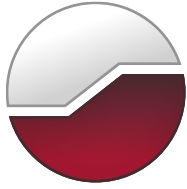




GEMTEC

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**Phase One Environmental Site Assessment
West Capital Airpark - Phase 2B
Ottawa, Ontario**



GEMTEC

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Submitted to:

Sheldon Creek Developments
75 First St., Suite 14
Orangeville, Ontario
L9W 2E7

**Phase One Environmental Site Assessment
West Capital Airpark - Phase 2B
Ottawa, Ontario**

August 12, 2022
Project: 101491.002

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Ottawa, ON, Canada
K2K 2A9

August 12, 2022

File: 101491.002

Sheldon Creek Developments
75 First St Suite 14
Orangeville, Ontario
L9W 2E7

Attention: Mr. Josh Blokhuis, Project Manager

**Re: Phase One Environmental Site Assessment
Proposed Residential Subdivision
West Capital Airpark - Phase 2B
Ottawa, Ontario**

Enclosed is GEMTEC's Phase One Environmental Site Assessment report as per the proposal dated July 11, 2022. The Phase One ESA was completed in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended, and describes the interpreted environmental conditions at the Site based on available information and observations at the time the Phase One ESA was completed.

We trust this information is sufficient for your current needs. If you have any questions or require further information, please contact the undersigned.

Sincerely,



Ester Wilson, B.Sc., GIT
Junior Environmental Scientist



Brenda Thom, M.Sc.(Eng.), P.Eng, QP_{ESA}
Senior Environmental Engineer

EW/BT

Enclosures

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EXECUTIVE SUMMARY

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Sheldon Creek Developments to complete a Phase One Environmental Site Assessment (ESA) for the proposed residential development on the West Capital Airpark Phase 2B Property in Ottawa, Ontario (the 'Site'). The location of the Site is shown on Figure A.1, Appendix A.

GEMTEC understands that the Phase One ESA is required to determine the potential for soil and groundwater contamination within the Phase One study area of 250 metres around the Site. Given the Site will not be changing to a more sensitive land use (i.e., commercial to residential land use), the filing of a Record of Site Condition (RSC), as regulated by Ontario Regulation (O.Reg.) 153/04 under the Environmental Protection Act, is not mandatory. The Phase One ESA was conducted in general accordance with O.Reg. 153/04, as amended, to support a site plan control application (SPA) with the City of Ottawa.

Based on the results of this Phase One ESA, no areas of potential environmental concern were identified on the Site. As such, a Phase Two ESA is not recommended at this time.

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1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Sheldon Creek Developments. to complete a Phase One Environmental Site Assessment (ESA) for the proposed subdivision development at West Capital Airpark (closer to Albert Boyd Private and Chandelle Private) – Phase 2B in Ottawa, Ontario (hereafter referred to as the ‘Site’). The location of the Site is shown on Figure A.1, Appendix A.

It is GEMTEC’s understanding that the client plans to develop the Site into a residential subdivision. The proposed subdivision will include multiple residential lots, as well as asphalt surfaced access roads. GEMTEC understands that the Phase One ESA is required to support a site plan control application (SPA) for the Site. Given the Site will not be changing to a more sensitive land use, the filing of a Record of Site Condition (RSC), as regulated by Ontario Regulation (O.Reg.) 153/04 under the Environmental Protection Act, is not mandatory. The Phase One ESA was conducted in general accordance with O.Reg. 153/04.

1.1 Phase One Property Information

The Site currently consists of approximately 20 acres of vacant undeveloped land. The Site is an irregular ‘T-shape’ consisting of multiple undeveloped residential lots. The Site boundary is shown on Figure A.1 and A.2, Appendix A. The following parcel registers were provided by the client and the respective property identification numbers (PINs) and legal descriptions are summarized below:

- This parcel register provides details of the former land parcel, as part of Plan 4M1593, before severance:
 - PIN: 04538-0691 (LT). PART OF LOTS 13 AND 14, CONCESSION 4, HUNTLEY, BEING THE LANDS LAID OUT BY PLAN 4M-1593; CITY OF OTTAWA
- These parcel registers provide details of three undeveloped residential lots within the Phase 2B lands:
 - PIN: 04538-0813 (LT). LOT 122, PLAN 4M1593; subject to an easement in gross over part 32 4R30566 AS IN OC1983198; subject to an easement over PART 32 4R30566 AS IN OC1983279; subject to an easement over PART 32 4R30566 as in OC1983318; together with an easement over OCCP1043 as in OC2117895; City of Ottawa
 - PIN: 04538-0830 (LT). LOT 139, PLAN 4M1593; subject to an easement in gross over part 78 4R30566 AS IN OC1983198; subject to an easement over part 78 4R30566 as in OC1983279; subject to an easement over part 78 4R30566 AS IN

OC1983318; together with an easement over OCCP1043 as in OC2117895; City of Ottawa

- PIN: 04538-0841 (LT). LOT 150, PLAN 4M1593; subject to an easement in gross over part 66 4R30566 AS IN OC1983198; subject to an easement over part 66 4R30566 as in OC1983279; subject to an easement over part 66 4R30566 AS IN OC1983318; together with an easement over OCCP1043 AS IN OC2117895; City of Ottawa

A copy of the parcel registers for the Site can be found in Appendix C.

The Site is currently owned by 1514947 Ontario Inc., and the contact person(s) for the Site are outlined below:

- Mr. Josh Blokhuis - josh@sheldoncreek.com
- Ms. Ashley Maksimovic - amaksimovic@blg.com

Authorization to Proceed with the Phase One ESA was granted via email by Mr. Josh Blokhuis of Sheldon Creek Developments on July 11, 2022.

2.0 SCOPE OF INVESTIGATION

2.1 General Objectives

The general objectives of the Phase One ESA were to:

- Develop a preliminary determination of the likelihood of contamination in soil or groundwater at the Site; and
- Determine the need for a Phase Two ESA.

The general objectives were met through the evaluation of information gathered from records review, interviews, and a Site reconnaissance. Specific objectives for these components and the tasks completed to achieve these objectives are described below.

The qualifications of the persons who completed the Phase One ESA are presented in Appendix B.

2.2 Records Review

The records review was conducted to identify current and past land uses at the Site and within the Phase One study area (i.e., 250 m from the Site boundary) that may have impacted the soil and groundwater quality at the Site. The following available records were reviewed as part of this investigation:

- Bedrock and Overburden Geology Maps – Overburden and bedrock geology maps provided by Ontario Basic Mapping, the Ministry of Natural Resources and Forestry, and Environmental Systems Research Institute were reviewed in order to identify the underlying soil deposits and bedrock types;
- City Directories – A city directory search was conducted for the Site and adjacent properties using available records in order to review the past and/or present land uses at the Site;
- ERIS Databases – The Environmental Risk Information Services (ERIS) searches 73 public and private information databases to identify potential environmental concerns and summarizes the records related to the Site and Phase One study area. An ERIS report was obtained for the Site and the Phase One study area;
- Review of available information from regulatory agencies (i.e. Technical Standards and Safety Authority (TSSA), and Local Municipal Works or Engineering Department). These sources can provide information regarding the presence of fuel storage tanks, approvals and permits;
- Aerial Photographs – Aerial photographs taken at regular intervals were reviewed for the Site and Phase One study area. The photographs were reviewed in order to identify potential environmental concerns resulting from historical land uses on the Site and within the Phase One study area;
- *“Mapping of Federally Owned Contaminated Sites”* prepared by Treasury Board of Canada Secretariat; and
- *“Ontario Inventory of PCB Storage Sites”*, dated January 1992 and prepared by Ontario Ministry of the Environment (Waste Management Branch).

2.3 Interview

The objective of the interview was to assist in the identification of potentially contaminating activities (PCAs) that may have led to areas of potential environmental concern (APECs) at the Site.

GEMTEC interviewed Mr. Josh Blokhuis, employee of Sheldon Creek Developments. The interview was conducted over the phone on August 2, 2022. Mr. Blokhuis was asked about activities that could have contributed to contamination of soil and groundwater at the Site, and within the Phase One study area.

2.4 Site Reconnaissance

A site reconnaissance was conducted to document current on-site conditions and determine if visually apparent PCAs are present at the Site, which would result in APECs. Furthermore,

surrounding land uses within the Phase One study area were assessed to document the presence of PCAs resulting in APECs on the Site.

3.0 RECORDS REVIEW

3.1 General

3.1.1 Previous Environmental Reports

No previous environmental reports were provided to GEMTEC for review as part of this Phase One ESA.

3.1.2 Phase One Study Area Determination

The Site has an area of approximately 8.1 hectares (20.0 acres) and is located to the east of Chandelle Private and to the southwest of the Carp Airport in Ottawa, Ontario.

The Site is presently considered vacant and undeveloped; however, is zoned as an air transportation facility zone (T1B). Future land use of the Site is considered residential.

Based on this information, a study area of 250 m surrounding the Site is deemed sufficient for the purpose of this Phase One ESA. The location of the Site and the extent of the Phase One study area are provided on Figure A.2, Appendix A.

3.1.3 Surficial and Bedrock Geology

Surficial and bedrock geology maps of the Ottawa area were reviewed with Google Earth Pro™ imagery. Based on the review, overburden in the vicinity of the Site generally consists of coarse textured glaciomarine deposits with sand, gravel, minor silt, and clay with a thickness of approximately 15 to 25 metres (ESRI, 2016). Bedrock is mapped as primarily limestone, dolostone, shale, arkose, and sandstone from the Ottawa and Simcoe Groups of the Shadow Lake Formation (ESRI, 2016).

3.1.4 Topography and Hydrogeology

Topographic mapping available through the Ministry of Natural Resources and Forestry was reviewed to determine topographic features in the vicinity of the Site and Phase One study area.

The elevation of the Site is between approximately 114 and 118 meters above sea level with a regional topography sloping to the north towards the Carp River located approximately 3 kilometers north of the northern extent of the Site (MNR, 2019).

Regional groundwater flow direction is often influenced by topographic features, and generally flows toward nearby lakes, rivers and wetland areas. Based on the topography and hydrogeological features, it is anticipated that regional shallow groundwater flow would be to the northwest.

3.1.5 Water Bodies and Areas of Natural Significance

A small unnamed creek was identified within the Phase One study area on an Ontario Ministry of Natural Resources and Forestry (MNR) map. The creek located is directly west of the Site, approximately 150 m, and flows to the north.

