



Terraprobe

*Consulting Geotechnical & Environmental Engineering
Construction Materials Inspection & Testing*

**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
979 AND 989 MAPLEVIEW DRIVE EAST
BARRIE, ONTARIO**

Prepared for:

**CRYSTAL HOMES
2031 JAMES STREET
BURLINGTON, ONTARIO
L7R1H2**

Attention:

Ms. Kelly Lagace

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1 EXECUTIVE SUMMARY

Terraprobe Inc. (Terraprobe) was retained by Crystal Homes to complete a Phase One Environmental Site Assessment (Phase One ESA) of the property (herein referred to as “Property or Phase One Property”) located on the south side of Mapleview Drive (Dr.) East in the City of Barrie. The municipal addresses of the Property are 979 and 989 Mapleview Dr. East, Barrie, Ontario.

The Property is located approximately 300 m east of Yonge Street in the City of Barrie, Ontario. The Phase One Property is rectangular in shape and covers an area of approximately 19.4 hectares. The Property is currently vacant agricultural land and was previously leased for corn farming. It was reported that the farm house and a shed previously present on the Property were historically demolished and removed from the Property. The surrounding properties are predominantly agricultural with some residential land uses.

At the time of site inspection, it was observed that the Property was recently ploughed with sporadic areas of the land covered with natural vegetation (grasses). A wetland was observed at the central portion of the Property.

The Phase One ESA is required for due diligence purposes prior to the proposed development of the Property for residential purposes. The Property is agricultural in land use per Ontario Regulation 153/04 (O.Reg.153/04).

The objective of the Phase One ESA was as follows:

- To assess environmental condition of the Phase One Property.
- To identify potentially contaminating activities (PCAs) within the Phase One Property and Phase One Study Area (Study Area) (i.e., areas within 250 m of the Property).
- Based on the above, to identify issues of obvious or potential environmental concern with respect to the Property.

The Phase One ESA was completed to satisfy the intent of the requirements, methodology, and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The Phase One ESA involved the following main tasks:

- Review of Ontario Ministry of Environment publications including the Ontario Inventory of PCB Storage Sites and the Ontario Waste Disposal Site Inventory;
- Review of available ownership/occupancy records for the subject site;
- Review of historic air photo, maps, surficial/bedrock geologic information, and various information available from Regulatory Agencies;
- Interviews with available individuals having some knowledge of current and/or historical site activities;
- A reconnaissance inspection of the Property; and



- Evaluation of the information and documentation.

Based upon the review and evaluation of information gathered, the findings of the Phase One ESA are follows:

- The Property has remained in agricultural use. The Property has reportedly been cultivated for corn farming. Based on the historical and current use of the Property for agricultural activities, herbicides/pesticides might have been used on the Property for farming purposes. However, bulk storage or large-scale application of herbicides and pesticides is considered to be unlikely. The potential for adverse impact to the environmental condition of the Phase One Property is considered to be low based on the use of the Property for agricultural purposes.
- The Property and Study Area were historically used for agricultural land uses. No evidence of orchards or greenhouses was identified on the Property or the surrounding area. Therefore, the current or historical application of herbicides and pesticides is not identified.

The potential for adverse impact to the environmental condition of the Phase One Property is considered to be low based on the use of the Property for agricultural purposes. Based upon the review and evaluation of information gathered from the Phase One ESA, there are no PCAs noted on the Phase One Property or within the Study Area. A requirement for further investigation is not identified at this time.

In the event of future site development and any off-site removal of topsoil from the Property, the environmental quality testing of the topsoil would be required by the receiving site prior to offsite disposal.



2 INTRODUCTION

Terraprobe was retained by Crystal Homes to complete a Phase One ESA of the Property located on the south side of Mapleview Dr. East in the City of Barrie. The municipal addresses of the Property are 979 and 989 Mapleview Dr. East, Barrie, Ontario.

The Property is located approximately 300 m east of Yonge Street in the City of Barrie, Ontario.

The Phase One Property is rectangular in shape and covers an area of approximately 19.4 hectares. The Property is currently vacant agricultural land and was previously leased for corn farming. It was reported that the farm house and a shed that was previously present on the Property were historically demolished and removed from the Property. The surrounding properties are predominantly agricultural with some residential land uses. The general location of the Property is presented in the Phase One Property Location (Figure 1).

