 016
Screen Top Depth: 37.0
Screen End Depth: 40.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5.0

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 995730376
Pump Set At:
Static Level: 32.0
Final Level After Pumping: 33.0
Recommended Pump Depth: 33.0
Pumping Rate: 2.0
Flowing Rate:
Recommended Pump Rate: 2.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934585050
Test Type: Recovery
Test Duration: 30
Test Level: 33.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935100391
Test Type: Recovery
Test Duration: 60
Test Level: 33.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934833501
Test Type: Recovery
Test Duration: 45
Test Level: 33.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934309728
Test Type: Recovery
Test Duration: 15
Test Level: 33.0
Test Level UOM: ft

Water Details

Water ID: 933890442
Layer: 1

Kind Code:	1
Kind:	FRESH
Water Found Depth:	31.0
Water Found Depth UOM:	ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

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-Mar 2022

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-May 31, 2022

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 2020

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: Feb 28, 2022

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-May 31, 2022

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 -Apr 2022

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-Jun 2022

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994 - Jul 31, 2022

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 - Sep 2020

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: Feb 28, 2022

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- Jul 31, 2022

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994 - Jul 31, 2022

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- Jul 31, 2022

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Jul 31, 2022

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 or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

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: Feb 28, 2022

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-Jun 2022

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: May 31, 2018

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: Feb 28, 2022

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-Apr 30, 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 2019

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 in 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: Feb 28, 2022

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 21, 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 2022

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, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the 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: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private 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-Aug 31, 2022

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-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994 - Jul 31, 2022

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- Jul 31, 2022

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

Government Publication Date: 1994 - Jul 31, 2022

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, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Jul 2022

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-May 31, 2022

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 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.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2020

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 - Dec 2020

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- Jul 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Jun 30 2022

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX D

Aerial Photographs

HISTORICAL AERIALS

Project Property:	35527 Excess Soils - Old Fort Road Old Fort Road Midland ON
Project No:	35527
Requested By:	Thurber Engineering Ltd-Toronto
Order No:	22091500391
Date Completed:	September 19, 2022

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Decade	Year	Image Scale	Source
1920	Not Available		
1930	1930	15000	NAPL
1940	Not Available		
1950	1959	12000	NAPL
1960	1965	35000	NAPL
1970	1973	20000	NAPL
1980	1987	50000	NAPL
1990	1995	50000	NAPL
2000	Not Available		
2010	2021	13000	Maxar

0 0.125 0.25 0.5
Kilometers

Order Number: 22091500391

Year: 1930
Source: NAPL
Map Scale: 1: 10000
Comments: Best Copy Available

0 0.125 0.25 0.5
Kilometers

Order Number: 22091500391

Year: 1959
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

Order Number: 22091500391

Year: 1965
Source: NAPL
Map Scale: 1: 10000
Comments:

ERIS

0 0.125 0.25 0.5
Kilometers

Order Number: 22091500391

Year: 1973
Source: NAPL
Map Scale: 1: 10000
Comments: Best Copy Available

0 0.125 0.25 0.5
Kilometers

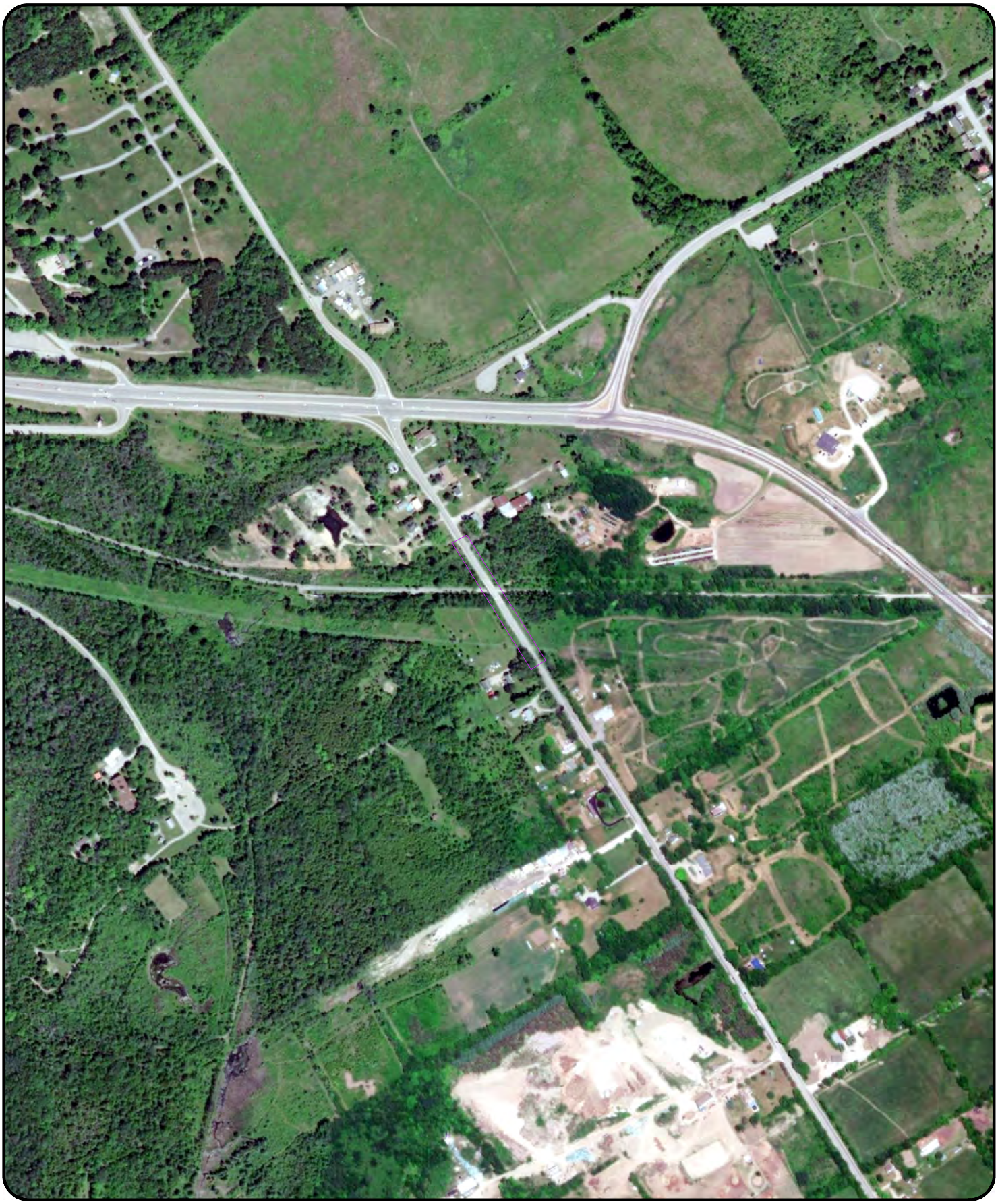
Order Number: 22091500391

Year: 1987
Source: NAPL
Map Scale: 1: 10000
Comments:

0 0.125 0.25 0.5
Kilometers

Order Number: 22091500391

Year: 1995
Source: NAPL
Map Scale: 1: 10000
Comments:



0 0.125 0.25 0.5 Kilometers

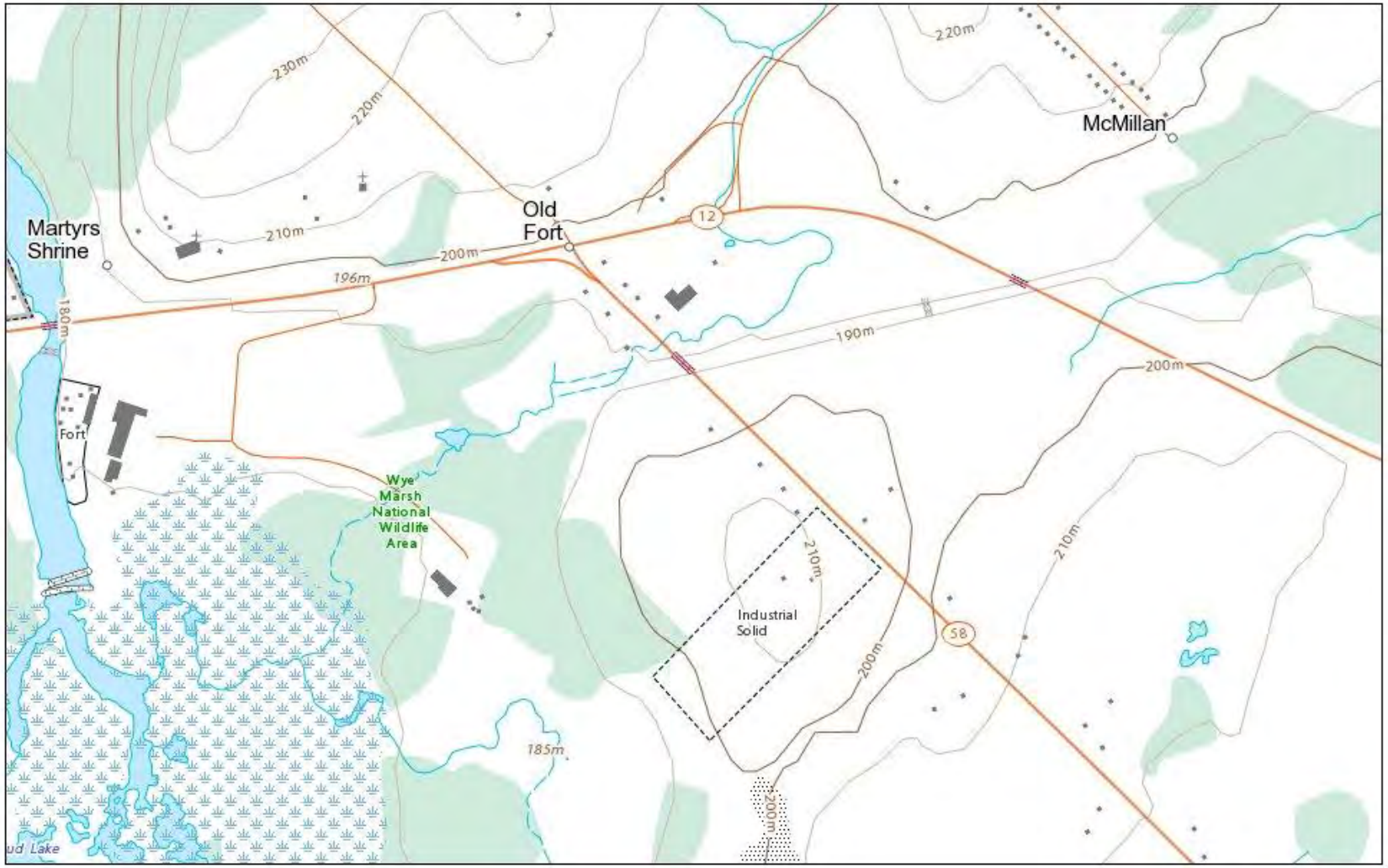
Order Number: 22091500391

Year: 2021
Source: Maxar
Map Scale: 1: 10000
Comments:

APPENDIX E

Topographic Map

Toporama



October 25, 2022

1:10,000

0 0.075 0.15 0.3 mi

0 0.125 0.25 0.5 km

Natural Resources Canada Ressources naturelles Canada

Canada

APPENDIX F

Site Photographs

Photo 1: View of Old Fort Road, 20m south of the bridge, facing north.

Photo 2: South bridge abutment/embankment, from the TransCanada trail, facing west.

Photo 3: Underside of the bridge, view of the north embankment, facing southeast.

Photo 4: View of the Project Area from the TransCanada trail, facing east towards the bridge.

Photo 5: 2852 Old Fort Road residential home, propane heating tanks typical of the houses in the APU Study Area are visible.

Photo 6: 2849 and 2855 Old Fort Road, propane heating tanks and a dug well are visible.

Photo 7: View of a hydro corridor to the south of the TransCanada trail, from Old Fort Road facing east.

Photo 8: View of Bell telephone junction boxes located on the northwest side of the bridge, facing south.