Through a review of the Heritage Map website (list website here if not in references) of the MNR one endangered species, blanding's turtle, was identified in a 1 km grid that covers a portion of the Site. No Areas of Natural and Scientific Interest were identified on the Site or within the study area.

3.1.6 First Developed Use Determination

According to a review of available historical aerial photographs, the Site was used for agricultural purposes prior to 1946, followed by vacant undeveloped forested and grassland until at least 2020

3.1.7 City Directories

A search of the City Directories was completed by ERIS for the Site and properties within the Phase One study area by searching a 250 m radius from an address located at the centre of the Site (i.e., 312 Tailslide Private, Ottawa, Ontario). The records were reviewed and no PCAs were identified.

A copy of the City Directory results is provided in Appendix C.

3.1.8 Chain of Title

Parcel registers for the Site were provided by the client and respective property identification numbers (PINs) and legal descriptions are summarized below:

A summary of information obtained from the chain of title search with respect to the Site is provided in Table 3.1.

Table 3.1: Summary of Aerial Photograph Review

Year(s)	Ownership Listing
Pre-2005	Crown
2005-2001	West Capital Developments
2011- Present	West Capital Developments

A copy of the chain of titles for the Site can be found in Appendix C.

The Site was purchased from the City of Ottawa by West Capital Developments in 2005. In 2013, West Capital Developments had a change in ownership but continued to own the Site and presently owns the Site. Based on the above noted information, the Site has never been developed and no evidence of PCAs or potential APECs can be inferred based on the ownership information reviewed.

3.2 Environmental Source Information

3.2.1 ERIS Database Report

GEMTEC contacted ERIS to conduct a search of 73 public and private information databases for the Site and the Phase One study area. The complete ERIS report, including a list of the databases searched, is provided in Appendix E.

There was a total of two records pertaining to the Site: one borehole (BORE) record and one water well information system (WWIS) record.

There were two records identified within the Phase One study area (unplottables), both were WWIS records.

No PCAs were identified in the review of the database records compiled in the ERIS report.

3.3 Regulatory Information

3.3.1 Technical Safety and Standards Authority

The TSSA was contacted on July 25, 2022, to conduct a search of properties within the Phase One study. Addresses searched included 1450 and 1451 Diamond view Road, 70 Wingover Private, 44 Sopwith Private, 1500 Thomas Argue Road, and 306 and 322 Tailslide Road, in Ottawa, Ontario.

The TSSA response identified records of expired fuel storage tanks located at 1500 Thomas Argue Road. However, given the distance from the Site, it is unlikely to result in soil and groundwater impacts. A copy of the search request and the response from the TSSA is provided in Appendix F.

3.3.2 Historical Land Use Inventory

A request was made to the City of Ottawa for a search of the Historical Land Use Inventory (HLUI) database on July 28, 2022. The search provides information with respect to properties located within the Phase One study area which are considered to have a potential for environmental impacts. A response to the HLUI request has not yet been received from the City of Ottawa. If the City of Ottawa's response identifies records with respect to the Site which indicate areas of potential environmental concern, the client will be notified, and an update will be provided.

3.3.3 Mapping of Federally owned Contaminated Sites

A Government of Canada Treasury Board of Canada Secretariat, interactive map illustrating a database of over 4,000 federally owned contaminated sites was reviewed. The database did not identify any federally owned contaminated sites within the study area (TBCS, 2021).

3.3.4 Landfills

A Government of Ontario map and website for large landfill sites and small landfill sites was reviewed. The database did not identify any historical or current landfills in the Phase One study area (Large landfill sites map, 2021; Small landfill sites list, 2021).

3.4 Physical Setting Sources

3.4.1 Aerial Photographs

Aerial photographs available from the National Air Photo Library in Ottawa, Ontario (NAPL) were reviewed for 1946 and 1967, and copies are provided in Appendix G. For years where no NAPL photographs were available, photographs from geoOttawa were reviewed for 1976, 1999, 2002, 2008, 2011, 2014, 2017 and 2021. Aerial photographs were reviewed to establish the period progress from initial development at the Site to the present. The aerial photographs were also reviewed to identify any PCAs at the Site and within the Phase One study area which could result in APECs. A summary of the aerial photograph information is provided in Table 3.2.

Table 3.2: Summary of Aerial Photograph Review

Date	Source	Observations
1946	NAPL	<ul style="list-style-type: none"> The Site appears to consist of vacant agricultural land in the 1946 aerial photograph. The Carp airport is present to the northeast of the Site. The surrounding land-use appears to consist of agricultural to the north, east and west and vacant undeveloped forested/grassed land to the south.
1967	NAPL	<ul style="list-style-type: none"> The northern portion of the Site appears to consist of agricultural land in the 1967 aerial photograph. An unnamed creek becomes visible directly adjacent to the western boundary of the Site and curves around the south portion of Site towards the east. No other changes from the 1946 aerial photograph.
1976	geoOttawa	<ul style="list-style-type: none"> Some small residential lots developed south of the Site on Diamondview Road No other changes from the 1967 aerial photograph.
1999	geoOttawa	<ul style="list-style-type: none"> The Site becomes more densely forested in the 1999 aerial photograph and the forested area expands further towards the north of the Site. No other changes from the 1976 aerial photograph.
2002	geoOttawa	<ul style="list-style-type: none"> A sand and gravel quarry appears in the 2002 aerial photograph east of the Site. No other changes from the 1999 aerial photograph
2008	geoOttawa	<ul style="list-style-type: none"> The Site remains vacant undeveloped forested land. The quarry to the east of the Site becomes larger in area in the 2008 aerial photograph. No other changes from the 2002 aerial photograph.
2011	geoOttawa	<ul style="list-style-type: none"> The sand and gravel quarry to the east of the Site becomes larger again in area in the 2011 aerial photograph. No other significant changes from the 2008 aerial photograph.

Date	Source	Observations
2014	geoOttawa	<ul style="list-style-type: none"> Three strips of clear-cut forested area become visible in the 2014 aerial photograph as the beginning of the development of Chandelle Private and Tailslide Road. No other significant changes from the 2011 aerial photograph.
2021	geoOttawa	<ul style="list-style-type: none"> A subdivision becomes visible in the 2021 aerial photograph west of the Site on Albert Boyd Private. No other significant changes from the 2021 aerial photograph.

No PCAs were identified during the aerial photograph review of the Site, or within Phase One Study Area.

3.4.2 Fill Materials

Engineered subgrade material was identified on the northern portion of the Site and is recognized as a potential source of contamination, PCA #30: Importation of Fill Material of Unknown Quality, in accordance with O.Reg. 153/04. However, the material is of known origin - from the local Thomas Cavanagh March Road Quarry.

3.4.3 Well Records

Water well records were reviewed from the Ontario Ministry of the Environment, Conservation and Parks (MECP) for the Site and study area. A total of 4 water wells were identified within the study area. Three of the wells were reported for use as domestic water supply, and one as a test well abandoned due to insufficient supply. A summary of the approximate location of the water wells can be found in Figure A.3.

4.0 INTERVIEW

An interview was conducted the phone with Mr. Josh Blokhuis of Sheldon Creek Developments on August 2, 2022. Mr. Blokhuis is a Project Manager at Sheldon Creek Developments and has been familiar with the Site for approximately 3 years. The following relevant information concerning the Site as a result of the interview was noted below:

- Mr. Blokhuis indicated that the Site is currently zoned as T1B – Air Transportation Facility Zone but has existed as vacant undeveloped forested land until the January of 2022 when it was clear cut in preparation for development.
- Mr. Blokhuis indicated that there are no current or historical structures on Site;
- Mr. Blokhuis noted that there are no domestic wells on the Site; water is supplied through a watermain by the City of Ottawa, which is directed to the Carp Airport water treatment facility; and
- Mr. Blokhuis indicated that to the best of his knowledge, there are no current or historical concerns that would result in PCAs or APECs at the Site.

Based on information provided in the interview and Site reconnaissance, one PCAs was identified.

- Item 30. Importation of Fill material of Unknown Quality: A pile of granular engineered subgrade material was observed on the north portion of the Site. The material is of known origin, and a remanent from construction on the Phase 1B property. As a result of the aforementioned information, the identified PCA is not considered and APEC at the Site.

5.0 SITE RECONNAISSANCE

5.1 General Site Conditions

A GEMTEC representative, Ester Wilson, visited the Site and conducted the site reconnaissance on July 28, 2022, between the hours of 1:45 PM and 2:30 PM. The study area was assessed in a systematic manner by walking the Site property boundaries and recording visual and olfactory observations. The weather at the time of the site reconnaissance was overcast and the air temperature was approximately 25°C.

5.2 Site Photographs

Photographs of the Site were taken during the site reconnaissance to document the general condition of the Site. Selected relevant photographs are presented in Appendix H. A discussion of the photographs is provided in Table 5.1.

Table 5.1: Summary of Site Photographs

Photograph Number	Compass Orientation	Description
Photograph 1	East	View from the centre of the Site looking east
Photograph 2	North	View from the centre of the Site looking north
Photograph 3	West	View from the centre of the Site looking west
Photograph 4	South	View from the centre of the Site looking south
Photograph 5	South	Creek flowing through a culvert west of the Site under Albert Boyd Road
Photograph 6	-	One of multiple utility access points for future services across the Site.
Photograph 7	-	Pile of granular material for engineered subgrade from the Thomas Cavanagh March Road quarry in the Winter of 2022.

Photograph 8	-	One of several groundwater shutoff valves observed across the Site.
Photograph 9	North	Four Oil Grit Separators (OGS) units observed on the northernmost portion of the Site.
Photograph 10	North	Stormwater discharge pond directly north of the Site, viewed from the north Site boundary.
Photograph 11	North	Chandelle Road running north/south directly to the West of the Site boundary.

5.3 Adjacent Lands

Adjacent properties were viewed from the Site and publicly accessible boundaries to assess the potential for current land uses in the vicinity to adversely impact the Site. The following adjacent properties were observed:

North: Agricultural land followed by the Carp Airport;

South: Vacant, undeveloped forested land;

East: Vacant, undeveloped forested land; and

West: Residential lots on Albert Boyd Road subdivision.

5.3.1 Storage Tanks

No storage tanks were identified on-site at the time of the site reconnaissance.

5.4 Unidentified Substances

No unidentified substances were identified at the time of the site reconnaissance.

5.5 Odours

No significant odours were identified in and around the Site at the time of site reconnaissance.