At the time of site inspection, it was observed that the Property was recently ploughed with sporadic areas of the land covered with natural vegetation (grasses). A wetland was observed at the central portion of the Property.

2.1 Phase One Property Information

The Property information is provided as below.

Legal Description	Part Lot 19 Con 11 Innisfil, Part 2 Plan 51R35948
PIN	58092-0080 (LT) and 58092-0079 (LT)
Zoning	AG, RR and EP` Bylaw 054-04 Innisfil as per City of Barrie zoning bylaw
Area	19.47 ha
Zone Northing Easting	17T 4912003.72 611752.30 and 17T 4912248.36 611764.06

The ownership information for the Phase One Property is as below:

Property Owner Information	Sandy Creek Estates Inc. 2031 James Street Burlington, Ontario L7R 1H2
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2.2 Site Description

The Property is located on the south side of Mapleview Drive in the City of Barrie. The municipal addresses of the Property are 979 and 989 Mapleview Dr. East, Barrie, Ontario.



The Property is located approximately 300 m east of Yonge Street in the City of Barrie, Ontario. The Phase One Property is rectangular in shape and covers an area of approximately 19.4 hectares. The Property is currently vacant agricultural land. The surrounding properties are predominantly agricultural with some residential land uses.

At the time of site inspection, it was observed that the Property was recently ploughed with sporadic areas of the land covered with natural vegetation (grasses). A wetland was observed at the central portion of the Property. Site features are presented in Figure 2. Site photographs are shown in Appendix D.

2.3 Buildings

The Property is currently vacant agricultural land. There are no buildings on the Property. The farm house and a shed that were previously present on the Property were historically demolished and removed. No evidence of building structures were observed during the site inspection.

2.4 Purpose of Investigation

It is understood that the Phase One ESA is required for due diligence purposes prior to the proposed development of the Property for residential use. This Phase One ESA is conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, and amended by Ontario Regulation 511/09 (O.Reg.153/04).

The objective of the Phase One ESA was as follows:

- To assess the environmental condition of the Property.
- To identify PCAs within the Study Area.
- Based on the above, to identify issues of obvious or potential environmental concern with respect to the Property.

Current Land Use

The Property is currently agricultural land. The surrounding properties are a mix of residential and agricultural land uses. Under the Ministry of the Environment, Conservation and Parks (MECP) and in accordance with the applicable environmental regulation (Ontario Regulation 153/04), the current use of the Property is vacant agricultural use. The Property was leased for farming purposes until December 2019.

Future Land Use

It is understood that the Property is proposed to be developed for residential purposes. Under O.Reg.153/04 the future land use of the Property would be considered residential land use.



The Phase One ESA was completed to satisfy the intent of the requirements, methodology, and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The Phase One ESA involved the following main tasks:

- Review of Ontario Ministry of Environment publications including the Ontario Inventory of PCB Storage Sites and the Ontario Waste Disposal Site Inventory;
- Review of available ownership/occupancy records for the subject site;
- Review of historic air photo, maps, surficial/bedrock geologic information, and various information available from Regulatory Agencies;
- Interviews with available individuals having some knowledge of current and/or historical site activities;
- A reconnaissance inspection of the Property; and
- Evaluation of the information and documentation.



3 SCOPE OF INVESTIGATION

The Phase One ESA involved the following principal tasks:

- A review of records and reports regarding historical and current occupancy and activities for the Property and Study Area.
- Interviews with available individuals having knowledge of current and/or past site activities.
- An inspection of the Property and observation of the Study Area.

The information on the Property and Study Area is summarized in this report. Sampling and analysis of soil, ground water, or other materials (e.g., construction materials, air) were not carried out as part of the investigation.

3.1 Records Review

The records review provides information on historical and current activities. The objectives of the records review were as follows:

- To obtain and review records that relate to the current and past uses, site features and activities at the Property.
- To obtain and review records that relate to PCAs, water bodies, and areas of natural significance in the Study Area (in addition to the Property).
- Based on the above, to provide an assessment of actual and potential contaminating activities and concerns with respect to the environmental condition of the Property.

