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Phase One Environmental Site Assessment
103 Burnhamthorpe Road West
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Prepared for:

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1 EXECUTIVE SUMMARY

Landtek Limited (Landtek) is pleased to submit this Phase 1 Environmental Site Assessment (ESA) report for the property located at 103 Burnhamthorpe Road West in Oakville, Ontario (the “Site” or the “Phase One Property”), as shown on **Figure 1**. The work was initiated following authorization to proceed from Mr. Leo Wu of Sixth Oak Inc. (the Client) in October of 2020.

The current land-use for the Site is zoned as residential (southern corner) and agricultural. The zoning of the area includes residential and agricultural land-uses, a municipal water reservoir is located to the east of the Site. The Site is to be redeveloped into industrial, parkland and residential (“mixed use”).

O. Reg. 153/04 stipulates that for a property, the Site Condition Standards (SCS) that are applicable to the property are the standards that are applicable to the most sensitive type of property use, in this case “residential” is the most sensitive land use, therefore the most stringent land-use (i.e., “residential”) is considered as the intended land-use. **Since there is no change to a more sensitive land use a Record of Site Condition is NOT required.**

As required with Region of Halton, this Phase One ESA has been completed in accordance with Ontario Regulation 153/04 (“O. Reg. 153/04”). The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Site as a result of current and/or past activities at the Site and/or neighbouring properties located within 250 m of the Site (Phase One Study Area).

Sampling and chemical analysis of soil, groundwater, and/or other materials was not carried out as part of this Phase One ESA.

Information sources for the development of a Conceptual Site Model was gathered from numerous sources (i.e., aerial photographs, environmental database searches, physical setting sources, interviews, and a Site reconnaissance), which reduces the risk of not identifying either a current or former property use for a potential contaminating activity (PCA).

SITE DESCRIPTION

The municipal address of the Site is 103 Burnhamthorpe Road West in Oakville, Ontario. The legal description of the Site is reported as PT LT 16, CON 2 TRAFALGAR, NDS, OAKVILLE DESIGNATED AS PARTS 8,9,10 AND 14 ON 20R-20196;T/W EASE ON 281762 SUBJECT TO AN EASEMENT INGROSS OVER PTS 8 AND 10 ON 20R20196 AS IN HR1348269 SUBJECT TO AN EASEMENT IN GROSS OVER PT 9 ON 20R20196 AS IN HR1348270 TOWN OF OAKVILLE and the Property Identification Number (PIN) is reported as 24929-3358 (LT).

The current land-use for the Site is zoned as residential (southern corner) and agricultural. Landtek understands that the Site is to be redeveloped into industrial, parkland and residential (“mixed use”).

The Phase One Property has an area of 23 hectares (57 acres) and is situated on the northwestern corner of the intersection of Burnhamthorpe Road West and Sixth Line in Oakville, Ontario.

The Site is irregular in shape and is bound by William Halton Parkway and agricultural lands to the north (followed by 407 Highway), Sixth Line to the east (followed by a residential subdivision



and a municipal water reservoir); Burnhamthorpe Road to the south (followed by residential and agricultural properties); agricultural and residential properties to the west. A portion of William Halton Parkway is constructed and bounds a portion of the northern boundary of the Phase One Property.

The Phase One Property is currently utilized as a residential property with one (1) residential building present and a garage/shed (southern corner), while the remainder is utilized as agricultural lands. Naturalized lands (designated Region of Halton Natural Heritage System (NHS) lands) are located on the northern portion of the Site. One (1) Area of Natural and Scientific Interest (ANSI) was identified on the southern portion of the Site, the Oakville-Milton Wetlands and Uplands ANSI (ID: 67435761) a Life Science ANSI with Provincial significance.

The topography of the land in the vicinity of the Site slopes towards the south/southeast, towards Morrison Creek, located approximately 550 m (0.55 km) southeast of the Site. Drainage swales which ultimately discharge into Morrison Creek are present on the Phase One Property. Based on the local topography and mapping, the direction of groundwater flow is inferred to be southeasterly.

The Site is predominantly surrounded by agricultural and residential properties.

The Site is currently zoned agricultural and residential. Based on information sources reviewed, the Site land-use was historically agricultural, upon which time the Site was developed with the current building (circa 1985); the building was historically and is currently utilized as a residence. Consequently, pursuant to Section 32 (b) (1) of O. Reg. 153/04, the Site is not considered an 'enhanced investigation property' as the Site was not historically utilized for industrial use and/or commercial use as a garage, a bulk liquid dispensing facility (including a gasoline outlet), nor for the operation of dry cleaning equipment.

SUMMARY OF FINDINGS

The Site is currently zoned agricultural and residential. Based on information sources reviewed, the Site land-use was historically agricultural, upon which time the Site was developed with the current building (circa 1985); the building was historically and is currently utilized as a residence.

At the time of the Landtek's Site visit, a 2 storey residential building with a basement and a garage / shed were occupying southern portion of the Site, while the remainder was utilized as agricultural lands, with the exception of the ANSI lands which were naturalized (forested) lands. The building was built in 1985 as a residential property and was used as such to present. There was no evidence of chemical manufacturing/storage and/or underground storage tanks (USTs) on the Site. There was no observed evidence of fill pipes, breather pipes or ground depressions that may indicate the presence of any UST's. One (1) propane above ground storage tank (AST) was observed on the Site. No activities were observed on the Site suggesting the existence of Potentially Contaminating Activities (PCAs) that may have led to Areas of Potential Environmental Concern (APECs) for the Site.

Based on the Site visit completed, the following was observed on the Site suggesting the existence of PCAs for the Site:

PCA	Location / Direction to the Site	APEC	Rational
28. Gasoline and associated products stored in fixed tanks	The Site	No	Propane (i.e., a gas) is considered a PCA that is not anticipated to represent an APEC on the Site.

Based on the background documents reviewed the following potentially contaminating activity was identified for the surrounding properties:

PCA	Location / Direction to the Site	APEC	Rational
Other 1: Spill	Burnhamthorpe Rd W and 6 th Line / Approximately 25 m east of the Site	No	In 2018, 200 L of hydraulic oil was released to a ditch. Based on the release into an off-ditch (draining away from the Site), this spill is considered a PCA that is not anticipated to represent an APEC on the Site.

CONCLUSIONS

Based on the findings of the records review, interviews and the Site reconnaissance completed, PCAs were identified. The PCAs are related to:

- PCA A: Gasoline and associated products stored in fixed tanks (PCA 28). A propane AST was observed on the Site;
- PCA B: In 2018, a spill of hydraulic oil was reported to an off-Site ditch which drains away from the Site, this spill is considered a PCA that is not anticipated to represent an APEC on the Site.

No APECs were identified on the Site.

The current land-use for the Site is zoned as residential (southern corner) and agricultural. The zoning of the area includes residential and agricultural land-uses, a municipal water reservoir is located to the east of the Site. The Site is to be redeveloped into industrial, parkland and residential (“mixed use”).

O. Reg. 153/04 stipulates that for a property, the Site Condition Standards (SCS) that are applicable to the property are the standards that are applicable to the most sensitive type of property use, in this case “residential” is the most sensitive land use, therefore the most stringent land-use (i.e., “residential”) is considered as the intended land-use. **Since there is no change to a more sensitive land use a Record of Site Condition is NOT required.**

RECOMMENDATIONS

Based on the results of the Phase One ESA, a Phase Two ESA is **not** recommended to be completed for this Site **no** APECs were identified.

2 INTRODUCTION

Landtek Limited (Landtek) is pleased to submit this Phase 1 Environmental Site Assessment (ESA) report for the property located at 103 Burnhamthorpe Road West in Oakville, Ontario (the “Site” or the “Phase One Property”), as shown on **Figure 1**. The work was initiated following authorization to proceed from Mr. Leo Wu of Sixth Oak Inc. (the Client) in October of 2020.

The current land-use for the Site is zoned as residential (southern corner) and agricultural. The zoning of the area includes residential and agricultural land-uses, a municipal water reservoir is located to the east of the Site. The Site is to be redeveloped into industrial, parkland and residential (“mixed use”).

O. Reg. 153/04 stipulates that for a property, the Site Condition Standards (SCS) that are applicable to the property are the standards that are applicable to the most sensitive type of property use, in this case “residential” is the most sensitive land use, therefore the more stringent land-use (i.e., “residential”) is considered as the intended land-use. **Since there is no change to a more sensitive land use a Record of Site Condition is NOT required.**

As required with Region of Halton, this Phase One ESA has been completed in accordance with Ontario Regulation 153/04 (“O. Reg. 153/04”). The purpose of the Phase One ESA was to assess if evidence of potential and/or actual environmental contamination exists at the Site as a result of current and/or past activities at the Site and/or neighbouring properties located within 250 m of the Site (Phase One Study Area).

On November 25, 2020, Ms. Nicole Harper, H.B.Sc. of Landtek conducted a walkover of the Phase One Study Area (i.e., properties located within 250 m of the Site) in conjunction with a review of regulatory/historical information pursuant to O. Reg. 153/04. Landtek was unaccompanied for the walkover of the Site and the Study Area which involved the assessment of visible, publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area.

(a) Phase One Property Information

The Phase One Property is irregular in shape and comprises an area of approximately 23 hectares (57 acres) and is located on the southern corner of the intersection of Sixth Line and Burnhamthorpe Road West in Oakville, Ontario, as shown on **Figure 1**.

The Site is irregular in shape and is bound by William Halton Parkway and agricultural lands to the north (followed by 407 Highway), Sixth Line to the east (followed by a residential subdivision and a municipal water reservoir); Burnhamthorpe Road to the south (followed by residential and agricultural properties); agricultural and residential properties to the west. A portion of William Halton Parkway is constructed and bounds a portion of the northern boundary of the Phase One Property.

The Site information is provided in **Table 1**, below.

Table 1: Site Information

Description	Details
Municipal Address: 103 Burnhamthorpe Road West, Oakville, Ontario	
Legal Description	PT LT 16, CON 2 TRAFALGAR, NDS, OAKVILLE DESIGNATED AS PARTS 8,9,10 AND 14 ON 20R-20196;T/W EASE ON 281762 SUBJECT TO AN EASEMENT INGROSS OVER PTS 8 AND 10 ON 20R20196 AS IN HR1348269 SUBJECT TO AN EASEMENT IN GROSS OVER PT 9 ON 20R20196 AS IN HR1348270 TOWN OF OAKVILLE
PIN	24929-3358
Zoning	Residential and Agricultural
Property Owner Information	Sixth Oak Inc. 145 Reynolds Street, Suite 400 Oakville, Ontario L6J 0A7

The Site is currently zoned agricultural and residential. Based on information sources reviewed, the Site land-use was historically agricultural, upon which time the Site was developed with the current building (circa 1985); the building was historically and is currently utilized as a residence.

3 SCOPE OF INVESTIGATION

The Phase One ESA was completed in accordance with O. Reg. 153/04, as amended under the Environmental Protection Act and in general accordance with the Phase One requirements described in CSA Standard Z768-01 dated November 2001, as amended in April 2003. In addition, the document "Guideline: Professional Engineers Providing Services in Environmental Site Assessment, Remediation, and Management (Association of Professional Engineers of Ontario, 1996)" was also referenced. The Phase One ESA is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination at a property. The Phase One ESA satisfies the requirements of O. Reg. 153/04 and as such can be used to support the preparation of an RSC.

The Phase One ESA does not include sampling or testing of air, soil, groundwater, or building materials. These analyses would be conducted in a Phase Two ESA or designated hazardous substance survey, if warranted.