Water, Wastewater and Storm Water

Several well waterline shut off valves were observed across the Site. A storm water management pond was observed approximately 50 metres north of the Site. Multiple storm manholes and sanitary manholes were observed directly to the west of the Site, along Chandelle Private.

5.6 Pits, Ponds and Lagoons

A shallow pond was observed during the site reconnaissance on the northernmost section of the Site in a local topographic low (Photograph 8, Appendix H).

5.7 Stained Materials and Stressed Vegetation

No stained materials or stressed vegetation was observed at the time of the Site reconnaissance.

5.8 Watercourses, Ditches or Standing Water

Standing water was observed in a storm water management pond directly north of the Site.

5.9 Potentially Contaminating Activities

One PCA was identified during the site reconnaissance visit:

- Item 30: Importation of Fill Material of Unknown Quality
- Fill material was observed on the northern portion of the Site. The material is of known origin, and a remanent from construction on the Phase 1B property. As a result of the aforementioned information, the identified PCA is not considered and APEC at the Site.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses

The Site is currently vacant and undeveloped and appears to have always existed as such. The land has been recently deforested and is currently covered by clear cut vegetation and grass. There are no buildings or structures currently present on Site. The Site is owned by Sheldon Creek Developments.

6.2 Potentially Contaminating Activities

The Phase One ESA identified 1 PCA on the Site and within the study area, which is summarized in Table 6.1 and identified on Figure A.2 within Appendix A.

Table 6.1: Summary of PCAs Identified within the Study Area

Address of PCA	PCA Identifier	Distance From Site	Description	Data Source	PCA Resulted in APEC Rational
On Site	30	On Site	Fill material of unknown quality was observed on the Site in the form of a temporary gravel stockpile on the northern portion of the Site.	Site Reconnaissance	No Based on the fill material being granular material for engineered subgrade and having a known origin.

Notes:

30. Importation of Fill Material of Unknown Quality

6.3 Areas of Potential Environmental Concern

No APECs were identified resulting from the on-site PCA identified at the time of this Phase One ESA.

6.4 Phase One Conceptual Site Model

Based on the historical review, interview, and Site reconnaissance, GEMTEC concludes that there were no APECs identified at the Site. Information presented in this report that contributes to the development of the conceptual site model (CSM) is presented as applicable in Figures A.1 and A.3 in Appendix A, and is summarized as follows:

- The Site currently consists of undeveloped vacant forested land.
- A total of 4 water wells were identified within the study area, one of which was on the Site. Ground cover on the Site consists of grass succession on a deforested clear-cut.
- The City of Ottawa services water to the Site from Carp via a watermain. Wastewater is directed to the Carp airport water treatment plant.
- No areas of natural significance were identified within the Phase One study area. Surficial and bedrock geology maps of the Ottawa area were reviewed. Based on the review, overburden in the vicinity of the Site generally consists of coarse textured glaciomarine deposits with sand, gravel, minor silt and clay with a thickness of approximately 15 to 25 metres (ESRI, 2016). Bedrock is mapped as primarily limestone, dolostone, shale, arkose, and sandstone from the Ottawa and Simcoe Groups of the Shadow Lake Formation (ESRI, 2016);
- The Carp River is located approximately 3.0 km north of the Site at an elevation of 91 meter above sea level. Groundwater flow often reflects topographic features and typically flows toward nearby lakes, rivers and wetland areas. One small, unnamed pond is present within the Phase One study area. From review of historical aerial photographs, the pond appears to be man made.
- Based on the topography and hydrogeological features, it is anticipated that local shallow groundwater flow direction is to the northwest;
- Based on the review of records, as well as the site reconnaissance completed as part of this Phase One ESA, GEMTEC identified one PCA at the Site; however, was not considered an APEC at the Site.

Information considered for the development of this Phase One CSM was gathered from numerous sources (i.e. aerial photographs, city directories, environmental database searches, physical setting sources, an interview, and site reconnaissance)

There were no deviations from the Phase One ESA requirements specified in O. Reg. 153/04 nor absence of information that have resulted in uncertainty that would affect the validity of the Phase One CSM.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the records review, interview and Site reconnaissance, no APECs were identified at the Site at the time of this Phase One ESA. As such, a Phase Two ESA is not recommended for the Site.

8.0 LIMITATIONS OF LIABILITY

This Phase One ESA was carried out in general accordance with O.Reg. 153/04, as amended. The results of this Phase One ESA should in no way be construed as a warranty that the Site is free from any and all contaminants other than those noted in this report, nor that all compliance issues have been addressed.

This report was prepared for the exclusive use of Sheldon Creek Developments and is based on data and information collected during the Phase One ESA of the property conducted by GEMTEC Consulting Engineers and Scientists Limited at the time of the investigation. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC Consulting Engineers and Scientists Limited, and Sheldon Creek Developments. In evaluating this site, GEMTEC Consulting Engineers and Scientists Limited has relied in good faith on information provided by others. We accept no responsibility for any deficiencies or inaccuracies in this report as a result of omissions, misinterpretations, or fraudulent acts of others.

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

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

9.0 REFERENCES

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Wetland. November 5, 2021. Ontario Ministry of Natural Resources and Forestry: GeoHub. Accessed July 2022.

10.0 CLOSURE

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

Sincerely,

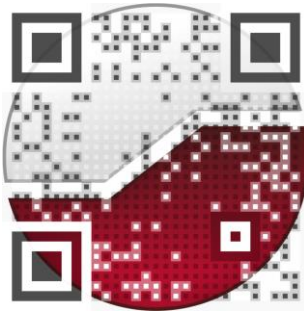


Ester Wilson, BSc., G.I.T
Junior Environmental Scientist



Brenda Thom, M.Sc.(Eng.), P.Eng. QP_{ESA}
Senior Environmental Engineer

experience • knowledge • integrity



civil
geotechnical
environmental
field services
materials testing

civil
géotechnique
environnementale
surveillance de chantier
service de laboratoire des matériaux