The following sources of information were reviewed:

- Archival information for the site including aerial photographs, topographic maps, historical maps and drawings.
- Site-specific environmental reports and/or company records (e.g., Certificates of Approval, waste generator registration, approvals, and permits) provided to Terraprobe.
- Geological and hydrogeological information in published government maps and/or reports.
- Databases maintained by EcoLog Environmental Risk Information Services Ltd. (ERIS) containing environmentally related information from private, provincial, and federal sources.
- Fire insurance plans (FIPs) and insurance inspection reports (and related plans) on file with EcoLog ERIS.
- Published Ontario MECP directories related to registered PCB storage sites and active and closed landfill sites.
- The Ontario Ministry of Natural Resources and Forestry (MNRF) Natural Heritage Information Centre database for information specific to natural areas, such as locations of environmentally sensitive areas.



- Published information regarding an Official Plan for the area.
- Sensitivity mapping by the local Conservation Authority.

3.2 Interviews

The objectives of the interview were:

- To obtain information to assist in determining if an area of potential environmental concern exists.
- To identify details of potentially contaminating activities or potential contaminant pathways in, on or under the Property.

Key personnel was interviewed and asked questions related to specific site activities, such as:

- The nature of the operations.
- Handling and storage of environmentally sensitive products and related wastes.
- Environmental approvals and registrations.
- Knowledge of previous reports related to the environmental condition of the Property.
- Issues related to non-compliance, orders, or charges related to environmental conditions on the Property.

3.3 Site Reconnaissance

The objectives of the site reconnaissance were:

- To identify potential environmental concerns based on observations of current and past uses, and PCAs at the Property and in the Study Area.
- To identify potential pathways for contamination at the Property and Study Area.

The site reconnaissance included a review of issues of potential environmental concern, including the following:

- Activities and practices including site operations, processes and waste management currently carried out on the Property.
- Evidence of past waste disposal, landfill or fill placement on the Property.
- The presence of hazardous or toxic chemicals, materials or processes.
- The presence of existing or former aboveground or underground fuel storage tanks.
- Identification of heating and cooling systems.
- The presence of floor cracks, hydraulic hoists, elevators, sumps and drains, wells, pits and lagoons.
- Identification of water supply source to the Property.



- The presence of various designated substances and building materials, including friable and non-friable asbestos, PCB-containing materials and electrical equipment, lead-based paint, mould, and chlorofluorocarbons (CFCs) in air-conditioning and refrigeration equipment.
- Evidence of stained or odorous soils and stressed vegetation.

In addition, an inspection of adjacent properties within the Study Area (identified in Section 4.1.1) was completed to assess the potential for operations being carried out on those properties to impact on the environmental condition of the Property. The inspection of adjacent properties was limited to inspection from the Property boundaries and public areas (roads, sidewalks, etc.).

3.4 Documentation and Evaluation of Information

The information obtained from the records review, interviews and site reconnaissance was described, documented and evaluated as summarized below:

- Documentation of information, as noted in subsequent sections of the report.
- Description of PCAs.
- Description of areas of potential environmental concern.
- Development of a Phase One Conceptual Site Model (CSM).
- Discussion of the need, if any, for further investigation.



4 RECORDS REVIEW

4.1 General

4.1.1 Phase One Study Area Determination

The Study Area consisted of properties located within a 250 m radius of the Property. Residential properties were situated to the west, agricultural properties are situated to the north, east and south. The Phase One Study Area is shown in Figure 3.

Based on the historical Property use and no development on the Property and surrounding area, the Qualified Person determined that a 250 m study area around the Property was sufficient to identify issues of potential environmental concern that could potentially impact the environmental condition of the Property.

4.1.2 First Developed Use Determination

The determination of first developed use was based on the review of aerial photographs, historical mapping, and property ownership records. The details and evaluation of the above noted information sources are provided in subsequent sections of this report.

Based on the evaluated information:

- The Property passed from Crown ownership in 1821.
- The Property was agricultural in Land Use (farmhouse and used as agricultural land) from 1862 till date, based off of the review of historical records and available aerial photos from 1954 to date.

The table of Current and Past Land Uses of the Property is provided in Appendix A.