The Site is currently zoned agricultural and residential. Based on information sources reviewed, the Site land-use was historically agricultural, upon which time the Site was developed with the current building (circa 1985); the building was historically and is currently utilized as a residence. Consequently, pursuant to Section 32 (b) (11) of O. Reg. 153/04, the Site is not considered an 'enhanced investigation property' as the Site was not historically utilized for industrial and/or commercial use, as discussed in **Section 7 (k)**.

The Phase One Study Area includes the Site and all other properties located wholly or in part within 250 m of the boundaries of the Site. The qualified person for this ESA determined that no properties more than 250 m away from the Site boundaries needed to be included in the Phase One Study Area.

The general objectives of the Phase One ESA included the following:

- To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase One Property;
- To determine the need for a Phase Two ESA; and,
- To aid in the development of a Phase Two ESA scope of work, if required.

The scope of work for the Phase One ESA consisted of the following:

- A records review which included the following (where available), but not limited to:
 - Publicly available city directories, aerial photographs, fire insurance plans, geological and topographical maps;
 - Fire insurance plans (FIPs), property underwriter's reports from Opta Information Intelligence Inc., if available;
 - A land title search to determine the ownership history of the Site;
 - Verifying aspects of historical regulatory compliance with the Ontario Ministry of the Environment, Conservation and Parks (MOE or MECP);
 - MOE documents regarding the potential historical use of the Site for waste disposal sites, coal gasification plant waste sites, industrial sites which produced or used coal tar and related tars and PCB storage sites;
 - Ecolog Environmental Risk Information Service (Ecolog) environmental database search for agency records, applicable to the Site and Phase One Study Area;

- Interviews with persons knowledgeable of the Site and Study Area, including representatives of the present owner;
- A Site reconnaissance of the Site with the Site Representative, considered to be the person who has most knowledge of the Site and a reconnaissance of the Phase One Study Area to identify potentially contaminating activities associated with the following:
 - Current on-site operations;
 - Waste generation;
 - Fuel, chemical, and waste storage;
 - Exterior and building interior Site conditions including surface features, fill material, and wells; and,
 - Potential off-site sources and operations in the Study Area;
- Evaluation of the information gathered from the records review, interviews, and Site reconnaissance; and,
- Preparation and submission of this Phase One ESA report to the Client.

4 RECORDS REVIEW

The review and evaluation of available records for the Phase One Property and Phase One Study Area are presented in the sections below.

(a) General

(i) Phase One Study Area Determination

Based on historical information and the Conservation Halton zoning and land use data, the Phase One Property and Phase One Study Area have historically been developed for a mixture of residential and agricultural land-uses located approximately 250 m from the Site. The Phase One Study Area within a distance of 250 m radius from the Phase One Property is considered applicable for this Phase One ESA.

The Phase One Property and Phase One Study Area are shown in **Figure 1**.

(ii) First Developed Use Determination

One (1) residential building and a shed / garage (constructed circa 1985) is located on the Phase One Property; The buildings were historically and currently utilized as residential.

(iii) Fire Insurance Plans (FIPs) and Underwriters' Reports

A request was placed with Ecolog ERIS for available fire insurance plans (FIPs) and/or underwriter's reports for the Phase One Property and/or the adjacent / neighbouring properties. The search indicated that no records were available for neither the Site and/or for the surrounding properties.

(iv) Site Occupancy Records

A City Directory search was completed by Ecolog ERIS for the Site and selected surrounding property addresses. However, based on the current library closures the City Directories for this Site were not available at this time.

(v) Previous Environmental Reports

No previous environmental reports were provided to Landtek for review.

5 ENVIRONMENTAL SOURCE INFORMATION

(a) EcoLog Environmental Risk Information Service (ERIS)

An Ecolog ERIS search provides information from federal, provincial and private source databases and was searched for information relating to the Site and the Study Area. The Ecolog ERIS report is presented in **Appendix A**. The available databases were searched to determine if the Site, adjoining and/or neighboring properties were listed and if the listing(s) relate to actual or potential environmental contamination to the Site.

No Provincial, Federal, and/or Private Records were available for the Site and a total of 12 records were listed for the 0.25 km search radius from ERIS. Based on the nature of the listing and the distance to the Site the environmentally significant database records are summarized in **Table 2** below:

Table 2: ERIS Records – Site and Phase One Study Area

Property Address	Approximate Distance (m) /Direction to Site	Database / Source of Information	Details	Concerns
Burnhamthorpe Rd W and 6 th Line	Approximately 25 m east of the Site	Ontario Spills	In 2018, 200 L of hydraulic oil was released to a ditch.	Based on the release into an off-ditch (draining away from the Site), this spill is considered a PCA that is not anticipated to represent an APEC on the Site.
Various	Various	Water Well Information Systems and/or Boreholes	Water wells, including potable wells, were reported to be located within the Study Area. Stratigraphy was generally reported as sands and clays underlined by red Shale bedrock at 10.7 m to 12.5 m bgs (35 ft to 41). Groundwater was reported at depths ranging from 15.8 m to 20.7 m below ground surface (52 ft to 68 ft).	None

Based on the Ecolog ERIS report reviewed no PCAs were identified for the Site; the following PCAs were identified for the adjacent and/or neighboring properties:

PCA	Location / Direction to the Site	APEC	Rational
Other 1: Spill	Burnhamthorpe Rd W and 6 th Line / Approximately 25 m east of the Site	No	In 2018, 200 L of hydraulic oil was released to a ditch. Based on the release into an off-ditch (draining away from the Site), this spill is considered a PCA that is not anticipated to represent an APEC on the Site.

(b) Areas of Natural Significance

A request was made to Ecolog ERIS for a search of “Areas of Natural and Scientific Interest” (ANSIs) within approximately a 1.5 km radius of the Site (Reference Map: Areas of Natural and Scientific Interest (ANSI), Scale 1:22,000, Ontario Ministry of Natural Resources, April 2014), which was utilized to determine if any life science or earth science ANSI were located on the Site and/or surrounding properties. A database within the MNR was searched by Ecolog ERIS for potential life science and earth science ANSI’s. The following one (1) ANSI was reported to be on the Site and within the Study Area, as shown on **Figure 1**:

- Oakville-Milton Wetlands and Uplands ANSI (ID: 67435761): A Life Science ANSI with Provincial significance.

A copy of the communication is provided in **Appendix D**.

The Region of Halton has defined Natural Heritage Systems “natural areas such as woodlands, wetlands, streams, creeks, valley lands and meadows that provide a habitat for diverse plants and animals. Natural areas are healthy and thrive when connected to form a natural heritage system. The natural heritage system in Halton is made up of the regional natural heritage system and the greenbelt natural heritage system”. The Site has a Region of Halton designated Natural Heritage System on the central portion of the property, as shown on **Figure 1**.

Based on the review of the ANSI map, Landtek determined that the Phase One Site is considered to include or in part be within 30 meters both a water body and an ANSI.

(c) Reports Submitted to the MOE (under Freedom of Information)

A request was sent to the MOE Freedom of Information (FOI) and Protection of Privacy office in order to determine if there were any recorded environmental issues or violations associated with the Site and/or have issued any approvals, licenses, or permits for the locations, including registration as a PCB storage facility, and/or if a waste generator number has ever been assigned to any of the properties, issued control orders or violation notices, and/or if the MOE has knowledge or record that any of the subject properties have ever been used or is currently being used for waste disposal.

A response to the above noted request has not been received at the time of report preparation. Once the response is received, Landtek will review the records and if any pertinent environmental information is found an update will be reported to the Client.



(b) Physical Setting Sources

(i) Historical Map and Aerial Photographs

A historical map of the Township of Trafalgar South dated 1875 was reviewed. The map was provided via the Canadian County Atlas Digital Project and indicated that the Site was owned by Geo K Marlatt (southern portion) and Jas Featherstone (northern portion) and was shown to be estate lands / agricultural use.

Aerial photographs of the Site and Study Area were obtained from Google Earth, Ecolog ERIS and current satellite imagery. The photographs are presented in **Appendix B** and the information from these sources is summarized in **Table 3** below.

Table 3: Aerial Photograph Information

Year	Site	Study Area
1934	The Site appears agricultural in use.	The surrounding land-use appears to be agricultural and residential.
1965	Similar to the 1934 airphoto.	Similar to the 1934 airphoto.
2004	The Site appears to be residential. One building (a house) appears to be present on the southern portion of the Site, the remained appears to be agricultural in use.	Similar to the 1965 airphoto, with the exception of the Highway 407 is constructed to the north of the Site.
2009	Similar to the 2004 airphoto.	Similar to the 2004 airphoto.
2019	Similar to the 2009 airphoto.	Similar to the 2009 airphoto, with the exception of the William Halton Parkway is constructed to the north the Site and the residential subdivision to the east of the Site is under construction.

Based on a review of the aforementioned aerial photographs, no PCAs were identified for the Site and/or surrounding properties.

(ii) Topography, Hydrogeology and Geology

Geological and Hydrogeological information sources were reviewed to determine the nature of the subsurface strata on Site.

The Ontario Geology Survey has a web application, OGS Earth, which provides geoscience data, collected by the Mines and Minerals division, which can be viewed using user-friendly geographic information programs such as Google Earth. A review of this data and geotechnical experience in the area indicates that the predominant Quaternary geology at the Site consists of deposits of silt to silty clay overlying siltstone, dolostone, shale and limestone bedrock of the Queenston Formation. There is no indication that there are significant depths of fill on the property associated with old landforms such as ravines and watercourses.

Depth to bedrock within the Study Area was referenced within the Ecolog ERIS report (see **Section 5(a) (i)**) at depths ranging from 10.7 m to 12.5 m below ground surface (35 ft to 41).

Geologic and Ontario Base Map data and ground surface topography indicate that the elevation of the Site ranges between 181 metres above sea level (masl) and 193 masl.

The topography of the land in the vicinity of the Site slopes towards the south/southeast, towards Morrison Creek, located approximately 550 m (0.55 km) southeast of the Site. Drainage swales which ultimately discharge into Morrison Creek are present on the Phase One Property, as shown on **Figure 2**.

Based on the local topography and mapping, the direction of groundwater flow is inferred to be southeasterly.

(iii) Fill Material

No obvious indications of fill material were inferred to be on Site, based on the available background documentation reviewed.

(iv) Water Bodies and Areas of Natural Significance

All reasonable inquiries were made to review the nearest bodies of water and results indicate that a water body / wetland is located on the southern portion of the Site, as shown on **Figure 2**.

In addition, drainage swales which ultimately discharge into Morrison Creek are located on the Phase One Property, as shown on **Figure 2**.

(v) Well Records

A search of the MOECC Water Well Records database was reviewed for the Site and the Phase One Study Area. No water supply wells are reported to be located on the Site; five historical domestic water supply wells are reported to be located within the Study Area ranging from 55 m to 245 m from the Site.

(c) Site Operating Records

The following site records were requested (in accordance with O. Reg. 153/04) but no information was able to be found or reported for review.

- Material Safety Data Sheets
- Inventories of chemicals, chemical usage, and chemical storage areas
- Inventory of above ground storage tanks and underground storage tanks.
- Waste management records
- Records of spills and records of discharges
- Emergency response and contingency plans, including spill prevention.
- Environmental Audit Reports

6 INTERVIEWS

Landtek conducted an interview with Mr. Leo Wu of Sixth Oak Inc. for the Site. The following information has been compiled from the interview responses:

- The primary building on Site was constructed in 1985 as a residence. The Site has operated as such since;
- No environmental concerns were raised regarding the Site; and
- No known USTs or ASTs have ever been present on the Site.

No concerns were anticipated based on the interview responses.