expérience • connaissance • intégrité

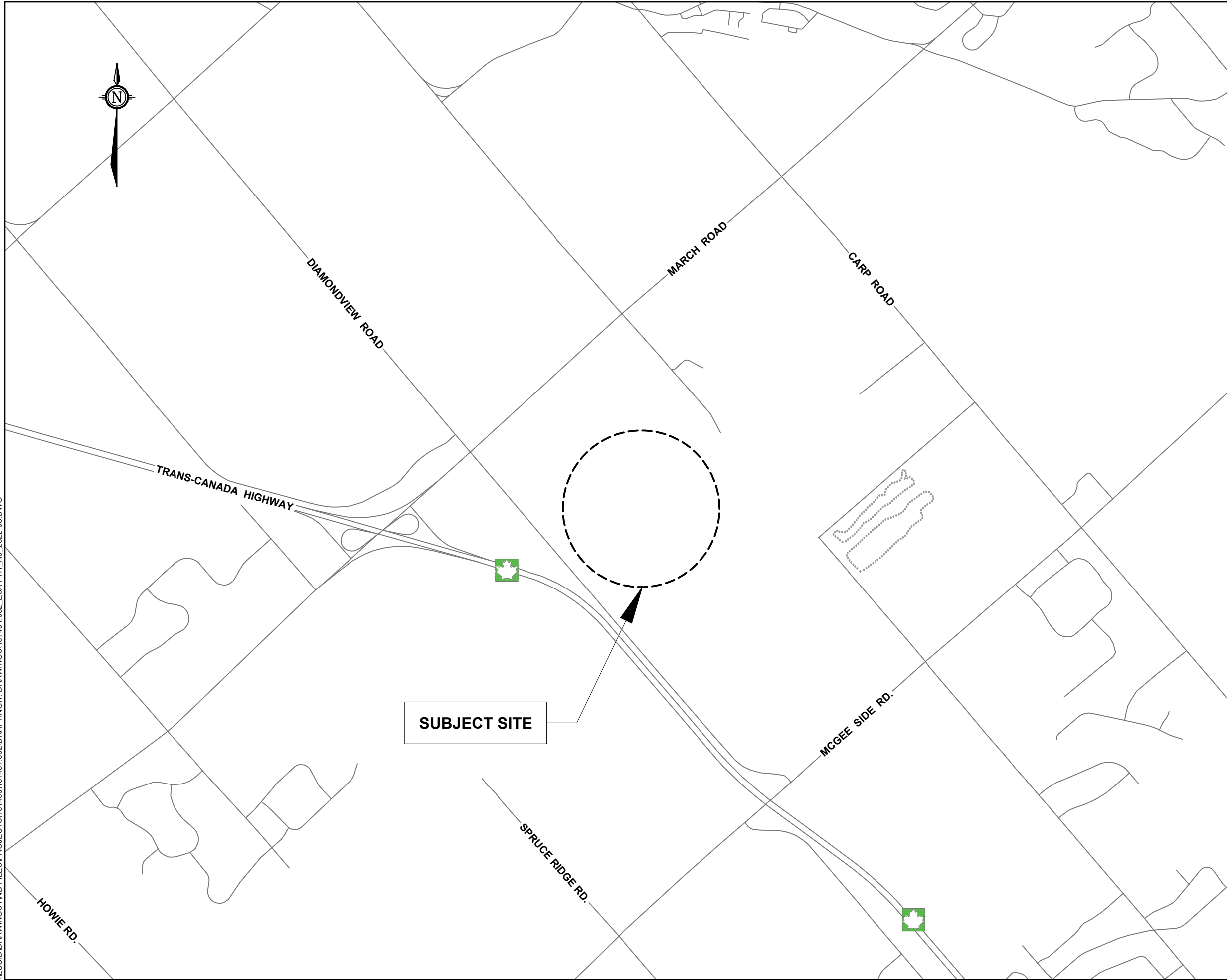




APPENDIX A

Figures

\\LICID\DRAWINGS AND FILES\PROJECTS\101400101491.002\DRAWING\1. DRAWINGS\101491.002_ESA-PH1_RO_2022-08.DWG



LEGEND
 - - - - - SUBJECT SITE

SCALE 1:25000

 0 500 1000 1500m

DRAWING KEY PLAN

CLIENT SHELDON CREEK DEVELOPMENTS

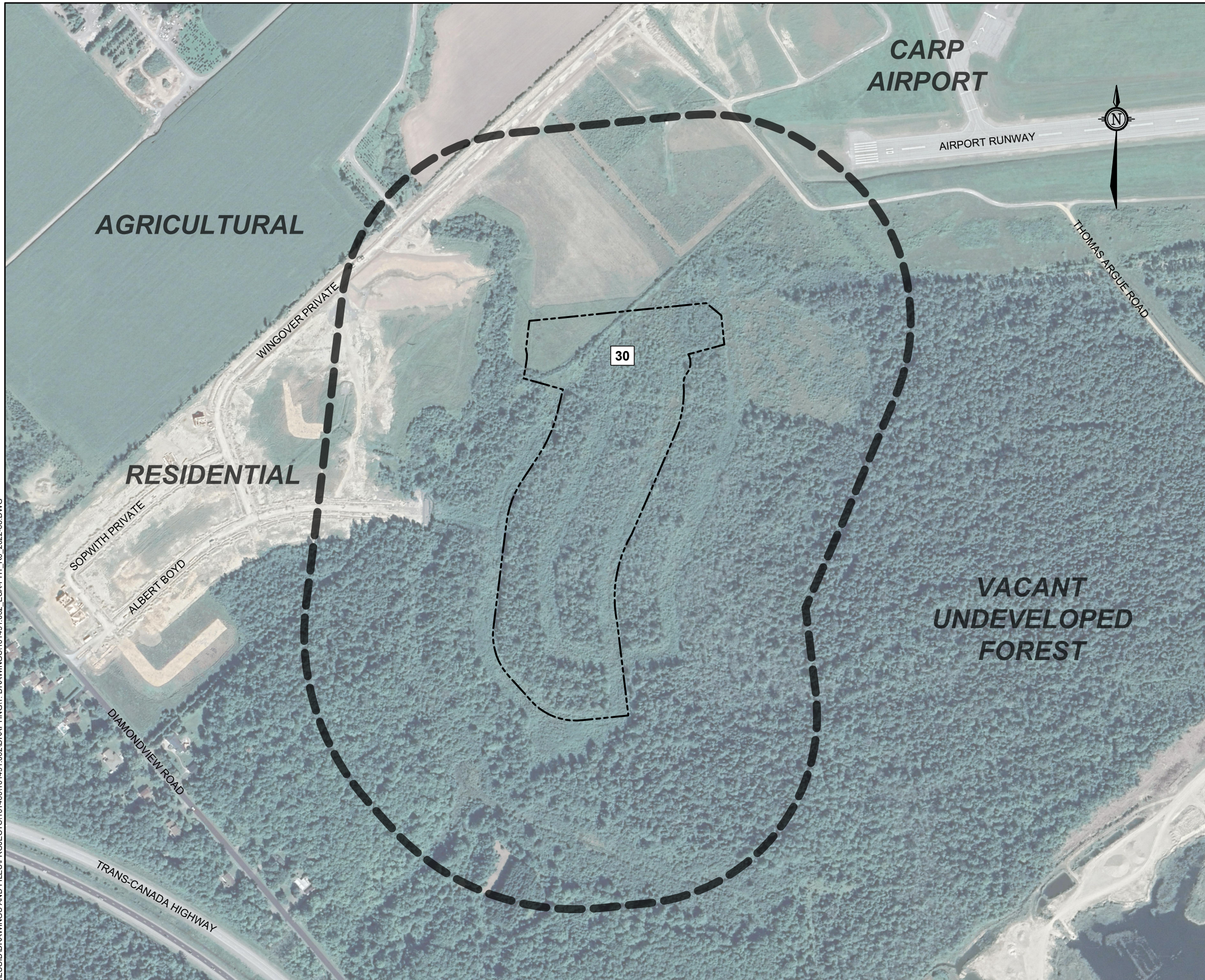
PROJECT PHASE ONE
 ENVIRONMENTAL SITE ASSESSMENT
 WEST CAPITAL AIRPARK - PHASE 2B
 OTTAWA, ONTARIO

DRAWN BY S.L.	CHECKED BY M.K.
PROJECT NO. 101491.002	REVISION NO. 0
DATE AUGUST, 2022	FIGURE NO. FIGURE A.1

GEMTEC
 CONSULTING ENGINEERS
 AND SCIENTISTS

32 Steacie Drive
 Ottawa, ON K2K 2A9
 Tel: (613) 836-1422
 www.gemtec.ca
 ottawa@gemtec.ca

\\LUCIDDRAWINGS AND FILES\PROJECTS\101400101491.002\DRAWING\1. DRAWINGS\101491.002_ESA-PH1_R0_2022-08.DWG



LEGEND

----- APPROXIMATE STUDY AREA BOUNDARY

----- 250m BUFFER FROM STUDY AREA BOUNDARY

POTENTIALLY CONTAMINATING ACTIVITIES

30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY



SCALE 1:5000

DRAWING PHASE ONE STUDY AREA AND POTENTIALLY CONTAMINATING ACTIVITIES

CLIENT SHELDON CREEK DEVELOPMENTS

PROJECT PHASE ONE ENVIRONMENTAL SITE ASSESSMENT WEST CAPITAL AIRPARK - PHASE 2B OTTAWA, ONTARIO

DRAWN BY S.L.	CHECKED BY M.K.
---------------	-----------------

PROJECT NO. 101491.002	REVISION NO. 0
------------------------	----------------

DATE AUGUST, 2022	FIGURE NO. FIGURE A.2
-------------------	------------------------------

 **GEMTEC**
CONSULTING ENGINEERS AND SCIENTISTS

32 Steacie Drive
Ottawa, ON K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca



APPENDIX B

Qualifications of Assessors

QUALIFICATION OF ASSESSORS

Ester Wilson, B.Sc., G.I.T – Junior Environmental Scientist

The primary assessor for this Phase One Environmental Site Assessment (ESA) was Ms. Ester Wilson, B.Sc. in Environmental Geoscience, and registered geoscientist in training (G.I.T). Ms. Wilson's formal education and experience working in environmental consulting has provided her with the knowledge and expertise to identify sources of environmental concern and evaluate their potential to cause adverse environmental impacts.

Brenda Thom, M.Sc. (Eng.), P. Eng. – Environmental Engineer

The Phase One ESA was carried out under the supervision of Ms. Brenda Thom, M.Sc. (Eng.), P.Eng., a registered Professional Engineer in the Province of Ontario, and a Qualified Person ESA (QP_{ESA}) under Ontario Regulation 153/04 and 406/19. Ms. Thom has over 12 years of experience in the completion of Environmental Site Assessments to meet Phase I and II ESAs completed in accordance with the CSA Group Standards and Phase One and Two ESAs completed in accordance with O.Reg. 153/04.



APPENDIX C

City Directory

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *312 Tailside Private, Carp, Ontario*
Report Type: *City Directory*
Order No: *22071800192*
Information Source: *Vernon's Ottawa and Area, Ontario City Directory (LAC)*
Date Completed: *02/08/2022*

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

City Directory Information Source	
Vernon's Ottawa and Area, Ontario City Directory	

PROJECT NUMBER: 22071800192	
Site Address:	312 Tailslide Private, Carp, Ontario
Year: 2011	
Site Listing:	-Street Not Listed
Adjacent Properties:	
Tailslide Private (All)	-Street Not Listed

PROJECT NUMBER: 22071800192	
Site Address:	312 Tailslide Private, Carp, Ontario
Year: 2006/07	
Site Listing:	-Street Not Listed
Adjacent Properties:	
Tailslide Private (All)	-Street Not Listed

PROJECT NUMBER: 22071800192	
Site Address:	312 Tailslide Private, Carp, Ontario
Year: 2001/02	
Site Listing:	-Street Not Listed
Adjacent Properties:	
Tailslide Private (All)	-Street Not Listed

PROJECT NUMBER: 22071800192	
Site Address:	312 Tailslide Private, Carp, Ontario
Year: 1996/97	
Site Listing:	-Street Not Listed
Adjacent Properties:	
Tailslide Private (All)	-Street Not Listed

PROJECT NUMBER: 22071800192	
Site Address:	312 Tailslide Private, Carp, Ontario

Year: 1992	
Site Listing:	-Street Not Listed
Adjacent Properties:	
Tailslide Private (All)	-Street Not Listed

*****Carp, Ontario is listed within the city directory archives from 1992-2011.*****

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

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



APPENDIX D

Chain of Title Abstract

LAND
REGISTRY
OFFICE #4

04538-0691 (LT)

PAGE 1 OF 3
PREPARED FOR amaksimovic
ON 2022/07/24 AT 11:36:12

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

PROPERTY DESCRIPTION: PART OF LOTS 13 AND 14, CONCESSION 4, HUNTLEY, BEING THE LANDS LAID OUT BY PLAN 4M-1593; CITY OF OTTAWA

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2014/01/06.

ESTATE/QUALIFIER: FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY: CONSOLIDATION FROM 04538-0611, 04538-0681, 04538-0686, 04538-0689

PIN CREATION DATE:
2017/09/29

OWNERS' NAMES 1514947 ONTARIO INC.