4.1.3 Fire Insurance Plans and Insurance Inspection Reports

FIPs were searched through Ecolog ERIS for the Property. No FIPs or Insurance Inspection Reports were available for review during the records search for the Phase One Property.

4.1.4 Chain of Title

A chain of title search for the Property dating back to Crown ownership was completed and summarized below.

- The Property transferred from Crown ownership to private individuals in 1821.
- The Property was owned by a mix of private individuals until 2007 when Finger Lakes Estates Inc., took ownership



The results of the title search are presented in Appendix F. No PCAs were identified for the Property within the chain of title search.

4.1.5 City Directory Search

Available city directories were reviewed for the Property and adjacent properties. The Property is currently vacant agricultural land. The full search results can be found in Appendix E.

No PCAs were identified for the Phase One Property or Study Area in the city directories search.

4.1.6 Environmental Reports

No environmental report was available for Terraprobe to review.

4.2 Environmental Source Information

4.2.1 EcoLog ERIS

ERIS is an organization that maintains and searches various government and private databases for property-related environmental information. A search of the ERIS Ltd. databases was requested for the Property and Study Area. Records of environmental concern were found for the Phase One Property and the Phase One Study Area. The ERIS Report is provided in Appendix G.

The search within a 250 m radius identified three (3) listings for the Phase One Property and nine (9) listings for properties within the Study Area. The list only included entries related to ERIS historical searches or water well records. No PCAs were identified for the Phase One Property or the Study Area.

4.2.2 Other Source Information

Other environmental source information was searched as part of the Phase One ESA. The information that was searched included:

- Freedom of Information (FOI) request to the Ontario MECP. The FOI request determines if information regarding orders, investigations or other information on file with respect to the Property.
- Technical Standards and Safety Authority (TSSA) was contacted in regards to records related to storage tanks for petroleum-related products with respect to the Property.
- The local Conservation Authority was contacted to determine if the Property was considered regulated under the Conservation Authorities Act and Ontario Regulations 42/06, 146/06 to 182/06 and 97/04.
- Municipal Zoning and Official Plan information was reviewed.



The information requests and responses are provided in Appendix J and are summarized below:

Information Request	Response
MECP FOI	A written request was submitted to the Ontario MECP, FOI Office to determine if there is information regarding orders, investigations, or other information on file with respect to the Phase One Property. This includes a search for information regarding parameters such as air emissions, water, sewage, wastewater, and pesticides. No response was received at the time of this report. In addition, information from the Ontario Ministry of the Environment was reviewed as part of the Ecolog ERIS database search, which is summarized in Section 4.2.1., including but not limited to, information on Certificates of Approval, Compliance, and Convictions, Waste Disposal Sites, PCB Storage Sites, and Waste Generators.
MECP PCB Storage Sites and Landfill Sites	Directories published by the MECP related to waste disposal sites [Ref. 14] and PCB storage sites [Ref. 13], and the Brownfields Environmental Site Registry was reviewed.
TSSA	The TSSA maintain records related to storage tanks for petroleum-related products. The TSSA was contacted to review records related to the Phase One Property and Study Area. No response was received at the time of this report.
Conservation Authority	The Property falls within the Lake Simcoe Region Conservation Authority regulated area.
Zoning	AG, RR and EP Bylaw 054-04 Innisfil as per City of Barrie zoning bylaw

No PCAs were identified within the other source information search with the exception of the former landfill located adjacent east of the Phase One Property.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs from 1954, 1989, 1997, and satellite images from 2002, 2008, 2012, 2013 and 2019 were reviewed. These documents provide a visual record of the historical, physical conditions on the subject property and surrounding area. A selection of aerial photographs and historical maps are presented in Appendix C. The state of development of the Property and Study Area is summarized below.