7 SITE RECONNAISSANCE

On November 25, 2020, Ms. Nicole Harper, H.B.Sc. of Landtek conducted a walkover of the Phase One Study Area (i.e., properties located within 250 m of the Site) in conjunction with a review of regulatory/historical information pursuant to O. Reg. 153/04. Landtek was unaccompanied for the walkover of the Site and the Study Area which involved the assessment of visible, publicly accessible portions of adjoining and neighbouring properties within the Phase One Study Area.

(a) General Requirements

Date and Time of Investigation	November 25, 2020; 11 am to 2 pm
Weather Conditions	Sunny, 8 degrees C
Facility Operating During Site Reconnaissance	A residential dwelling
Qualifications of the Person Conducting Investigations	Principal Site Investigator: Nicole Harper, H. B.Sc. Qualified Person: Paul Blunt, P.Eng.

Photographs of typical site conditions were taken and selected photographs are provided in **Appendix C**.

(i) Building Exit and Entry Points

At the time of the Landtek's Site visit, a 2 storey residential building with a basement and a garage / shed were occupying the Site. The building was built in 1985 as a residential dwelling and was used as such to present.

(ii) Aboveground and Underground Storage Tanks

One (1), propane aboveground storage tank (AST) was observed on the Site, as shown on **Figure 2**. No additional ASTs were observed and/or reported.

No underground storage tanks (USTs) were identified on the Phase One Property at the time of the Site inspection. In addition, there was no visual evidence of vent / fill pipes that would indicate UST's.

Based on the Site visit observations the following PCAs was identified for the Site; no PCAs were identified for the adjacent and/or neighboring properties.

PCA	Location / Direction to the Site	APEC	Rational
28. Gasoline and associated products stored in fixed tanks	The Site	No	Propane (i.e., a gas) is not considered a PCA that is not anticipated to represent an APEC on the Site.

(iii) Drains, Pits and Sumps

No floor drains, pits or sumps were observed during the visual Site inspection.

(iv) Unidentified Substances

No unidentified substances were observed during the visual Site inspection.

(v) Staining and Corrosion

No staining or corrosion was observed during the visual Site inspection.

(vi) Existing and Former Wells

No abandoned wells were reported to Landtek or observed during the visual Site inspection. The Site utilizes a potable groundwater well, as shown on **Figure 2**.

Water is currently supplied from municipal sources to portions of the Study Area (northeastern, eastern and southeastern portions), while the remainder utilizes potable groundwater wells, as shown on **Figure 1**.

(b) Specific Observations at Phase One Property

At the time of the Landtek's Site visit, a 2 storey residential building with a basement and a garage / shed were occupying southern portion of the Site. The buildings were built in 1985 and were utilized as residential to present. The remainder of the Site was utilized for agricultural purposes.

(c) Building Descriptions

At the time of the Landtek's Site visit, a 2 storey residential building with a basement and a garage / shed were occupying southern portion of the Site. The buildings were built in 1985.

(d) Exterior Site Conditions

The surficial features included forested, wetlands, grassed and treed areas and agricultural crops (corn).

There was no evidence of stained or odorous soils at the time of the Site visit.

(e) Underground Utilities, Services and Sewage Works

Portions of the Phase One Study Area (northeastern, eastern and southeastern) are serviced with electricity, natural gas, telecommunications, municipal storm and sanitary sewers, and municipal water. The remainder of the Study Area is supplied with electricity and telecommunications.

The Site utilizes a potable groundwater well and an on-Site septic system, as shown on **Figure 2**.

(f) Stressed Vegetation

There was no evidence of vegetation stress at the time of the Site visit.

(g) Fill Materials

No fill material was observed on the Site at the time of the Site inspection.



(h) Potentially Contaminating Activity

During the Site visit the following PCA was observed on the Phase One Property:

PCA	Location / Direction to the Site	APEC	Rational
28. Gasoline and associated products stored in fixed tanks	The Site	No	Propane (i.e., a gas) is considered a PCA that is not anticipated to represent an APEC on the Site.

(i) Watercourses, Ditches or Standing Water

No watercourses were observed on the Site.

Ditches were observed along the eastern and southern property boundaries.

Standing water (a pond /wetland) was observed on the southern portion of the Phase One Property at the time of the Site visit, as shown on **Figure 2**.

(j) Air Emissions

No air emissions were being generated from the Phase One Property at the time of the Site visit.

(k) Enhanced Investigation Property

Enhanced Investigation Property, as defined in the O. Reg. 153/04, outlines how a Phase One Property is to be considered an Enhanced Investigation Property if the property is used, or has ever been used, in whole or in part for an industrial use (which involves assembling, fabricating, manufacturing, processing, producing, storing, warehousing or distributing goods or raw materials) or for a garage, bulk liquid dispensing facility or dry cleaning operation.

The Phase One Property is therefore, not considered an enhanced investigation property.

(I) Written Description of Investigation

(i) Investigation Details

Landtek conducted a Site reconnaissance of the Phase One Property to document in detail all areas of the Site. Two (2) buildings, a residence and shed/garage (constructed in 1985) are located on the Phase One Property; the buildings were historically and are currently utilized as residential (circa 1985 to present). The exterior of the Phase One Property was visually inspected to document the location of underground utilities and service corridors; water wells; ground cover; areas of stained soil, vegetation and/or pavement; stressed vegetation; areas where fill and debris material appear to have been placed or graded; potentially contaminating activities; and unidentifiable substances.

The properties within the Phase One Study Area were visually inspected from public access ways to identify, locate and document potentially contaminating activities, water bodies, and areas of natural significance.

Photographs were taken to record findings during the Site reconnaissance. Selected photographs taken during the Site reconnaissance are presented in **Appendix C**.

(ii) Investigation of Site Visit Findings

There was no evidence of chemical manufacturing/storage, and/or underground storage tanks (USTs) on the Site. There was no observed evidence of fill pipes, breather pipes or ground depressions that may indicate the presence of any UST's. One (1) propane above ground storage tank (AST) was observed on the Site. No additional ASTs were observed and/or reported.

The following was observed on the Site suggesting the existence of PCAs for the Site.

PCA	Location / Direction to the Site	APEC	Rational
28. Gasoline and associated products stored in fixed tanks	The Site	No	Propane (i.e., a gas) is considered a PCA that is not anticipated to represent an APEC on the Site.

Based on the background documents reviewed the following potentially contaminating activity was identified for the surrounding properties:

PCA	Location / Direction to the Site	APEC	Rational
Other 1: Spill	Burnhamthorpe Rd W and 6 th Line / Approximately 25 m east of the Site	No	In 2018, 200 L of hydraulic oil was released to a ditch. Based on the release into an off-ditch (draining away from the Site), this spill is considered a PCA that is not anticipated to represent an APEC on the Site.

8 REVIEW AND EVALUATION OF INFORMATION

(a) Current and Past Uses

Current and past uses of the Site were determined from historical aerial photographs, interviews, chain of title documents and topographic mapping.

The Site is currently zoned residential and agricultural. Based on information sources reviewed, the Site land-use was historically agricultural, upon which time the Site was developed with the current building (circa 1985); the building was historically and is currently utilized as a residence.

(b) Potentially Contaminating Activity

Based on the findings of the records review, interviews and the Site reconnaissance completed, PCAs were identified. The PCAs are related to:

- PCA A: Gasoline and associated products stored in fixed tanks (PCA 28). A propane AST was observed on the Site;
- PCA B: In 2018, a spill of hydraulic oil was reported to an off-Site ditch which drains away from the Site, this spill is considered a PCA that is not anticipated to represent an APEC on the Site.

(c) Areas of Potential Environmental Concern

No PCAs were anticipated to represent APECs on the Site.

(d) Phase One Conceptual Site Model

Information sources for the development of a Conceptual Site Model was gathered from numerous sources (i.e., aerial photographs, environmental database searches, physical setting sources, interviews, and a Site reconnaissance), which reduces the risk of not identifying either a current or former property use for a PCA.

The existing buildings, adjacent property uses, roadways, water wells, locations of PCAs, geological information and inferred groundwater flow direction is identified in the Phase One Conceptual Site Model (CSM), provided in **Figure 2**.

9 CONCLUSIONS

(a) Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the results of the Phase One ESA, a Phase Two ESA is **not** recommended to be completed for this Site no APECs were identified.

No APECs were identified on the Site.

The current land-use for the Site is zoned as residential (southern corner) and agricultural. The zoning of the area includes residential and agricultural land-uses, a municipal water reservoir is located to the east of the Site. The Site is to be redeveloped into industrial, parkland and residential ("mixed use").

O. Reg. 153/04 stipulates that for a property, the Site Condition Standards (SCS) that are applicable to the property are the standards that are applicable to the most sensitive type of property use, in this case "residential" is the most sensitive land use, therefore the most stringent land-use (i.e., "residential") is considered as the intended land-use. **Since there is no change to a more sensitive land use a Record of Site Condition is NOT required.**

(b) Signatures

Closure

We trust this report is satisfactory for you purposes. If you have any questions regarding our submission, please do not hesitate to contact this office.

Yours truly,

LANDTEK LIMITED



Nicole Harper, H.B.Sc.



Paul Blunt, P.Eng., QP_{ESA}

Qualifications

Investigative assessment work was conducted by Ms. Nicole Harper, H.B.Sc., who has over 10 years of related environmental assessment experience including completion of numerous Phase One and Two ESA's and Site Remediation activities.

Mr. Paul J Blunt, P.Eng. is a Senior Environmental Engineer with Landtek and has conducted and supervised Phase One ESAs for 30 years. Mr. Blunt obtained a B.Sc. in Chemical Engineering from University of Windsor in 1987 and is a licensed Professional Engineer in the Province of Ontario. Mr. Blunt has conducted and supervised Phase One Environmental Site Assessments over 1500 environmental site assessments on a variety of agricultural, residential, industrial, commercial and industrial properties. Mr. Blunt also has extensive experience in conducting Phase Two Environmental Site Assessments and is therefore familiar with how to assess potential concerns identified during the Phase One ESA. Mr. Blunt has conducted and supervised environmental projects throughout Canada, the United States and Australia.

Limitations

This report was prepared for the sole use of the Client, their legal counsel, and Client designated and authorized financial and mortgage institutions. It is intended to provide an evaluation of the current environmental conditions at the subject site. Any use of this report, or decisions made based on it, by an unauthorized party, is the responsibility of the unauthorized party. Landtek Limited accepts no responsibility for damages of any type suffered by the unauthorized party as a result of actions or decisions made based on this report.

The conclusions and recommendations given in this report are based on information obtained from various sources noted and a visual examination of the site. It is based on the conditions of the subject property at the time of the field investigation supplemented by a review of historical information to assess environmental conditions at the site reported. Landtek Limited assumes that information provided by others is factual and accurate, and accepts no responsibility for any deficiency, misstatement, or inaccuracy in this report from information provided by others.

Sampling and analysis of soil, groundwater, or other materials was not carried out as part of the scope of work. The findings of the assessment cannot be extended to reflect portions of the site that were unavailable for direct observation by Landtek Limited.

This assessment should not be considered a comprehensive audit that eliminates all risks of encountering environmental problems. There is no warranty expressed or implied by this report concerning the status of the study site.