CAPACITY SHARE ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2017/09/29 **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
NOTE: THE NO DEALINGS INDICATOR IS IN EFFECT ON THIS PROPERTY						
NOTE: THIS PROPERTY WAS RETIRED ON 2017/09/29. THIS PROPERTY IS NOW DIVIDED INTO THE FOLLOWING PROPERTIES: 04538-0692 TO 04538-0898						
N753412	1997/03/14	NOTICE	\$10	HER MAJESTY THE QUEEN IN RIGHT OF CANADA	THE REGIONAL MUNICIPALITY OF OTTAWA-CARLETON	C
OC359260	2004/07/22	NOTICE OF LEASE		BRADLEY AIR SERVICES LIMITED	CITY OF OTTAWA	C
OC447657	2005/03/31	NO ASSG LESSEE INT	\$2	BRADLEY AIR SERVICES LIMITED	HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE SOLICITOR GENERAL OF CANADA	C
OC702429	2007/03/30	NOTICE OF LEASE		CITY OF OTTAWA	CARP FLYING ACADEMY INC.	C
OC702455	2007/03/30	NO ASSG LESSEE INT		CARP FLYING ACADEMY INC.	HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF PUBLIC SAFETY	C
REMARKS: OC702429						
OC1218195	2011/03/24	NO OPTION PURCHASE	\$1	1514947 ONTARIO INC. WCD RESERVE CORPORATION	CITY OF OTTAWA	C
OC1218198	2011/03/24	NOTICE	\$1	1514947 ONTARIO INC. WCD RESERVE CORPORATION	CITY OF OTTAWA	C
OC1218199	2011/03/24	RESTRICTION-LAND		1514947 ONTARIO INC.		C
REMARKS: NO EXPIRY						
OC1218200	2011/03/24	APL ANNEX REST COV		1514947 ONTARIO INC.		C
REMARKS: NO EXPIRY						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
OC1218201	2011/03/24	APL ANNEX REST COV <i>REMARKS: NO EXPIRY</i>		WCD RESERVE CORPORATION		C
OC1339586	2012/03/07	BYLAW <i>REMARKS: BY-LAW 2012-23 TO DESIGNATE THE CORE AIRPORT AREA LANDS DESCRIBED HEREIN AND THE MUNICIPAL AIRPORT FACILITY LOCATED THEREON AS A MUNICIPAL CAPITAL FACILITY FOR THE PROVISION OF AN AIRPORT TRANSPORTATION NETWORK SYSTEM.</i>		CITY OF OTTAWA		C
OC1513798	2013/08/30	CHARGE	\$6,000,000	1514947 ONTARIO INC.	CAMERON STEPHENS FINANCIAL CORPORATION	C
4R27606	2014/01/06	PLAN REFERENCE				C
OC1573821	2014/04/23	NOTICE	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC1573822	2014/04/23	NOTICE	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
4M1593	2017/09/18	PLAN SUBDIVISION				C
OC1930872	2017/09/18	PLAN DOCUMENT		1514947 ONTARIO INC. WCD RESERVE CORPORATION		C
OC1930873	2017/09/18	NO SUB AGREEMENT		CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
OC1930874	2017/09/18	NOTICE	\$1	CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
OC1930875	2017/09/18	POSTPONEMENT <i>REMARKS: OC1513798 TO OC1930873</i>		CAMERON STEPHENS FINANCIAL CORPORATION	CITY OF OTTAWA	C
OC1930876	2017/09/18	POSTPONEMENT <i>REMARKS: OC1513798 TO OC1930874</i>		CAMERON STEPHENS FINANCIAL CORPORATION	CITY OF OTTAWA	C
OC1930877	2017/09/18	APL INH ORDER-LAND <i>REMARKS: SEE DOCUMENT FOR COMPLIANCE REQUIREMENTS</i>		CITY OF OTTAWA		C
4R30566	2017/09/19	PLAN REFERENCE				C
4R30567	2017/09/19	PLAN REFERENCE				C
OC1933085	2017/09/25	CHARGE	\$11,760,000	1514947 ONTARIO INC.	CAMERON STEPHENS FINANCIAL CORPORATION	C
OC1933512	2017/09/26	POSTPONEMENT		CAMERON STEPHENS FINANCIAL CORPORATION	CAMERON STEPHENS FINANCIAL CORPORATION	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #4

04538-0691 (LT)

PAGE 3 OF 3
PREPARED FOR amaksimovic
ON 2022/07/24 AT 11:36:12

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
REMARKS: OC1513798 TO OC1933085						

LAND
REGISTRY
OFFICE #4

04538-0813 (LT)

PAGE 1 OF 2
PREPARED FOR amaksimovic
ON 2022/07/24 AT 11:50:10

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

PROPERTY DESCRIPTION: LOT 122, PLAN 4M1593; SUBJECT TO AN EASEMENT IN GROSS OVER PART 32 4R30566 AS IN OC1983198; SUBJECT TO AN EASEMENT OVER PART 32 4R30566 AS IN OC1983279; SUBJECT TO AN EASEMENT OVER PART 32 4R30566 AS IN OC1983318; TOGETHER WITH AN EASEMENT OVER OCCP1043 AS IN OC2117895; CITY OF OTTAWA

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2014/01/06.

ESTATE/QUALIFIER: FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY: SUBDIVISION FROM 04538-0691

PIN CREATION DATE:
2017/09/29

OWNERS' NAMES 1514947 ONTARIO INC.

CAPACITY SHARE ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
OC1218198	2011/03/24	NOTICE	\$1	1514947 ONTARIO INC. WCD RESERVE CORPORATION	CITY OF OTTAWA	C
OC1573822	2014/04/23	NOTICE	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
4M1593	2017/09/18	PLAN SUBDIVISION				C
OC1930873	2017/09/18	NO SUB AGREEMENT		CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
OC1930874	2017/09/18	NOTICE	\$1	CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
4R30566	2017/09/19	PLAN REFERENCE				C
OC1983198	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC1983279	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	BELL CANADA	C
OC1983318	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	ROGERS COMMUNICATIONS INC.	C
REMARKS: PLANNING ACT STATEMENTS.						
OC2121607	2019/07/19	NOTICE		1514947 ONTARIO INC.	OTTAWA-CARLETON COMMON ELEMENTS CONDOMINIUM CORPORATION NO. 1043	C
OC2380639	2021/07/30	NOTICE		1514947 ONTARIO INC.	CITY OF OTTAWA	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

04538-0813 (LT)

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2380640	2021/07/30	NOTICE REMARKS: OC1930873	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC2388970	2021/08/19	CHARGE	\$30,000,000	1514947 ONTARIO INC.	BANK OF MONTREAL	C
OC2388971	2021/08/19	NO ASSGN RENT GEN REMARKS: OC2388970		1514947 ONTARIO INC.	BANK OF MONTREAL	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
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LAND
REGISTRY
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04538-0830 (LT)

PAGE 1 OF 2
PREPARED FOR amaksimovic
ON 2022/07/24 AT 11:46:27

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

PROPERTY DESCRIPTION: LOT 139, PLAN 4M1593; SUBJECT TO AN EASEMENT IN GROSS OVER PART 78 4R30566 AS IN OC1983198; SUBJECT TO AN EASEMENT OVER PART 78 4R30566 AS IN OC1983279; SUBJECT TO AN EASEMENT OVER PART 78 4R30566 AS IN OC1983318; TOGETHER WITH AN EASEMENT OVER OCCP1043 AS IN OC2117895; CITY OF OTTAWA

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2014/01/06.

ESTATE/QUALIFIER: FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY: SUBDIVISION FROM 04538-0691

PIN CREATION DATE:
2017/09/29

OWNERS' NAMES 1514947 ONTARIO INC.

CAPACITY SHARE ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
OC1218198	2011/03/24	NOTICE	\$1	1514947 ONTARIO INC. WCD RESERVE CORPORATION	CITY OF OTTAWA	C
OC1573822	2014/04/23	NOTICE	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
4M1593	2017/09/18	PLAN SUBDIVISION				C
OC1930873	2017/09/18	NO SUB AGREEMENT		CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
OC1930874	2017/09/18	NOTICE	\$1	CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
4R30566	2017/09/19	PLAN REFERENCE				C
OC1983198	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC1983279	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	BELL CANADA	C
OC1983318	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	ROGERS COMMUNICATIONS INC.	C
REMARKS: PLANNING ACT STATEMENTS.						
OC2121607	2019/07/19	NOTICE		1514947 ONTARIO INC.	OTTAWA-CARLETON COMMON ELEMENTS CONDOMINIUM CORPORATION NO. 1043	C
OC2380639	2021/07/30	NOTICE		1514947 ONTARIO INC.	CITY OF OTTAWA	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

04538-0830 (LT)

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2380640	2021/07/30	NOTICE REMARKS: OC1930873	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC2388970	2021/08/19	CHARGE	\$30,000,000	1514947 ONTARIO INC.	BANK OF MONTREAL	C
OC2388971	2021/08/19	NO ASSGN RENT GEN REMARKS: OC2388970		1514947 ONTARIO INC.	BANK OF MONTREAL	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
 NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #4

04538-0841 (LT)

PAGE 1 OF 2
PREPARED FOR amaksimovic
ON 2022/07/24 AT 11:48:39

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

PROPERTY DESCRIPTION: LOT 150, PLAN 4M1593; SUBJECT TO AN EASEMENT IN GROSS OVER PART 66 4R30566 AS IN OC1983198; SUBJECT TO AN EASEMENT OVER PART 66 4R30566 AS IN OC1983279; SUBJECT TO AN EASEMENT OVER PART 66 4R30566 AS IN OC1983318; TOGETHER WITH AN EASEMENT OVER OCCP1043 AS IN OC2117895; CITY OF OTTAWA

PROPERTY REMARKS: FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2014/01/06.

ESTATE/QUALIFIER: FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY: SUBDIVISION FROM 04538-0691

PIN CREATION DATE:
2017/09/29

OWNERS' NAMES 1514947 ONTARIO INC.

CAPACITY SHARE ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
** PROVINCIAL SUCCESSION DUTIES AND EXCEPT PARAGRAPH 11 AND ESCHEATS OR FORFEITURE **						
** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
OC1218198	2011/03/24	NOTICE	\$1	1514947 ONTARIO INC. WCD RESERVE CORPORATION	CITY OF OTTAWA	C
OC1573822	2014/04/23	NOTICE	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
4M1593	2017/09/18	PLAN SUBDIVISION				C
OC1930873	2017/09/18	NO SUB AGREEMENT		CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
OC1930874	2017/09/18	NOTICE	\$1	CITY OF OTTAWA	1514947 ONTARIO INC. WCD RESERVE CORPORATION	C
4R30566	2017/09/19	PLAN REFERENCE				C
OC1983198	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC1983279	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	BELL CANADA	C
OC1983318	2018/04/04	TRANSFER EASEMENT	\$1	1514947 ONTARIO INC.	ROGERS COMMUNICATIONS INC.	C
REMARKS: PLANNING ACT STATEMENTS.						
OC2121607	2019/07/19	NOTICE		1514947 ONTARIO INC.	OTTAWA-CARLETON COMMON ELEMENTS CONDOMINIUM CORPORATION NO. 1043	C
OC2380639	2021/07/30	NOTICE		1514947 ONTARIO INC.	CITY OF OTTAWA	C

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LAND
 REGISTRY
 OFFICE #4

04538-0841 (LT)

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC2380640	2021/07/30	NOTICE REMARKS: OC1930873	\$1	1514947 ONTARIO INC.	CITY OF OTTAWA	C
OC2388970	2021/08/19	CHARGE	\$30,000,000	1514947 ONTARIO INC.	BANK OF MONTREAL	C
OC2388971	2021/08/19	NO ASSGN RENT GEN REMARKS: OC2388970		1514947 ONTARIO INC.	BANK OF MONTREAL	C

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APPENDIX E

ERIS Report



DATABASE REPORT

Project Property: *Phase One Environmental Site Assessment
- Albert Boyd Private and Chandelle Private
Albert Boyd
Ottawa ON K0A 1L0*

Project No:

Report Type: *Quote - Custom-Build Your Own Report*

Order No: *22071100144*

Requested by: *GEMTEC Consulting Engineers and
Scientists Limited (Ontario)*

Date Completed: *July 18, 2022*

Environmental Risk Information Services

A division of Glacier Media Inc.