Date	Type	Subject Property	Surrounding Area
1954	Aerial Photo	The Phase One Property appears to be agricultural land	The surrounding properties to the north, east, south and west appear to be agricultural land
1989	Aerial Photo	Some farm related buildings such as a farmhouse and barn are visible in the aerial photo	No significant changes
1997	Aerial Photo	No significant changes	No significant changes
2002	Aerial Photo	No significant changes	No significant changes
2008	Aerial Photo	Buildings appear to have been removed	No significant changes



Date	Type	Subject Property	Surrounding Area
2012	Aerial Photo	No significant changes	A subdivision is being constructed in the north west quadrant of the Study Area
2013	Aerial Photo	No significant changes	No significant changes
2019	Aerial Photo	No significant changes	No significant changes

4.3.2 Topography, Hydrology, Geology

A topographic map from the Ontario MNRF and the geological mapping produced by the Ontario Ministry of Northern Development and Mines - *Ontario Geological Survey* was reviewed. The information gleaned from the mapping is summarized below. The maps are provided in Appendix H.

Topography	Based on topographic information from the 1982 Ontario Base Map, the Property ground surface elevation is approximately 255 m above mean sea level.
Hydrogeology	The nearest water body is Kempenfelt Bay which is approximately 2.5 km north.
Geology (overburden)	The overburden consists of sandy silt to silt matrix, moderate to high in matrix carbonate content, clast content moderate to high.
Geology (bedrock)	The bedrock on the site consists of Simcoe Group (Trenton - Black River) which consists of limestone and is known as the Lindsay formation.
Geology (depth to bedrock)	Based upon historic borehole information from the MNRF and Water Well Records in the vicinity from the MECP, the depth to bedrock in the area of the Property is beyond 45 m.

4.3.3 Fill Materials

Based upon the historic land use of the Property (agricultural land), it is unlikely that fill material was imported to the Property. No evidence of fill was observed during the site inspection.

4.3.4 Water Bodies and Areas of Natural Significance

Mapping from the Ontario MNRF was reviewed to determine if water bodies were present on the Property and within the Study Area. The Ontario Ministry of Natural Resources National Heritage Information Centre database for listings of Areas of Natural or Scientific Interest (ANSIs) was reviewed. The information is summarized below.

Water Bodies (Property)	No water bodies were identified on the Property.
Water Bodies (Study Area)	No water bodies are within the Study Area.



Wetland (Property)	<u>Provincially Significant</u> - No Provincially Significant wetlands are present on the Property. <u>Non- Provincially Significant</u> - No Non- Provincially Significant wetlands are present on the Property. <u>Unevaluated</u> - Unevaluated wetlands are present at the central portion of the Property, according to the information available on Simcoe.ca. The unevaluated wetland would cover approximately 30% to 35% of the overall property.
Wetland (Study Area)	<u>Provincially Significant</u> - No Provincially Significant wetlands are present in the Study Area. <u>Non- Provincially Significant</u> - No Non- Provincially Significant wetlands are present in the Study Area. <u>Unevaluated</u> - Unevaluated wetlands are present in the Study Area to the east, west and south of the Phase One Property.
ANSIs (Property)	<u>Provincially Significant Life Science ANSI</u> - No Life Science ANSIs were identified on the Property. <u>Provincially Significant Earth Science ANSI</u> - No Earth Science ANSIs were identified on the Property.
ANSIs (Study Area)	<u>Provincially Significant Life Science ANSI</u> - No Life Science ANSIs were identified in the Study Area. <u>Provincially Significant Earth Science ANSI</u> - No Earth Science ANSIs were identified in the Study Area.

4.3.5 Archaeological Resources or Areas of Archaeological Potential

The Property is not considered to be of provincial heritage significance under the Ontario Heritage Act. No additional archaeological evaluation of the Property was conducted as part of the Phase One ESA.

4.3.6 Species at Risk

No science-based assessment of potential species at risk or species habitat was conducted as part of the Phase One ESA.



4.3.7 Well Records

The Ontario MECP well records database was searched through EcoLog ERIS and through the Ministry of the Environment Online Water Well Database for records located on the Property and in the Study Area (within 250 m). A copy of the Well Records is provided in Appendix J and is summarized below.

Water Wells (Property)	• According to well records from EcoLog ERIS, there are three (3) drinking water wells located on the Property.
Water Wells (Study Area)	• No drinking water wells were located within the Study Area. • Ten (10) other wells were located within the Study Area.
Stratigraphy	• 0 to 1 m – clay • 1 to 10 m – clay, stones • 10 to 12 m – fine sand • 12 to 14 m – coarse sand
Depth to Water Table	• Approximately 1.0 m-3.0 m depending on seasonal fluctuations
Depth to Bedrock	• Beyond 14 m

4.4 Site Operating Records

No site operating records were provided for review. Past and current use of the Phase One Property is agricultural land.