10 REFERENCES

Websites

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<http://maps.google.ca/maps>
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<https://library.mcmaster.ca/maps/airphotos/>
<https://www.ontario.ca/page/make-natural-heritage-area-map>
http://www.giscoeapp.lrc.gov.on.ca/matm/Index.html?site=Make_A_Topographic_Map&viewer=MATM&locale=en-US

Government of Ontario Environmental Registry web-site (<https://www.ebr.gov.on.ca/ERS-WEBExternal/displaynoticecontent.do?noticeId=MT10NjQz&statusId=MTg5NjM4&language=en>)

MOECC small and large landfill websites (<https://www.ontario.ca/environment-and-energy/small-landfill-sites-list?drpDistrict=Durham&drpStatus=all>)

<https://www.ontario.ca/environment-and-energy/map-large-landfill-sites?region=Central>)

Maps

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OGS Earth. Quaternary Geology of the Province of Ontario at a compilation scale of 1:1000000. Ontario Ministry of Northern Development and Mines.

Area of Natural and Scientific Interest Map, Ontario Ministry of Natural Resources, at a compilation scale of 1:4,513, 2014.

Other Sources

Ecolog ERIS Ltd. Environmental Database Custom Report.

Opta, Information Intelligence.

Ontario City Directory

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Aerial Photographs

Google Earth Pro historical images

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Environmental Protection Act. Ontario Regulation 153/04, Records of Site Condition – Part XV.1 of the Act. Under Environmental Protection Act, R.S.O. 1990, c. E.19.

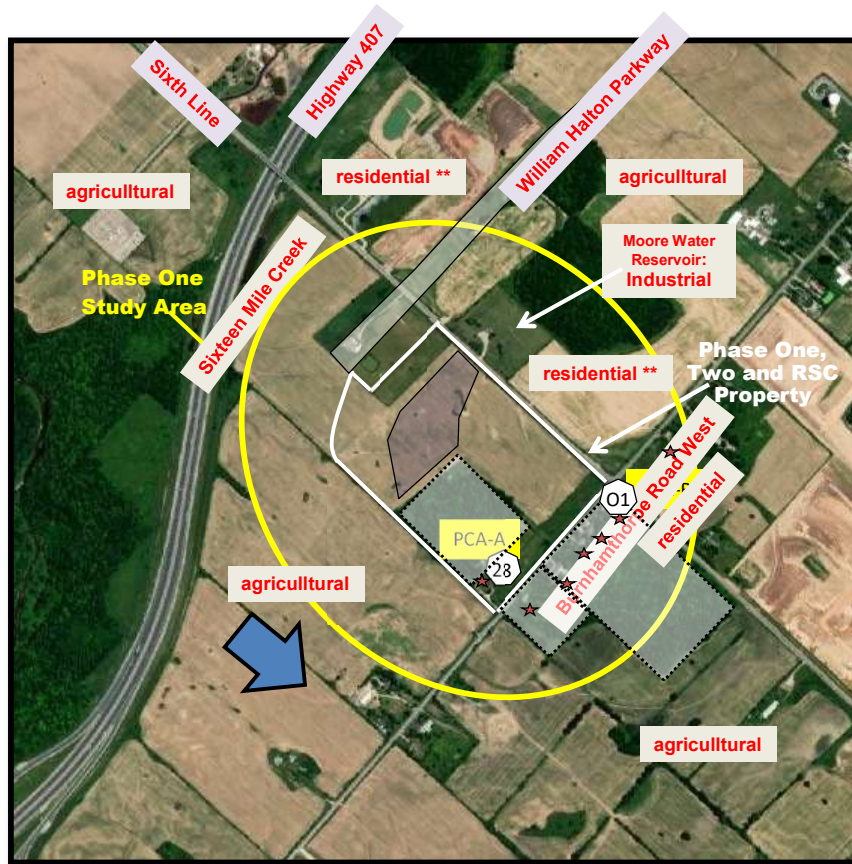
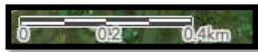
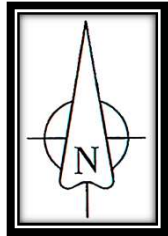


FIGURES

Potentially Contaminating Activity

(PCA)

- PCA A. Gasoline and Associated Products Storage in Fixed Tanks (PCA 28)
- PCA B. Spill (PCA Other 1 (O1))



** Residential subdivision, under construction

★ Potable Groundwater Well



Inferred Groundwater Flow Direction



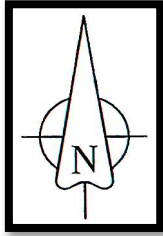
Oakville-Milton Wetlands and Uplands ANSI (ID: 67435761)



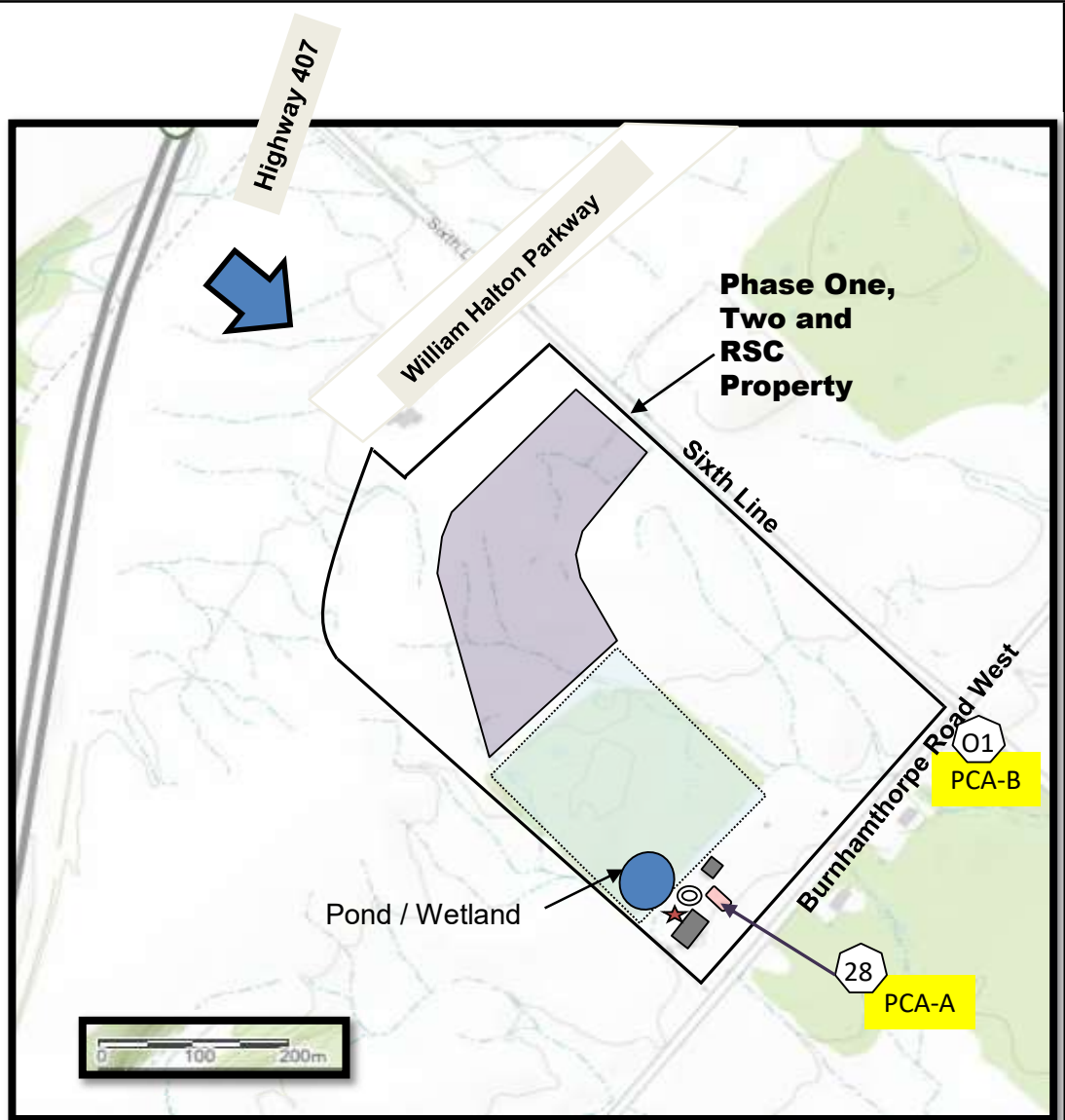
Natural Heritage System (Region of Halton)



Scale:	As shown	Date:	December 2020
Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Figure 1 - Site Location Plan & PCAs		
Project No.	20383		



No APECs were identified on The Phase 1 Property



Legend

- ⊙ Septic Tile Bed
- ★ Potable Groundwater Well
- ◇ Propane AST
- - - Drainage swale (Halton Conservation)
- Oakville-Milton Wetlands and Uplands ANSI (ID: 67435761)
- ▭ Natural Heritage System (Region of Halton)
- On-Site Building
- ➡ Inferred Groundwater Flow Direction



Scale:	As shown	Date:	December 2020
Project:	Phase One ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Figure 2 - APECs		
Project No.	20383		

Potentially Contaminating Activity

PCA A: Gasoline and Associated Products Storage in Fixed Tanks (PCA 28)
 PCA B: Historical Spill (O1)

APPENDIX A
Ecolog ERIS Report



DATABASE REPORT

Project Property: *Melrose
103 Burnhamthorpe Road West
Oakville ON L6M 4K5*

Project No: *20383*

Report Type: *Standard Express Report*

Order No: *20312400014*

Requested by: *Landtek Limited*

Date Completed: *November 24, 2020*

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Executive Summary

Property Information:

Project Property: *Melrose
103 Burnhamthorpe Road West Oakville ON L6M 4K5*

Project No: *20383*

Coordinates:

Latitude: *43.4927195*
Longitude: *-79.7501857*
UTM Northing: *4,816,291.46*
UTM Easting: *601,052.97*
UTM Zone: *17T*

Elevation: *622 FT
189.58 M*

Order Information:

Order No: *20312400014*
Date Requested: *November 24, 2020*
Requested by: *Landtek Limited*
Report Type: *Standard Express Report*

Historical/Products:

Executive Summary: Report Summary

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

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	1	1
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	8	8
Total:			0	12	12

Executive Summary: Site Report Summary - Project Property

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		lot 16 con 1 ON Well ID: 2802126	SE/152.0	-2.70	14
2	EHS		38 Burnhamthorpe Rd W Oakville ON L6M4K4	SE/158.0	-2.76	16
3	WWIS		lot 16 con 1 ON Well ID: 2803265	ESE/168.7	-2.46	16
4	WWIS		lot 16 con 1 ON Well ID: 2802130	E/178.6	-2.67	19
5	WWIS		lot 16 con 1 ON Well ID: 2803321	ESE/184.2	-3.30	22
6	WWIS		90 BURNHAM THORPE W lot 16 con 1 ON Well ID: 7166442	SE/190.0	-3.80	26
7	CA	R.M. OF HALTON	SIXTH LINE BURNHAMTHORPE RD. OAKVILLE TOWN ON	E/203.4	-1.68	28
7	SPL		Burnhamthorpe Rd West and 6th Line Oakville ON	E/203.4	-1.68	29
7	ECA	Star Oak Developments Limited	Northeast corner of Sixth Line and Burnhamthorpe Road Oakville ON L6J 0A7	E/203.4	-1.68	29
8	WWIS		6TH LINE & BURNHAMTHORPE RD. WEST Oakville ON Well ID: 7114832	ENE/208.4	-0.99	29
9	WWIS		lot 16 con 1 ON Well ID: 2802127	S/225.4	-4.08	34
10	WWIS		lot 16 con 2 ON	SW/248.6	-1.83	37

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
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Well ID: 2807205

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
R.M. OF HALTON	SIXTH LINE BURNHAMTHORPE RD. OAKVILLE TOWN ON	E	203.39	7