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Executive Summary

Property Information:

Project Property:

*Phase One Environmental Site Assessment - Albert Boyd Private and Chandelle Private
Albert Boyd Ottawa ON K0A 1L0*

Project No:

Order Information:

Order No:

22071100144

Date Requested:

July 11, 2022

Requested by:

GEMTEC Consulting Engineers and Scientists Limited (Ontario)

Report Type:

Quote - Custom-Build Your Own Report

Historical/Products:

ERIS Xplorer

[ERIS Xplorer](#)

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
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	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	1	2	3
Total:			2	2	4

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>
1	WWIS		lot 18 con 3 ON <i>Well ID:</i> 1503143	NNW/0.0	0.00	12
2	BORE		ON	NNW/0.0	0.00	15

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
3	WWIS		lot 14 con 4 ON Well ID: 1531260	NW/42.2	0.00	16
4	WWIS		lot 18 con 2 ON Well ID: 1518459	NNW/234.9	0.00	19

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	0.0	<u>2</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Jan 31, 2022 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 18 con 3 ON <i>Well ID:</i> 1503143	0.0	<u>1</u>
	lot 14 con 4 ON <i>Well ID:</i> 1531260	42.2	<u>3</u>
	lot 18 con 2 ON <i>Well ID:</i> 1518459	234.9	<u>4</u>