5 INTERVIEWS

An interview was conducted with individuals with knowledge of the current or historic environmental condition of the Property through a questionnaire. The interview revealed that the property was previously used for agricultural purposes and was leased to a farmer until December 2019.

Name	Ms. Kelly Lagace
Employer	Crystal Homes Corporation
Position or Title	Land Development, Planning and Engineering Project Manager
Duration of Employment	Over Eight (8) years
Method of Interview	By E-mail
Reason for Selection	Ms. Lagace is the Project Manager of the Phase One Property and is involved with the Phase One Property. She is familiar with site history and development. Ms. Lagace was selected for interview, as she is the person with the most knowledge about the site who was available for interview.
Assessment of the Information	The information provided by Ms. Lagace appeared to be accurate.
Relevant Information	The following summarizes the information that was provided in response to the interview and questionnaire, based on her knowledge of the site activities: • The previous and current use of the Property included agricultural (corn farming) purposes. Previous farmhouse on the property was historically demolished. • To her knowledge, no underground or above ground fuel storage tanks, hazardous material, asbestos-containing materials, PCB, or other items of potential environmental concern are present at the Property. • The Property is not a waste generating site registered with the Ministry of the Environment. • Pesticide and herbicide have not been used for farming on the Property. • The Property has not been used as an orchard.

No potential environmental concerns were noted from the information provided by Ms. Kelly Lagace. The records of the answers to the interview questions and responses from the regulating agencies are provided in Appendix I.



6 SITE RECONNAISSANCE

6.1 General Requirements

Date of Investigation	May 5, 2020
Time of Investigation	11:45am
Weather Conditions	Sunny, 8°C
Duration of Investigation	2.5 hours
Was the Facility Operating?	Not Applicable (vacant agricultural land)
Person(s) Conducting Investigation and Qualifications	Kim Pickett, CET, LET, QP _{ESA} under the supervision of Samuel Oyedokun, P.Eng., QP _{ESA} .

6.2 Specific Observations at Phase One Property

The site reconnaissance included a walking tour of the Property, as well as compiling written and photographic records. Site features are illustrated in Figure 2, and photographs are presented in Appendix D.

6.2.1 Building Description

The Property currently consists of vacant agricultural land.

6.2.2 Designated Substances and Other Special Attention Items

The inspection was carried out at the accessible areas and included an assessment of the potential presence of the following materials:

- Designated substances (i.e., acrylonitrile, asbestos, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica, vinyl chloride).
- Polychlorinated biphenyls (PCBs).
- Ozone-depleting substances.
- Urea-formaldehyde foam insulation (UFFI).
- Special attention items (i.e., mould, radioactive materials).

The presence of these materials based on the site reconnaissance is summarized below.



Asbestos	No evidence of asbestos material was observed.
Lead	No suspected lead-based paint or plumbing components were observed during the inspection of visually accessible areas.
Mercury	No materials containing mercury were observed during the site inspection.
PCBs	No materials containing PCBs were observed during the site inspection.
Ozone Depleting Substances	No ozone depleting substances were observed during the site inspection.
UFFI	No UFFI products were observed during the site inspection.
Mould	No mould or areas of excessive dampness were observed during the site inspection.
Radioactive Materials	No manmade sources of radiation were observed during the site inspection.
Herbicides and Pesticides	During the site inspection, no materials containing herbicides or pesticides were observed to be stored at the site.

6.2.3 Below Ground Structures

There were no building structures present on the Property. No below ground structures or evidence of historical below ground structures were observed during the site inspection.

6.2.4 Aboveground Storage Tanks

No above ground storage fuel tanks or evidence of historical above ground storage fuel tanks was observed during the site inspection.

6.2.5 Underground Storage Tanks

No underground storage tanks or evidence of historical underground storage tanks was observed during the site inspection.

6.2.6 Exterior Site Conditions

The Phase One Property is roughly rectangular in shape and covers an area of approximately 19.47 hectares. The Property is currently agricultural land. The surrounding properties are predominantly agricultural with some residential land uses.

Additional details of the Property are provided below.