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Oct 31, 2020 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Star Oak Developments Limited	Northeast corner of Sixth Line and Burnhamthorpe Road Oakville ON L6J 0A7	E	203.39	7

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	38 Burnhamthorpe Rd W Oakville ON L6M4K4	SE	158.02	2

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Burnhamthorpe Rd West and 6th Line Oakville ON	E	203.39	7

WWIS - Water Well Information System

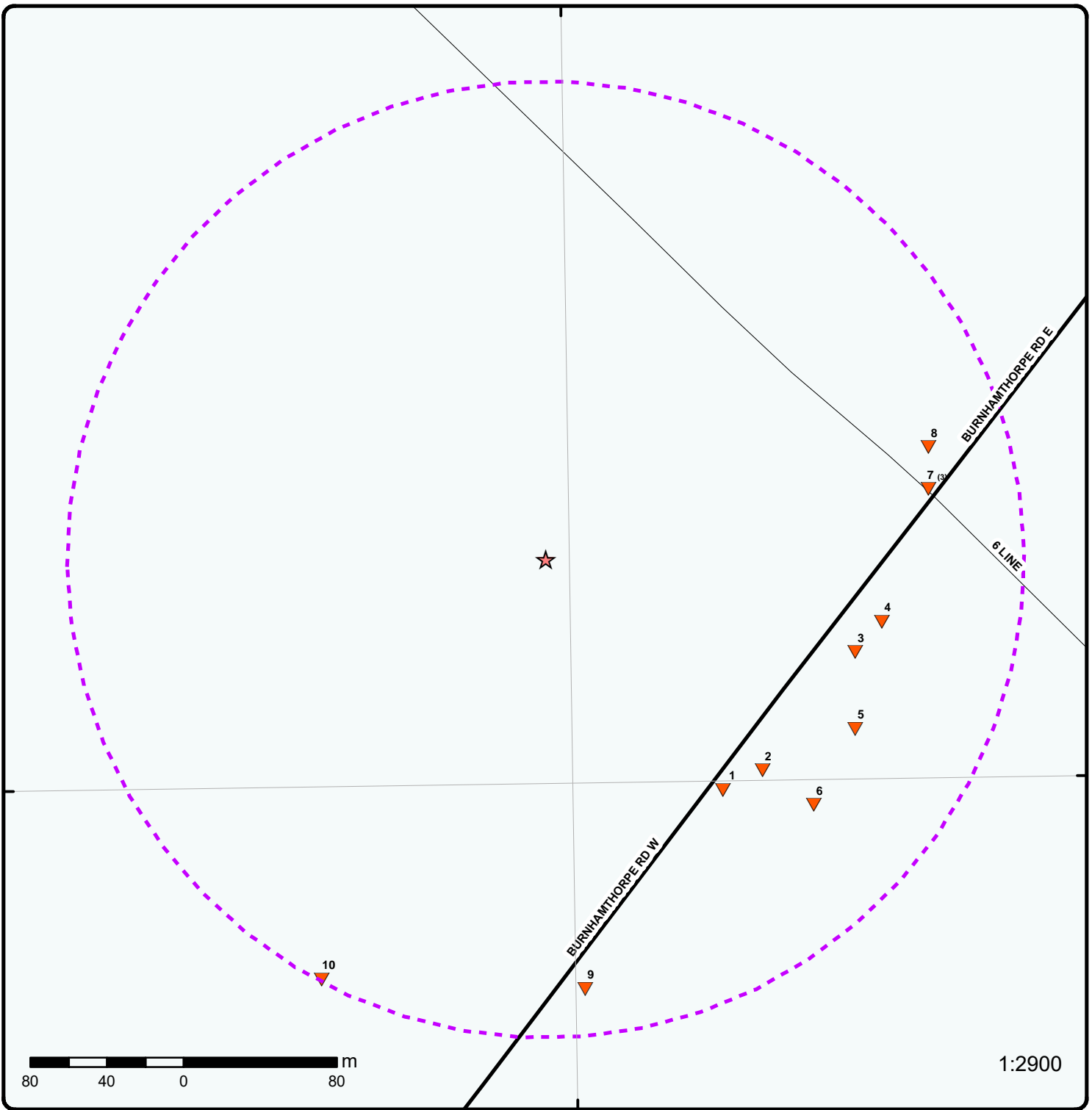
A search of the WWIS database, dated Apr 30, 2020 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 16 con 1 ON <i>Well ID:</i> 2802126	SE	151.95	<u>1</u>
	lot 16 con 1 ON <i>Well ID:</i> 2803265	ESE	168.73	<u>3</u>
	lot 16 con 1 ON <i>Well ID:</i> 2802130	E	178.60	<u>4</u>
	lot 16 con 1 ON <i>Well ID:</i> 2803321	ESE	184.25	<u>5</u>
	90 BURNHAM THORPE W lot 16 con 1 ON <i>Well ID:</i> 7166442	SE	190.02	<u>6</u>
	6TH LINE & BURNHAMTHORPE RD. WEST Oakville ON <i>Well ID:</i> 7114832	ENE	208.42	<u>8</u>
	lot 16 con 1 ON <i>Well ID:</i> 2802127	S	225.40	<u>9</u>
	lot 16 con 2 ON <i>Well ID:</i> 2807205	SW	248.59	<u>10</u>

79°45'W

43°29'30"N

43°29'30"N



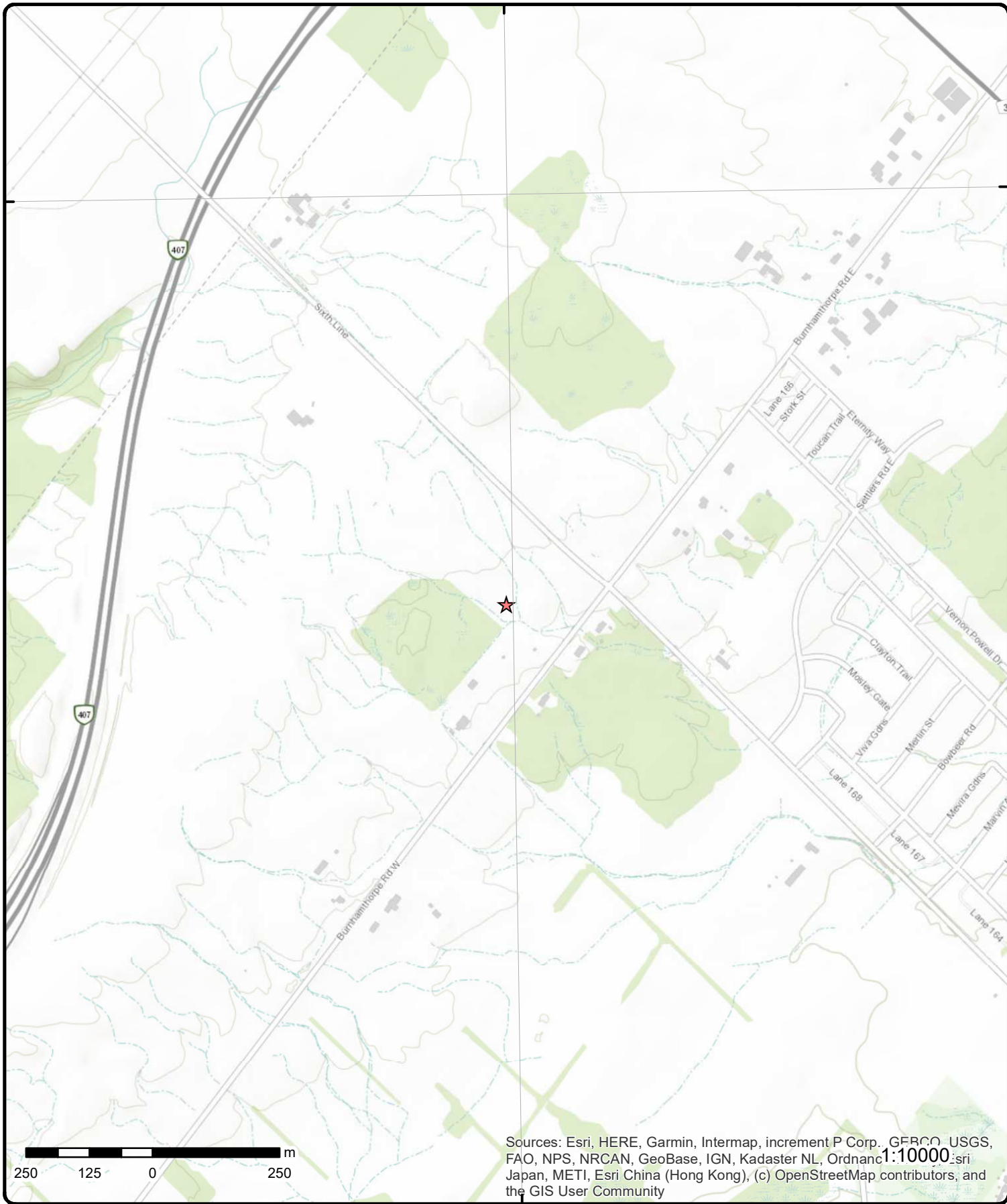
Map : 0.25 Kilometer Radius

Order Number: 20312400014

Address: 103 Burnhamthorpe Road West, Oakville, ON



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



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Aerial Year: 2015

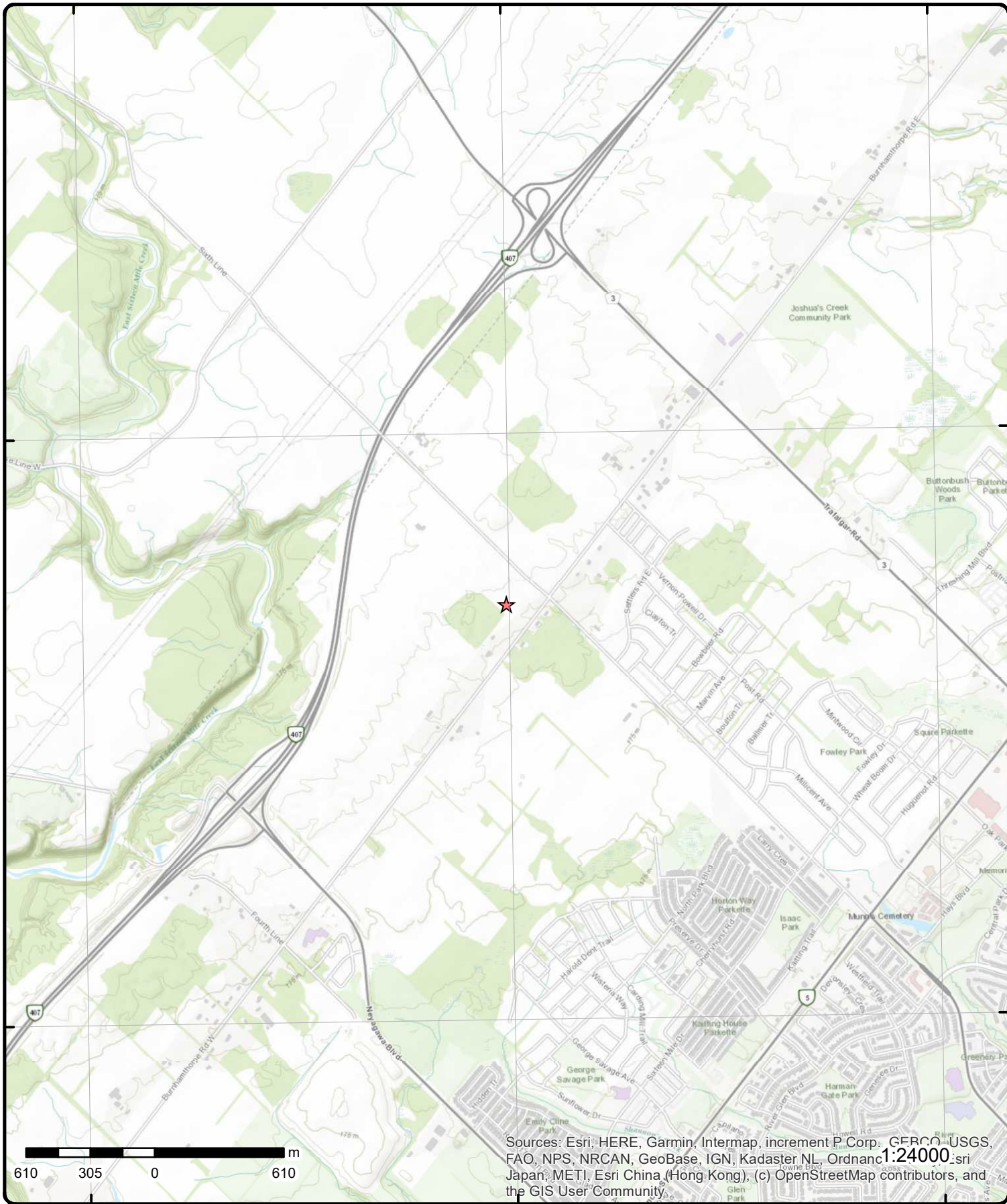
Address: 103 Burnhamthorpe Road West, Oakville, ON

Source: ESRI World Imagery

Order Number: 2031240014



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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community.