76°2'30"W

76°2'W

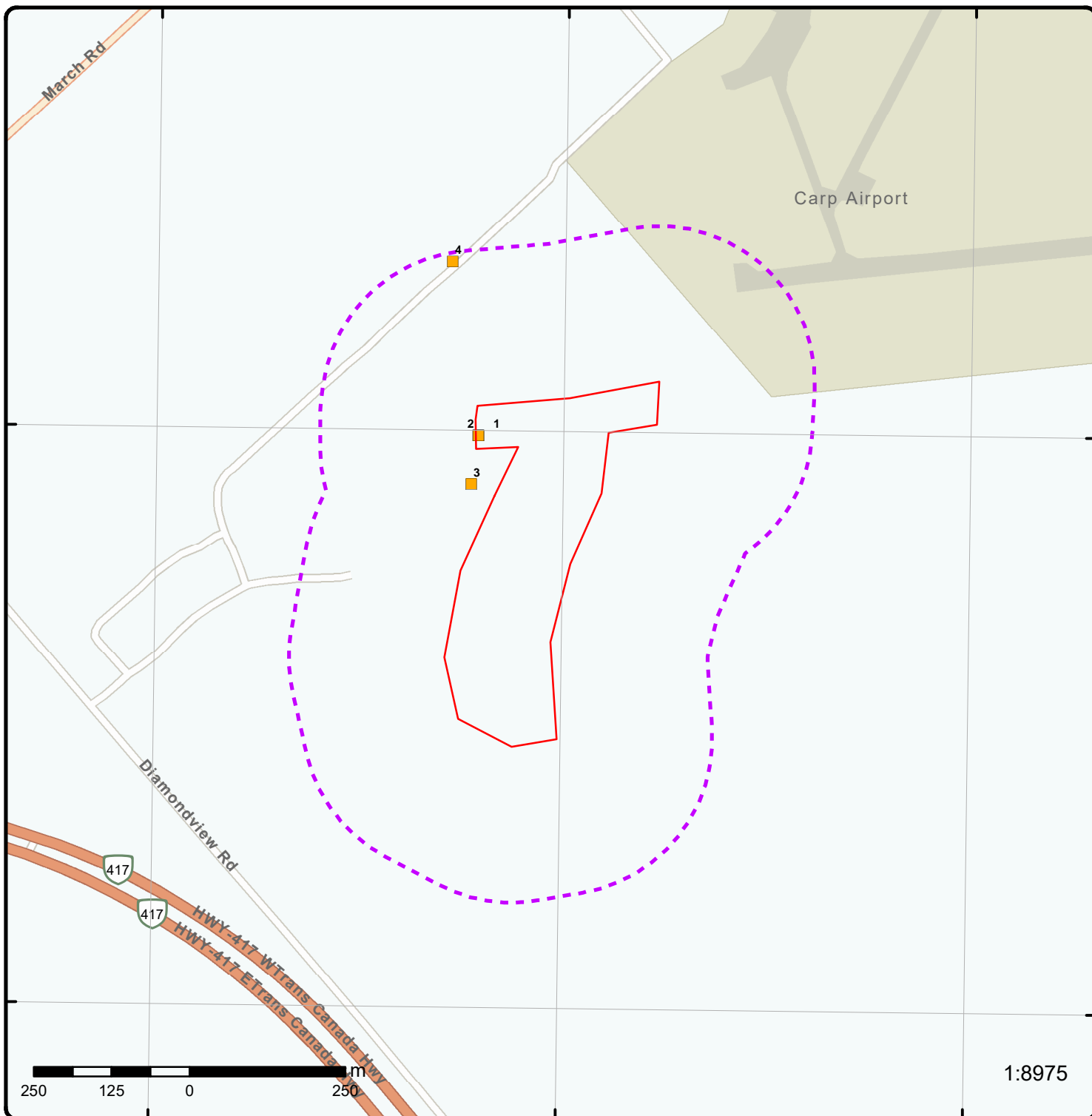
76°1'30"W

45°19'N

45°19'N

45°18'30"N

45°18'30"N



1:8975

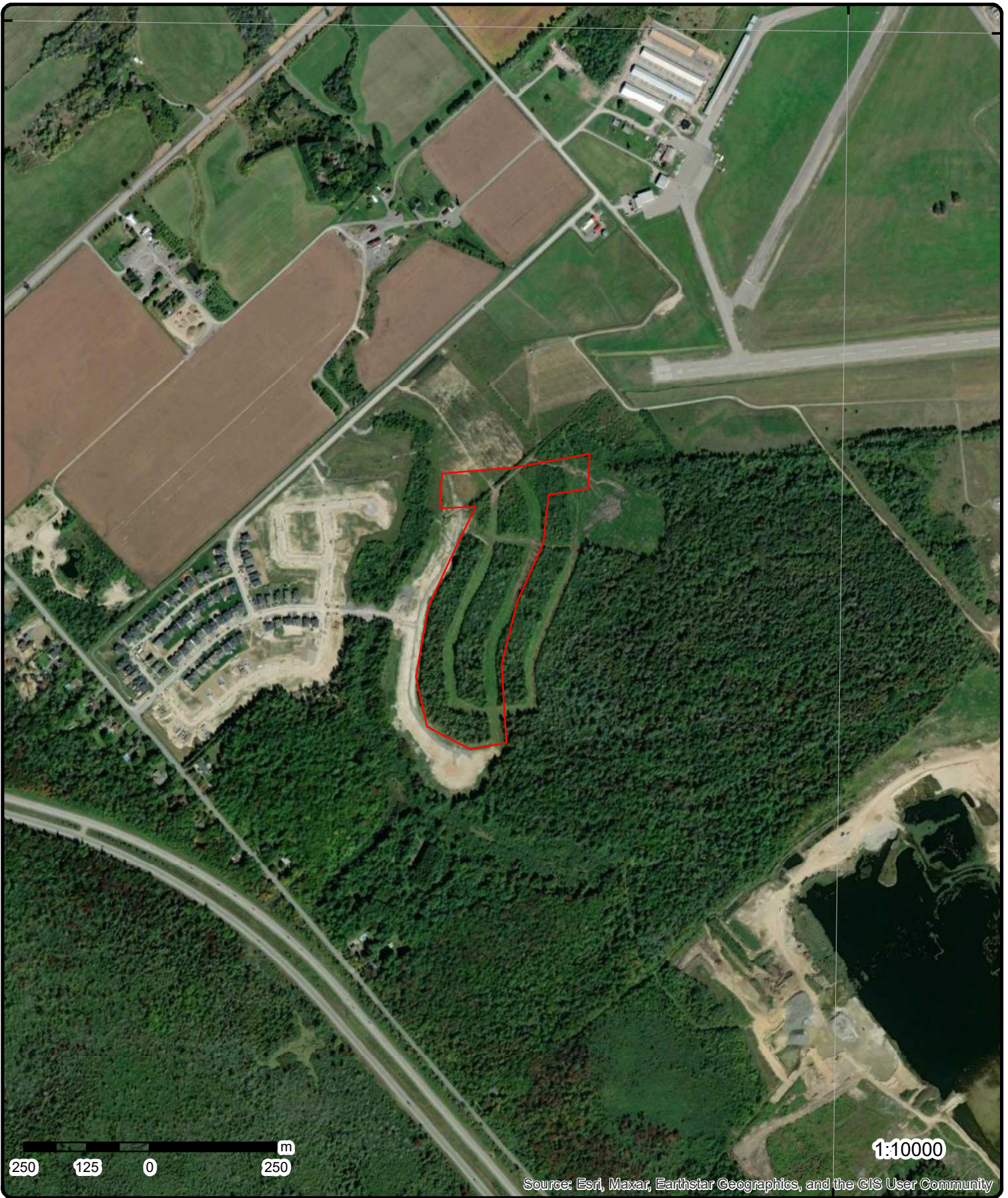
Map: 0.25 Kilometer Radius

Order Number: 22071100144

Address: Albert Boyd, Ottawa, ON



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



Aerial Year: 2021

Order Number: 22071100144

Address: Albert Boyd, Ottawa, ON



Source: ESRI World Imagery

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76°3'W

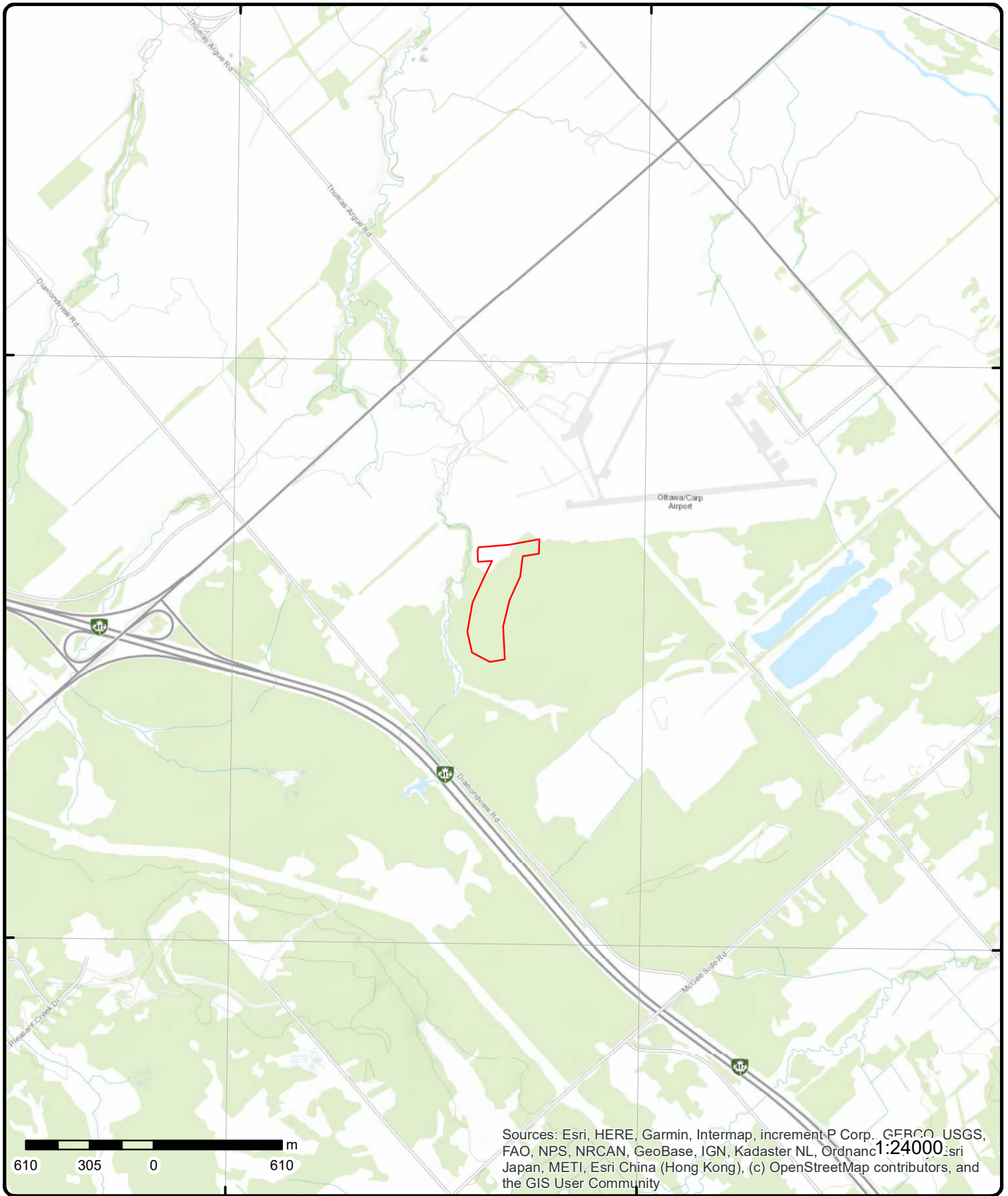
76°1'30"W

45°19'30"N

45°19'30"N

45°18'N

45°18'N



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

Order Number: 22071100144

Address: Albert Boyd, ON



Source: ESRI World Topographic Map

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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	NNW/0.0	110.9/ 0.00	lot 18 con 3 ON	WWIS

<p>Well ID: 1503143</p> <p>Construction Date:</p> <p>Use 1st: Domestic</p> <p>Use 2nd: 0</p> <p>Final Well Status: Water Supply</p> <p>Water Type:</p> <p>Casing Material:</p> <p>Audit No:</p> <p>Tag:</p> <p>Constructn Method:</p> <p>Elevation (m):</p> <p>Elevatn Reliabilty:</p> <p>Depth to Bedrock:</p> <p>Well Depth:</p> <p>Overburden/Bedrock:</p> <p>Pump Rate:</p> <p>Static Water Level:</p> <p>Clear/Cloudy:</p> <p>Municipality: HUNTLEY TOWNSHIP</p> <p>Site Info:</p>	<p>Flowing (Y/N):</p> <p>Flow Rate:</p> <p>Data Entry Status:</p> <p>Data Src: 1</p> <p>Date Received: 07-Sep-1960 00:00:00</p> <p>Selected Flag: TRUE</p> <p>Abandonment Rec:</p> <p>Contractor: 1802</p> <p>Form Version: 1</p> <p>Owner:</p> <p>County: OTTAWA</p> <p>Lot: 018</p> <p>Concession: 03</p> <p>Concession Name: CON</p> <p>Easting NAD83:</p> <p>Northing NAD83:</p> <p>Zone:</p> <p>UTM Reliability:</p>
---	---

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1503143.pdf

Additional Detail(s) (Map)

Well Completed Date: 1960/07/15

Year Completed: 1960

Depth (m): 30.1752

Latitude: 45.3165937460969

Longitude: -76.0350790024545

Path: 150\1503143.pdf

Bore Hole Information

<p>Bore Hole ID: 10025186</p> <p>DP2BR:</p> <p>Spatial Status:</p> <p>Code OB:</p> <p>Code OB Desc:</p> <p>Open Hole:</p> <p>Cluster Kind:</p> <p>Date Completed: 15-Jul-1960 00:00:00</p> <p>Remarks:</p> <p>Elevrc Desc:</p> <p>Location Source Date:</p> <p>Improvement Location Source:</p> <p>Improvement Location Method:</p> <p>Source Revision Comment:</p> <p>Supplier Comment:</p>	<p>Elevation:</p> <p>Elevrc:</p> <p>Zone: 18</p> <p>East83: 418870.50</p> <p>North83: 5018642.00</p> <p>Org CS:</p> <p>UTMRC: 5</p> <p>UTMRC Desc: margin of error : 100 m - 300 m</p> <p>Location Method: p5</p>
---	--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930996114			
Layer:		3			
Color:					
General Color:					
Mat1:		21			
Most Common Material:		GRANITE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		94.0			
Formation End Depth:		99.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930996112			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		75.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930996113			
Layer:		2			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		09			
Mat2 Desc:		MEDIUM SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		75.0			
Formation End Depth:		94.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961503143			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573756			

<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>
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930043139				
Layer:	2				
Material:	4				
Open Hole or Material:	OPEN HOLE				
Depth From:					
Depth To:	99.0				
Casing Diameter:	6.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Casing</u>					
Casing ID:	930043138				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	94.0				
Casing Diameter:	6.0				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	991503143				
Pump Set At:					
Static Level:	15.0				
Final Level After Pumping:	90.0				
Recommended Pump Depth:	90.0				
Pumping Rate:	2.0				
Flowing Rate:					
Recommended Pump Rate:	2.0				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	1				
Pumping Duration HR:	2				
Pumping Duration MIN:	0				
Flowing:	No				
<u>Water Details</u>					
Water ID:	933456003				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	96.0				
Water Found Depth UOM:	ft				
<u>Links</u>					
Bore Hole ID:	10025186			Tag No:	1802
Depth M:	30.1752			Contractor:	150\1503143.pdf
Year Completed:	1960			Path:	45.3165937460969
Well Completed Dt:	1960/07/15			Latitude:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Audit No:				Longitude:	-76.0350790024545

2	1 of 1	NNW/0.0	110.9 / 0.00	ON	BORE
Borehole ID:	608718			Inclin FLG:	No
OGF ID:	215510424			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUL-1960			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.316595
Total Depth m:	30.2			Longitude DD:	-76.035079
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	418871
Drill Method:				Northing:	5018642
Orig Ground Elev m:	94.5			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	113				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218381494			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	22.9			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				
Geology Stratum ID:	218381495			Mat Consistency:	
Top Depth:	22.9			Material Moisture:	
Bottom Depth:	28.7			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:	Sand			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY,SAND.				
Geology Stratum ID:	218381496			Mat Consistency:	
Top Depth:	28.7			Material Moisture:	
Bottom Depth:	30.2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Granite			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	GRANITE. 00096UNSPECIFIED. SEISMIC VELOCITY = 4700. BEDROCK. SEISMIC VELOCITY = 12500. BRO				
	**Note: Many records provided by the department have a truncated [Stratum Description] field.				

Source

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA1.txt RecordID: 01226 NTS_Sheet:				
Confiden 1:					
Source List					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

3	1 of 1	NW/42.2	110.9 / 0.00	lot 14 con 4 ON	WWIS
Well ID:	1531260			Flowing (Y/N):	
Construction Date:				Flow Rate:	
Use 1st:	Domestic			Data Entry Status:	
Use 2nd:				Data Src:	1
Final Well Status:	Water Supply			Date Received:	17-Aug-2000 00:00:00
Water Type:				Selected Flag:	TRUE
Casing Material:				Abandonment Rec:	
Audit No:	221160			Contractor:	3323
Tag:				Form Version:	1
Constructn Method:				Owner:	
Elevation (m):				County:	OTTAWA
Elevatn Reliabilty:				Lot:	014
Depth to Bedrock:				Concession:	04
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Clear/Cloudy:				UTM Reliability:	
Municipality:	HUNTLEY TOWNSHIP				
Site Info:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1531260.pdf				

Additional Detail(s) (Map)

Well Completed Date:	2000/07/21
Year Completed:	2000
Depth (m):	36.576
Latitude:	45.3158904430873
Longitude:	-76.0352103650039
Path:	153\1531260.pdf

Bore Hole Information

Bore Hole ID:	10052794	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	418859.20
Code OB Desc:		North83:	5018564.00
Open Hole:		Org CS:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cluster Kind:				UTMRC:	9
Date Completed:	21-Jul-2000 00:00:00			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931077999			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		8.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931078001			
Layer:		3			
Color:		1			
General Color:		WHITE			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		100.0			
Formation End Depth:		120.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931078000			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:		15			
Mat2 Desc:		LIMESTONE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		8.0			
Formation End Depth:		100.0			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Sealing Record</u>					
Plug ID:		933116432			
Layer:		1			
Plug From:		0.0			
Plug To:		20.0			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961531260			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10601364			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930092317			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991531260			
Pump Set At:					
Static Level:		8.0			
Final Level After Pumping:		120.0			
Recommended Pump Depth:		80.0			
Pumping Rate:		10.0			
Flowing Rate:					
Recommended Pump Rate:		10.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:					
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934657011			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		12.0			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Draw Down & Recovery