Topographic Map

Address: 103 Burnhamthorpe Road West, ON

Source: ESRI World Topographic Map

Order Number: 2031240014



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	SE/152.0	186.9 / -2.70	lot 16 con 1 ON WWIS

Well ID: 2802126
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/4/1957
Selected Flag: Yes
Abandonment Rec:
Contractor: 1642
Form Version: 1
Owner:
Street Name:
County: HALTON
Municipality: OAKVILLE TOWN
Site Info:
Lot: 016
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802126.pdf

Bore Hole Information

Bore Hole ID: 10148680
DP2BR: 35
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 11/7/1956
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 185.159301
Elevrc:
Zone: 17
East83: 601145.6
North83: 4816171
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

**Overburden and Bedrock
Materials Interval**

Formation ID: 931427720
Layer: 3
Color: 7
General Color: RED
Mat1: 17
Most Common Material: SHALE
Mat2:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		35			
Formation End Depth:		58			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931427719			
Layer:		2			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		10			
Formation End Depth:		35			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931427718			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		10			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		962802126			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10697250			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930252988			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		38			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930252989			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		58			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		992802126			
Pump Set At:					
Static Level:		9			
Final Level After Pumping:		50			
Recommended Pump Depth:					
Pumping Rate:		0			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933604171			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		55			
Water Found Depth UOM:		ft			
2	1 of 1	SE/158.0	186.8 / -2.76	38 Burnhamthorpe Rd W Oakville ON L6M4K4	EHS
Order No:		20170907137		Nearest Intersection:	
Status:		C		Municipality:	Oakville
Report Type:		Standard Report		Client Prov/State:	ON
Report Date:		14-SEP-17		Search Radius (km):	.25
Date Received:		07-SEP-17		X:	-79.748806
Previous Site Name:				Y:	43.491712
Lot/Building Size:		0.6 acres			
Additional Info Ordered:					
3	1 of 1	ESE/168.7	187.1 / -2.46	lot 16 con 1 ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	2803265			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	12/29/1969
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1307
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	HALTON
Elevation (m):				Municipality:	OAKVILLE TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	DS N
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2803265.pdf

Bore Hole Information

Bore Hole ID:	10149807	Elevation:	184.486511
DP2BR:	38	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	601214.6
Code OB Desc:	Bedrock	North83:	4816243
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	11/3/1969	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931431392
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	11
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931431393
Layer:	2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		7			
General Color:		RED			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		11			
Formation End Depth:		38			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931431394			
Layer:		3			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		38			
Formation End Depth:		52			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		962803265			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10698377			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930254785			
Layer:		1			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:					
Depth To:		52			
Casing Diameter:		30			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		992803265			
Pump Set At:					
Static Level:		25			
Final Level After Pumping:		50			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:		50			
Pumping Rate:		1			
Flowing Rate:					
Recommended Pump Rate:		1			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934709278			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		48			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934969582			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		48			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934450074			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		49			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934166545			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		50			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933605620			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		52			
Water Found Depth UOM:		ft			

<u>4</u>	1 of 1	E/178.6	186.9 / -2.67	lot 16 con 1 ON	WWIS
Well ID:	2802130			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	1/15/1962
Sec. Water Use:	0			Selected Flag:	Yes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	5417
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	HALTON
Elevation (m):				Municipality:	OAKVILLE TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	DS N
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802130.pdf

Bore Hole Information

Bore Hole ID:	10148684	Elevation:	185.095733
DP2BR:	39	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	601228.6
Code OB Desc:	Bedrock	North83:	4816259
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	9/8/1961	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931427731
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	14
Formation End Depth:	33
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931427730
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		14			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931427732			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		33			
Formation End Depth:		39			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931427733			
Layer:		4			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		39			
Formation End Depth:		63			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		962802130			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10697254			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930252996			
Layer:		1			
Material:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		41			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930252997			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		63			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		992802130			
Pump Set At:					
Static Level:		12			
Final Level After Pumping:		53			
Recommended Pump Depth:		55			
Pumping Rate:		2			
Flowing Rate:					
Recommended Pump Rate:		2			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		45			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933604177			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60			
Water Found Depth UOM:		ft			

5 1 of 1 ESE/184.2 186.3 / -3.30 lot 16 con 1 ON **WWIS**

Well ID:	2803321	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	3/16/1970
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4602
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	HALTON
Elevation (m):		Municipality:	OAKVILLE TOWN
Elevation Reliability:		Site Info:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	DS N
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2803321.pdf

Bore Hole Information

Bore Hole ID:	10149863	Elevation:	184.233016
DP2BR:	41	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	601214.6
Code OB Desc:	Bedrock	North83:	4816203
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	2/16/1970	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931431602
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	17
Formation End Depth:	37
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931431603
Layer:	3
Color:	7
General Color:	RED
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	37
Formation End Depth:	41
Formation End Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931431604			
Layer:		4			
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		41			
Formation End Depth:		74			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931431601			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		17			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		962803321			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10698433			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930254871			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		74			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930254870		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:			43		
Casing Diameter:			6		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			992803321		
Pump Set At:					
Static Level:			21		
Final Level After Pumping:			71		
Recommended Pump Depth:			72		
Pumping Rate:			1		
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			2		
Water State After Test:			CLOUDY		
Pumping Test Method:			2		
Pumping Duration HR:			3		
Pumping Duration MIN:			0		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934709313		
Test Type:			Draw Down		
Test Duration:			45		
Test Level:			71		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934969622		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			71		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934450109		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			71		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934166581		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			71		
Test Level UOM:			ft		

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

Water ID: 933605694
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 51
Water Found Depth UOM: ft

Water Details

Water ID: 933605695
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 63
Water Found Depth UOM: ft

6	1 of 1	SE/190.0	185.8 / -3.80	90 BURNHAM THORPE W lot 16 con 1 ON	WWIS
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Well ID: 7166442 Construction Date: Primary Water Use: Not Used Sec. Water Use: Final Well Status: Abandoned-Supply Water Type: Casing Material: Audit No: Z123021 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	Data Entry Status: Data Src: Date Received: 8/4/2011 Selected Flag: Yes Abandonment Rec: Yes Contractor: 1663 Form Version: 7 Owner: Street Name: 90 BURNHAM THORPE W County: HALTON Municipality: OAKVILLE TOWN Site Info: Lot: 016 Concession: 01 Concession Name: DS N Easting NAD83: Northing NAD83: Zone: UTM Reliability:
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7167166442.pdf

Bore Hole Information

Bore Hole ID: 1003543197 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 5/16/2011 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	Elevation: 184.40277 Elevrc: Zone: 17 East83: 601193 North83: 4816163 Org CS: UTM83 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			1003875383		
Layer:			1		
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:			0		
Formation End Depth:					
Formation End Depth UOM:			ft		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			1003875384		
Layer:			2		
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:			ft		
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:			1003875392		
Layer:			2		
Plug From:			5		
Plug To:			58		
Plug Depth UOM:			ft		
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:			1003875391		
Layer:			1		
Plug From:			0		
Plug To:			5		
Plug Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			1003875390		
Method Construction Code:			B		
Method Construction:			Other Method		
Other Method Construction:			DECOMMISSION		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		1003875382			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1003875387			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		0			
Depth To:		58			
Casing Diameter:		6.625			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1003875388			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
<u>Water Details</u>					
Water ID:		1003875386			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1003875385			
Diameter:		7			
Depth From:		0			
Depth To:		58			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

[7](#)

1 of 3

E/203.4

187.9 / -1.68

R.M. OF HALTON
SIXTH LINE BURNHAMTHORPE RD.
OAKVILLE TOWN ON

CA

Certificate #: 3-0923-87-
Application Year: 87
Issue Date: 6/10/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client Postal Code: Project Description: Contaminants: Emission Control:					
<u>7</u>	2 of 3	E/203.4	187.9 / -1.68	Burnhamthorpe Rd West and 6th Line Oakville ON	SPL
Ref No:	7461-AYNLCL			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	2018/05/11			Health/Env Conseq:	2 - Minor Environment
Year:				Client Type:	
Incident Cause:				Sector Type:	Miscellaneous Communal
Incident Event:	Leak/Break			Agency Involved:	
Contaminant Code:	15			Nearest Watercourse:	
Contaminant Name:	HYDRAULIC OIL			Site Address:	Burnhamthorpe Rd West and 6th Line
Contaminant Limit 1:				Site District Office:	Halton-Peel
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:	n/a			Site Region:	Central
Environment Impact:				Site Municipality:	Oakville
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Land			Northing:	4816325
MOE Response:	Yes			Easting:	601255
Dt MOE Arvl on Scn:	2018/06/01			Site Geo Ref Accu:	
MOE Reported Dt:	2018/05/11			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	Highway Spills (usually highway accidents)
Incident Reason:	Operator/Human Error			Source Type:	Truck - Transport/Hauling
Site Name:	spill<UNOFFICIAL>				
Site County/District:	Regional Municipality of Halton				
Site Geo Ref Meth:					
Incident Summary:	Stablifters 100 L hydraulic oil to ditch				
Contaminant Qty:	200 L				
<u>7</u>	3 of 3	E/203.4	187.9 / -1.68	Star Oak Developments Limited Northeast corner of Sixth Line and Burnhamthorpe Road Oakville ON L6J 0A7	ECA
Approval No:	5276-B57FYW			MOE District:	
Approval Date:	2018-10-03			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Address:	Northeast corner of Sixth Line and Burnhamthorpe Road				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7641-B4SHZ8-14.pdf				
<u>8</u>	1 of 1	ENE/208.4	188.6 / -0.99	6TH LINE & BURNHAMTHORPE RD. WEST Oakville ON	WWIS
Well ID:	7114832			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	11/12/2008
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	6809

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Material:				Form Version:	5
Audit No:	M02966			Owner:	
Tag:	A075394			Street Name:	6TH LINE & BURNHAMTHORPE RD. WEST
Construction Method:				County:	HALTON
Elevation (m):				Municipality:	OAKVILLE TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114832.pdf

Bore Hole Information

Bore Hole ID:	1001880452	Elevation:	187.663574
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	601252
Code OB Desc:		North83:	4816350
Open Hole:	No	Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	9/22/2008	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002707361
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	15
Formation End Depth:	33
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002707359
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002707360			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		06			
Mat3 Desc:		SILT			
Formation Top Depth:		1			
Formation End Depth:		15			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1002707362			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		91			
Mat3 Desc:		WATER-BEARING			
Formation Top Depth:		33			
Formation End Depth:		35			
Formation End Depth UOM:		ft			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1002707364			
Layer:		1			
Plug From:		0			
Plug To:		27			
Plug Depth UOM:		ft			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1002707365			
Layer:		2			
Plug From:		27			
Plug To:		35			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1002707369			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Method Construction Code:		E			
Method Construction:		Auger			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1002707358			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1002707366			
Layer:		1			
Slot:		.01			
Screen Top Depth:		30			
Screen End Depth:		35			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
<u>Hole Diameter</u>					
Hole ID:		1002707363			
Diameter:		8			
Depth From:		0			
Depth To:		35			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>Bore Hole Information</u>					
Bore Hole ID:		1002707349		Elevation: 187.644393	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 17	
Code OB:				East83: 601253	
Code OB Desc:				North83: 4816350	
Open Hole:				Org CS: UTM83	
Cluster Kind:		This is a record from cluster log sheet		UTMRC: 3	
Date Completed:		9/16/2008		UTMRC Desc: margin of error : 10 - 30 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1002707353			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
<u>Method of Construction & Well Use</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction ID:		1002707352			
Method Construction Code:					
Method Construction:					
Other Method Construction:		AUGER			
<u>Pipe Information</u>					
Pipe ID:		1002707354			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1002707356			
Layer:					
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		12			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1002707355			
Layer:					
Slot:					
Screen Top Depth:		12			
Screen End Depth:		17			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1002707357			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Hole Diameter</u>					
Hole ID:		1002707351			
Diameter:		8			
Depth From:					
Depth To:		17			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

9	1 of 1	S/225.4	185.5 / -4.08	lot 16 con 1 ON	WWIS
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Well ID:	2802127	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/11/1957
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4838
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	HALTON
Elevation (m):		Municipality:	OAKVILLE TOWN
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	016
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	DS N
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802127.pdf

Bore Hole Information

Bore Hole ID:	10148681	Elevation:	183.279052
DP2BR:	34	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	601073.6
Code OB Desc:	Bedrock	North83:	4816067
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	6/5/1957	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931427721
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	4
Formation End Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Overburden and Bedrock
Materials Interval

Formation ID: 931427723
 Layer: 3
 Color:
 General Color:
 Mat1: 05
 Most Common Material: CLAY
 Mat2: 11
 Mat2 Desc: GRAVEL
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 20
 Formation End Depth: 34
 Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931427722
 Layer: 2
 Color:
 General Color:
 Mat1: 05
 Most Common Material: CLAY
 Mat2:
 Mat2 Desc:
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 4
 Formation End Depth: 20
 Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931427724
 Layer: 4
 Color: 7
 General Color: RED
 Mat1: 17
 Most Common Material: SHALE
 Mat2:
 Mat2 Desc:
 Mat3:
 Mat3 Desc:
 Formation Top Depth: 34
 Formation End Depth: 63
 Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 962802127
 Method Construction Code: 1
 Method Construction: Cable Tool
 Other Method Construction:

Pipe Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		10697251			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930252990			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		36			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930252991			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		63			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		992802127			
Pump Set At:					
Static Level:		7			
Final Level After Pumping:		50			
Recommended Pump Depth:					
Pumping Rate:		4			
Flowing Rate:					
Recommended Pump Rate:					
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			
<u>Water Details</u>					
Water ID:		933604172			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		39			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933604174			
Layer:		3			
Kind Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:		FRESH			
Water Found Depth:		61			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933604173			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		60			
Water Found Depth UOM:		ft			

10	1 of 1	SW/248.6	187.8 / -1.83	lot 16 con 2 ON	WWIS
Well ID:	2807205			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	2/7/1989
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1660
Casing Material:				Form Version:	1
Audit No:	16473			Owner:	
Tag:				Street Name:	
Construction Method:				County:	HALTON
Elevation (m):				Municipality:	OAKVILLE TOWN
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	016
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	DS N
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2807205.pdf

Bore Hole Information

Bore Hole ID:	10153466	Elevation:	185.468826
DP2BR:	37	Elevrc:	
Spatial Status:		Zone:	17
Code OB:	r	East83:	600936.2
Code OB Desc:	Bedrock	North83:	4816072
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	3
Date Completed:	6/10/1988	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931446265
Layer:	3

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		7			
General Color:		RED			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		37			
Formation End Depth:		76			
Formation End Depth UOM:		ft			

**Overburden and Bedrock
Materials Interval**

Formation ID:		931446263			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		85			
Mat2 Desc:		SOFT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			

**Overburden and Bedrock
Materials Interval**

Formation ID:		931446264			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		09			
Mat3 Desc:		MEDIUM SAND			
Formation Top Depth:		20			
Formation End Depth:		37			
Formation End Depth UOM:		ft			

**Method of Construction & Well
Use**

Method Construction ID:		962807205			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					

Pipe Information

Pipe ID:		10702036			
Casing No:		1			
Comment:					
Alt Name:					

Construction Record - Casing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930261009			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		76			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930261008			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		39			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		992807205			
Pump Set At:					
Static Level:		21			
Final Level After Pumping:		65			
Recommended Pump Depth:		71			
Pumping Rate:		8			
Flowing Rate:					
Recommended Pump Rate:		5			
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:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934972057			
Test Type:					
Test Duration:		60			
Test Level:		65			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934711076			
Test Type:					
Test Duration:		45			
Test Level:		65			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934451929			
Test Type:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Test Duration:</i>		30			
<i>Test Level:</i>		65			
<i>Test Level UOM:</i>		ft			
 <u>Draw Down & Recovery</u>					
<i>Pump Test Detail ID:</i>		934178348			
<i>Test Type:</i>					
<i>Test Duration:</i>		15			
<i>Test Level:</i>		65			
<i>Test Level UOM:</i>		ft			
 <u>Water Details</u>					
<i>Water ID:</i>		933610672			
<i>Layer:</i>		1			
<i>Kind Code:</i>		1			
<i>Kind:</i>		FRESH			
<i>Water Found Depth:</i>		68			
<i>Water Found Depth UOM:</i>		ft			

Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
ECA	Dundas Sixth-Line Developments Inc.	279 6th Line on Hays Boulevard and municipal easement	Oakville ON	M5E 1A7
NPRI	TOWN OF OAKVILLE	2400 SIXTH Line	OAKVILLE ON	L6H3N8

Unplottable Report

Site: *Dundas Sixth-Line Developments Inc.*
279 6th Line on Hays Boulevard and municipal easement Oakville ON M5E 1A7

Database:
ECA

Approval No: 0637-87JK7V
Approval Date: 2010-07-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: 279 6th Line on Hays Boulevard and municipal easement
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/6351-87EJKN-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *TOWN OF OAKVILLE*
2400 SIXTH Line OAKVILLE ON L6H3N8

Database:
NPRI

NPRI ID: 8800000061
Other ID:
No Other ID:
Track ID:
Report ID:
Report Type:
Rpt Type ID:
Report Year: 2004
Not-Current Rpt?:
Yr of Last Filed Rpt:
Fac ID:
Fac Name: RIVER OAKS RECREATION CENTRE
Fac Address1:
Fac Address2:
Fac Postal Zip:
Facility Lat:
Facility Long:
DLS (Last Filed Rpt):
Facility DLS:
Datum:
Facility Cmnts:
URL:
No of Empl.: 30
Parent Co.:
No Parent Co.:
Pollut Prev Cmnts:
Stacks:
No of Stacks:
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Org ID:
Submit Date:
Last Modified:
Contact ID:
Cont Type: MED
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:
Contact Fax:
Contact Ph.:
Cont Area Code:
Contact Tel.:
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email:
Latitude:
Longitude:
UTM Zone:
UTM Northing:
UTM Easting:
Waste Streams:
No Streams:
Waste Off Sites:
No Off Sites:
Shutdown:
No of Shutdown:

Substance Release Report

CAS No: 11104-93-1
Report ID:
Rpt Period: 2004
Subst Released: Nitrogen oxides (expressed as NO2)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial

[AMIS](#)

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

Government Publication Date: 1800-Oct 2018

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-Jun 30, 2020

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.

Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

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: Jul 31, 2020

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-Jun 30, 2020

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 - Sep 2020

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-Dec 2019

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-Sep 30, 2020

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 2019

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: Jul 31, 2020

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-Oct 31, 2020

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-Sep 30, 2020

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-Oct 31, 2020

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, 2020

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: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

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: Jul 31, 2020

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-Sep 2020

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: Jul 31, 2020

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-Jul 31, 2020

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 2018

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

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

Government Publication Date: Jul 31, 2020

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: Feb 28, 2019

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-Jan 2020

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, 2018

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-Mar 31, 2020

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, 2020

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-Jun 2020

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-Sep 30, 2020

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-Oct 31, 2020

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Oct 31, 2020

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-Sep 30, 2020

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: 1986-2016

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-Sep 2020

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Jun 30, 2020

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-Nov 2019

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, 2017

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-Aug 2019

Variations 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: Jul 31, 2020

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-Oct 31, 2020

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 30th, 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: Apr 30, 2020

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.

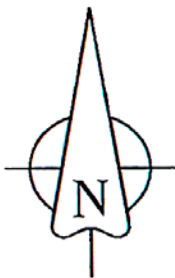
Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number 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.