Pump Test Detail ID: 934113433
Test Type: Recovery
Test Duration: 15
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396632
Test Type: Recovery
Test Duration: 30
Test Level: 18.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934913903
Test Type: Recovery
Test Duration: 60
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 933491647
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 110.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10052794	Tag No: 3323
Depth M: 36.576	Contractor: 153\1531260.pdf
Year Completed: 2000	Path: 153\1531260.pdf
Well Completed Dt: 2000/07/21	Latitude: 45.3158904430873
Audit No: 221160	Longitude: -76.0352103650039

<u>4</u>	1 of 1	NNW/234.9	110.9 / 0.00	lot 18 con 2 ON	WWIS
Well ID: 1518459	Flowing (Y/N):				
Construction Date:	Flow Rate:				
Use 1st: Domestic	Data Entry Status:				
Use 2nd: 0	Data Src: 1				
Final Well Status: Water Supply	Date Received: 24-Aug-1983 00:00:00				
Water Type:	Selected Flag: TRUE				
Casing Material:	Abandonment Rec:				
Audit No:	Contractor: 1558				
Tag:	Form Version: 1				
Constructn Method:	Owner:				
Elevation (m):	County: OTTAWA				
Elevatn Reliabilty:	Lot: 018				
Depth to Bedrock:	Concession: 02				
Well Depth:	Concession Name: CON				
Overburden/Bedrock:	Easting NAD83:				
Pump Rate:	Northing NAD83:				
Static Water Level:	Zone:				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Clear/Cloudy: Municipality: Site Info:		HUNTLEY TOWNSHIP		UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1518459.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path:		1983/06/16 1983 71.628 45.3190999911101 -76.0356477543903 151\1518459.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10040329			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	18 418829.50 5018921.00 4 margin of error : 30 m - 100 m p4
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	931038508 6 2 GREY 18 SANDSTONE 74 LAYERED 85 SOFT 110.0 180.0 ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	931038506 4 7 RED 21 GRANITE 78 MEDIUM-GRAINED 73				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:		HARD			
Formation Top Depth:		42.0			
Formation End Depth:		60.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931038504			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Mat2 Desc:		CLAY			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top Depth:		12.0			
Formation End Depth:		28.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931038509			
Layer:		7			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		180.0			
Formation End Depth:		235.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931038507			
Layer:		5			
Color:		1			
General Color:		WHITE			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:		78			
Mat2 Desc:		MEDIUM-GRAINED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		60.0			
Formation End Depth:		110.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931038503			
Layer:		1			
Color:		6			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		77			
Mat2 Desc:		LOOSE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		12.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931038505			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		21			
Most Common Material:		GRANITE			
Mat2:		90			
Mat2 Desc:		VERY			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		28.0			
Formation End Depth:		42.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961518459			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10588899			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930070406			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930070407			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		235.0			
Casing Diameter:		6.0			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991518459			
Pump Set At:					
Static Level:		60.0			
Final Level After Pumping:		100.0			
Recommended Pump Depth:		150.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		5.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934103775			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		75.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934640421			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		100.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934898464			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		100.0			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934379361			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		90.0			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933475176			
Layer:		1			
Kind Code:		1			

<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>
Kind:		FRESH			
Water Found Depth:		180.0			
Water Found Depth UOM:		ft			

Water Details

Water ID: 933475177
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 210.0
Water Found Depth UOM: ft

Water Details

Water ID: 933475178
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 230.0
Water Found Depth UOM: ft

Links

Bore Hole ID: 10040329
Depth M: 71.628
Year Completed: 1983
Well Completed Dt: 1983/06/16
Audit No:

Tag No: 1558
Contractor: 151\1518459.pdf
Path: 151\1518459.pdf
Latitude: 45.3190999911101
Longitude: -76.0356477543903

Unplottable Summary

Total: 2 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	City of Ottawa	Lot 13	Ottawa ON	
WWIS		lot 13	ON	

Unplottable Report

Site: City of Ottawa
Lot 13 Ottawa ON

Database:
CA

Certificate #: 3399-6BVHAA
Application Year: 2005
Issue Date: 6/10/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: lot 13 ON

Database:
WWIS

Well ID: 1520666
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OTTAWA CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 08-Aug-1986 00:00:00
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1517
Form Version: 1
Owner:
County: OTTAWA
Lot: 013
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042508
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 17-Jul-1986 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931045467
Layer: 1
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 75.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933109179
Layer: 1
Plug From: 0.0
Plug To: 30.0
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961520666
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10591078
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074202
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520666
Pump Set At:
Static Level: 1.0
Final Level After Pumping: 40.0
Recommended Pump Depth: 60.0
Pumping Rate: 20.0
Flowing Rate:

Recommended Pump Rate: 70.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934648438
Test Type:
Test Duration: 45
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112552
Test Type:
Test Duration: 15
Test Level: 20.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387835
Test Type:
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907199
Test Type:
Test Duration: 60
Test Level: 40.0
Test Level UOM: ft

Water Details

Water ID: 933477982
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 72.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Mar 2022

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: 1999-Sep 30, 2021

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks:

Provincial CFOT

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

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

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Private CNG

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

Government Publication Date: Dec 2012 -Apr 2022

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Mar 2022

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - May 31, 2022

Drill Hole Database:

Provincial [DRL](#)

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

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

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

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry:

Provincial [EASR](#)

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

Government Publication Date: Oct 2011- Apr 30, 2022

Environmental Registry:

Provincial [EBR](#)

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

Government Publication Date: 1994 - May 31, 2022

Environmental Compliance Approval:

Provincial [ECA](#)

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

Government Publication Date: Oct 2011- Apr 30, 2022

Environmental Effects Monitoring:

Federal [EEM](#)

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

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

Government Publication Date: 1999-Mar 31, 2022

Environmental Issues Inventory System:

Federal [EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

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

Government Publication Date: 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, 2021

List of Expired Fuels Safety Facilities:

Provincial **EXP**

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

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

Government Publication Date: Feb 28, 2022

Federal Convictions:

Federal **FCON**

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

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

Government Publication Date: Jun 2000-Apr 2022

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

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

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

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

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

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

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

Government Publication Date: 1986-Feb 28, 2022

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

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

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing 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: Feb 28, 2022

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

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

Government Publication Date: Mar 21, 2022

Canadian Mine Locations:

Private

[MINE](#)

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

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

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

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

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

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

Government Publication Date: 1988-May 31, 2022

Ontario Oil and Gas Wells:

Provincial

OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites:

Provincial

OPCB

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

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

Orders:

Provincial

ORD

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

Government Publication Date: 1994 - May 31, 2022

Canadian Pulp and Paper:

Private

PAP

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

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

Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

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

Government Publication Date: Oct 2011- Apr 30, 2022

Pipeline Incidents:

Provincial PINC

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

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994 - May 31, 2022

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

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

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

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

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

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

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

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

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

Government Publication Date: 1990-Dec 31, 2020

Anderson's Storage Tanks:

Private [TANK](#)

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

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

Government Publication Date: 1970 - Dec 2020

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: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

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

Government Publication Date: Oct 2011- Apr 30, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 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: Jan 31, 2022

Definitions

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

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

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

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

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

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

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

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

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

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

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

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



APPENDIX F

Technical Standards & Safety Authority Response

Ester Wilson

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Tuesday, July 26, 2022 7:20 AM
To: Ester Wilson
Subject: RE: Search Request for Tanks

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

RECORD FOUND IN CURRENT DATABASE

Hello,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are records in our current database of fuel storage tanks at the subject address(es).

Inventory Number	Address	City	Province	Postal Code	Status	Asset Class / Inventory Conte
10656332	1500 THOMAS ARGUE RD	CARP	ON	KOA 1L0	EXPIRED	FS Liquid Fuel Tank
10656373	1500 THOMAS ARGUE RD	CARP	ON	KOA 1L0	EXPIRED	FS Liquid Fuel Tank
9367686	1500 THOMAS ARGUE RD	CARP	ON	KOA 1L0	EXPIRED	FS Facility

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click Release of Public Information - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue;
 - a. When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;

5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.

Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind Regards,
Kim



Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org

www.tssa.org



From: Ester Wilson <ester.wilson@gemtec.ca>

Sent: July 25, 2022 4:05 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: Search Request for Tanks

[CAUTION]: This email originated outside the organisation.

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Hello TSSA,

May I please request a search request for tanks at the following addresses:

- 1451 Diamondview Rd, Carp, ON K0A 1L0
- 70 Wingover Private, Ottawa, ON K0A 1L0
- 44 Sopwith Pvt, Carp - Hardwood Plains, ON K0A 1L0
- 1500 THOMAS ARGUE RD
- 1450 DIAMONDDVIEW RD
- 306 TAILSLIDE PRIV
- 322 TAILSLIDE PRIV

Thanks,
Ester



Ester Wilson, BSc., GIT
Junior Environmental Scientist
Ottawa, ON
tel: 613.836.1422 / toll-free: 1.877.243.6832
mobile: 613.585.2041 / fax: 613.836.9731

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APPENDIX G

Aerial Photographs



HISTORICAL AERIALS

Project Property: Phase One Environmental Site Assessment - Albert Boyd Private and C
Albert Boyd
Ottawa ON K0A 1L0

Project No: 101491.002

Requested By: GEMTEC Consulting Engineers and Scientists Limited (Ontario)

Order No: 22071800192

Date Completed: July 28, 2022

Decade	Year	Image Scale	Source
1920	Not Available		
1930	Not Available		
1940	1946	20000	NAPL
1960	1967	15000	NAPL

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Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com



0 0.125 0.25 0.5
Kilometers

Order Number: 22071800192

Year: 1946
Source: NAPL
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22071800192

Year: 1967
Source: NAPL
Map Scale: 1: 10000
Comments:





APPENDIX H

Site Photographs



Photograph 1: View from the centre of the Site looking east.



Photograph 2: View from the centre of the Site looking north.



Photograph 3: View from the centre of the Site looking west.



Photograph 4: View from the centre of the Site looking south.



Photograph 5: Unnamed creek flowing through a culvert directly west of the Site under Albert Boyd Road.



Photograph 6: One of multiple utility access points for future services across the Site.



Photograph 7: Pile of excess granular material for engineered subgrade from the Thomas Cavanagh March Road quarry for development in Phase 1B, placed on the Site between January and March 2022.



Photograph 8: One of several groundwater shutoff valves observed across the Site.



Photograph 9: Four OGS units observed on the northernmost portion of the Site and South of the stormwater discharge pond.



Photograph 10: Stormwater discharge pond directly north of the Site, viewed from the north boundary of the Site.



Photograph 11: Chandelle Road running north-south directly to the west of the Site bounds.