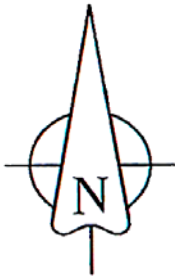
APPENDIX B

Mapping and Aerial Photographs

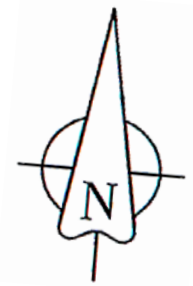



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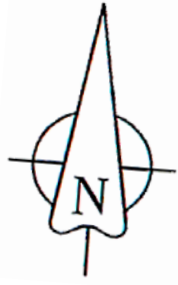
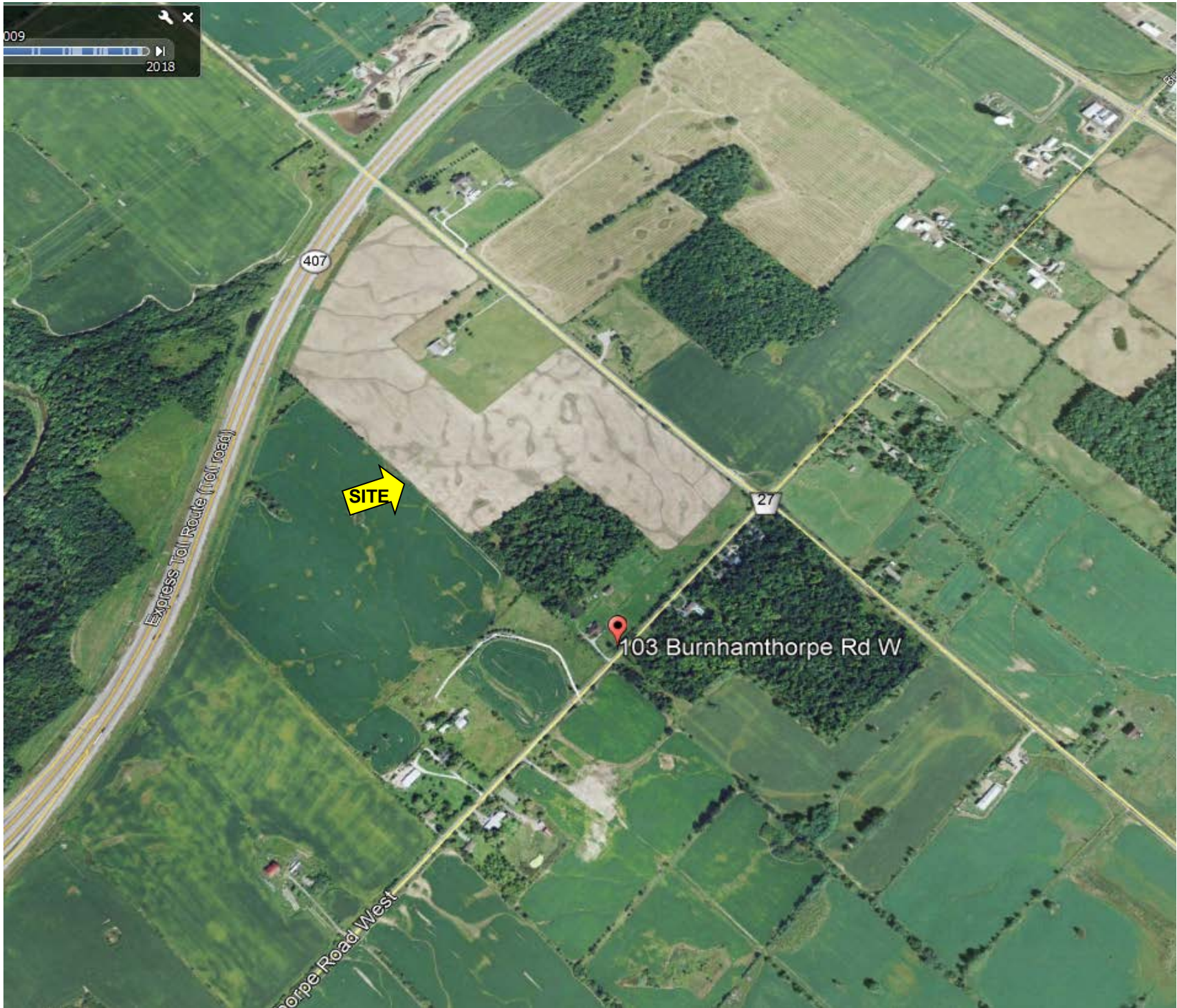
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Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Aerial Photograph - 1934		
Project No.	20383		



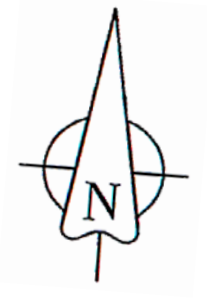
Scale:	NTS	Date:	December 2020
Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Aerial Photograph - 1965		
Project No.	20383		




 LANDTEK LIMITED			
Scale:	NTS	Date:	December 2020
Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Aerial Photograph - 2004		
Project No.	20383		



Scale:	NTS	Date:	Deverner 2020
Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Aerial Photograph - 2009		
Project No.	20383		



 LANDTEK LIMITED			
Scale:	NTS	Date:	December 2020
Project:	Phase 1 ESA 301 Burnhamthorpe Road West Oakville, Ontario		
Title:	Aerial Photograph - 2019		
Project No.	20383		

APPENDIX C

Photographs of Typical Site Conditions



Photograph 1

Photograph depicts the Site building, facing north.



Photograph 2

Photograph depicts the Site building, facing northwest.



LANDTEK LIMITED

Project No. 20383

Date: December 2020

Phase 1 ESA
103 Burnhamthorpe Road West
Oakville, Ontario

Title:

Typical Site Condition Photographs

Photograph 3

Photograph depicts the ANSI and associated pond / wetland located on the southern portion of the Phase One Property, facing northwest.



Photograph 4

Photograph depicts the eastern portion of the Site, facing south.



ANDTEK LIMITED

Project No. 20383

Date: December 2020

Phase 1 ESA
 103 Burnhamthorpe Road West
 Oakville, Ontario

Title:

Typical Site Condition Photographs

Photograph 5

Photograph depicts the shed/garage on-Site, facing east.



Photograph 6

Photograph depicts propane AST on-Site, facing north. A propane AST is considered a PCA which is not anticipated to represent an APEC on-Site.



LANDTEK LIMITED

Project No. 20383

Date: December 2020

Phase 1 ESA
103 Burnhamthorpe Road West
Oakville, Ontario

Title:

Typical Site Condition Photographs

Photograph 7

Photograph depicts the northern portion of the Site (agricultural usage), facing northwest.



Photograph 8

Photograph depicts the northern portion of the Site (agricultural usage), facing west.



LANDTEK LIMITED

Project No. 20383

Date: December 2020

Phase 1 ESA
103 Burnhamthorpe Road West
Oakville, Ontario

Title:

Typical Site Condition Photographs

Photograph 9

Photograph depicts the northern portion of the Site (agricultural usage), facing south.



Photograph 10

Photograph depicts William Halton Parkway, constructed to the north of the Site, facing east.



LINDEK LIMITED

Project No. 20383

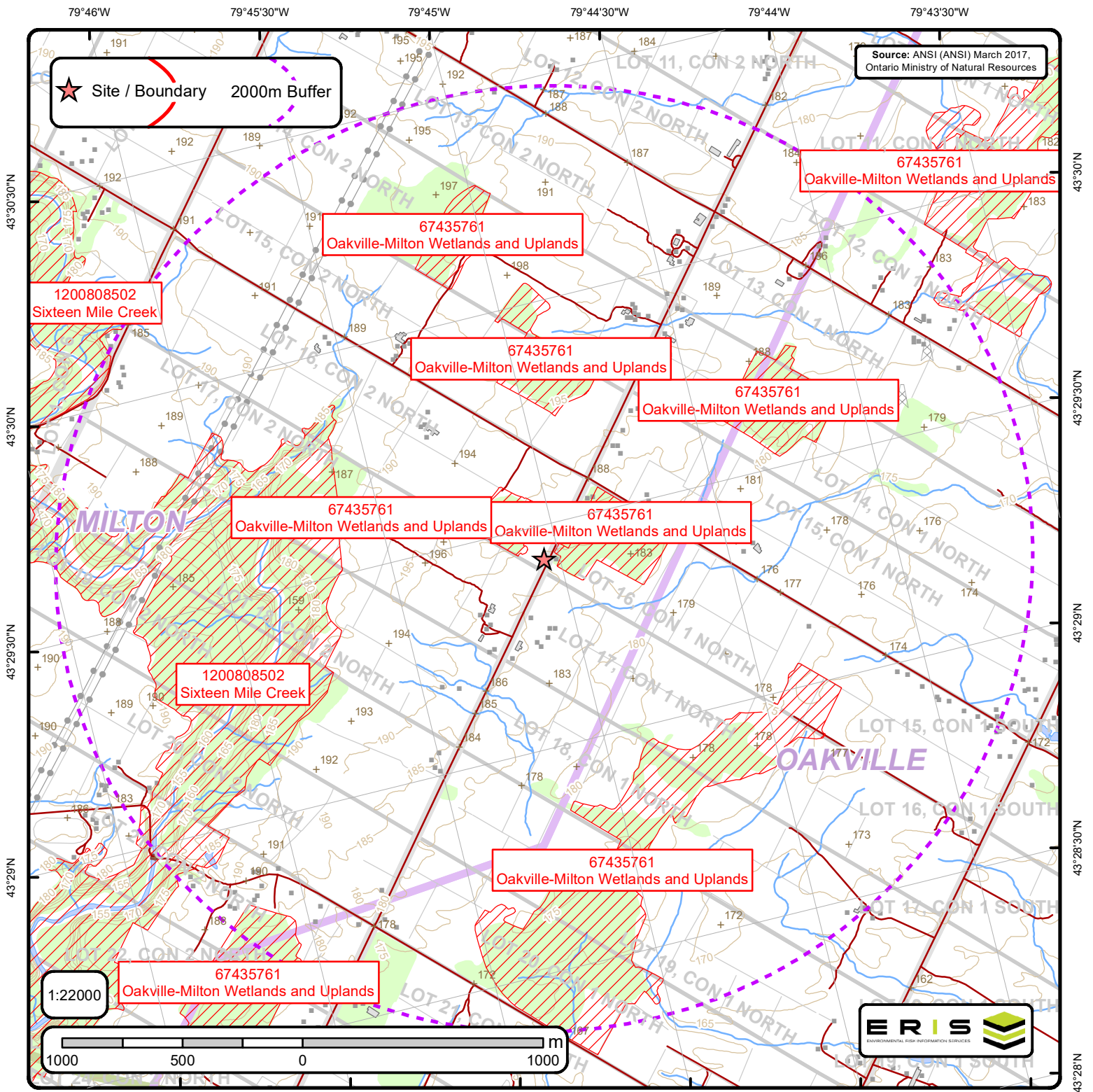
Date: December 2020

Phase 1 ESA
103 Burnhamthorpe Road West
Oakville, Ontario

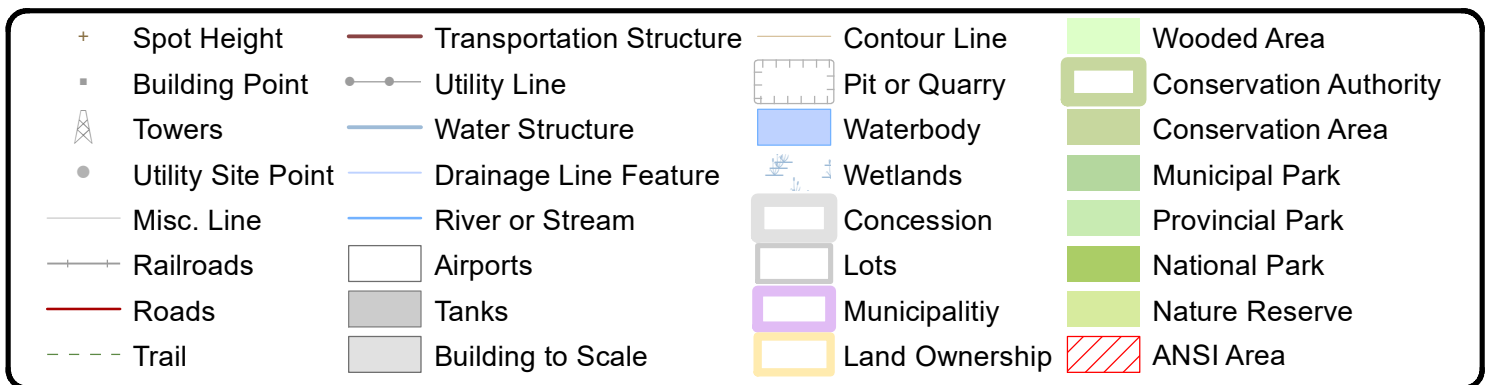
Title:

Typical Site Condition Photographs

APPENDIX D
Areas of Natural Significance Maps



Area of Natural & Scientific Interest (ANSI) Order No. 20313000048





ANSI Name: Oakville-Milton Wetlands and Uplands

ID: 67435761 | **Type:** Candidate ANSI, Life Science | **Significance:** Provincial | **Management Plan:** | **Area (sqm):** 2783292.519 |

Comments:

ANSI Name: Sixteen Mile Creek

ID: 1200808502 | **Type:** Candidate ANSI, Life Science | **Significance:** Provincial | **Management Plan:** Yes | **Area (sqm):** 9654538.536 |

Comments: Current Status-Approved Regional