Water Sources	The property is currently vacant land.
Current and Former Wells	Despite three (3) wells identified in the well records, no evidence of water supply wells on the Property were noted during the site inspection.
Sewage Works	No sewage works were present on the Property at the time of the site inspection.
Railways	No railways were observed on the Phase One Property or in the Study Area.
Stained and Odorous Soils	No stained or odorous soils were observed on the Property during the site inspection.
Stressed Vegetation	No areas of stressed vegetation were noted during the site inspection.
Underground Utilities and Services	No underground utilities or services were noted on the Property during the site inspection.
Fill Materials	No indication of any placement of fill material on the Property was noted.
Watercourses, Ditches or Standing Water	A ditch for collection of surface run off was observed at the Property boundaries.

6.3 Enhanced Investigation Property

An Enhanced Investigation Property is “(i) a property used, or has ever been used, in whole or part, for an industrial purpose, or (ii) a commercial property used as a garage, a bulk liquid dispensing facility, including a gasoline outlet or for the operation of dry cleaning equipment” (O.Reg.511/09).

Based on the records review and Property visit, the current and historical activities on the Property do not qualify the site as an Enhanced Investigation Property.

6.4 Investigation of Phase One Study Area

At the time of the site inspection, the following land uses were noted on the properties immediately adjacent to the Property.

Direction	Land Uses
North	Agricultural with some residential dwellings
East	Agricultural
South	Agricultural
West	Residential

6.5 Written Description of Investigation

The site inspection included a walking tour of the entire Property, as well as compiling written and photographic records. The inspection of the Property and Study Area was conducted by Kim Pickett, CET, LET, QP_{ESA} on May 5, 2020 under the supervision of Samuel Oyedokun, P. Eng., QP_{ESA}.



The Property is located on the south side of Maplevue Dr. East in the City of Barrie. The municipal addresses of the Property are 979 and 989 Maplevue Dr. East in Barrie, Ontario. The Phase One Property is rectangular in shape and covers an area of approximately 19.4 hectares. The Property is currently agricultural land. The surrounding properties are predominantly agricultural with some residential land uses. The general location of the Property is presented in the Phase One Property Location (Figure 1).

At the time of site inspection, it was observed that the Property was recently ploughed with sporadic areas of the land covered with natural vegetation (grasses). A wetland was observed at the central portion of the Property. No below ground structures or evidence of historical structures were observed during the site inspection.

6.6 Potentially Contaminating Activity

No obvious items of potential environmental concern (e.g., stored chemicals, fuel storage tanks, stained areas, etc.) were visible on the surrounding properties. Surrounding properties are predominantly agricultural/undeveloped and some residential in use.

No PCAs were identified at the Phase One Property or within the Study Area.



7 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

Current and past uses of the Property were determined from historical aerial photographs, FIPs, chain of title documents and city directories. The full list of current and past uses of the Property is provided in Appendix A, in a form approved by the Ontario MECP under O.Reg.153/04.

7.2 Potentially Contaminating Activities

There were no PCAs identified at the Property and Study Area based on the historic records and reconnaissance of the site.

7.3 Areas of Potential Environmental Concern

Based upon the review and evaluation of information gathered from the Phase One ESA, there are no PCAs noted on the Property or within the Study Area. A requirement for further investigation is not identified at this time.

The potential for adverse impact to the environmental condition of the Property is considered to be low based on the use of the Property for agricultural (corn farming) purposes.

In the event of future site development and any off-site removal of topsoil from the Property, the environmental quality testing of the topsoil would be required by the receiving site prior to offsite disposal.

7.4 Uncertainty or Absence of Information

A discussion and description of how any uncertainties or absence of information may affect the conclusion as to the presence of any Area of Potential Environmental Concern or the validity of the Phase One CSM is provided in the table below.

Component	Uncertainty or Absence of Information	Effect on Phase One CSM
FIPs	No FIPs for the Phase One property.	No effect upon the Phase One CSM
Chain of Title	Chain of Title dating back to Crown ownership was obtained as part of the investigation. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM
Environmental Reports	No Environmental Reports of the Phase One Property was available.	No effect upon the Phase One CSM



Component	Uncertainty or Absence of Information	Effect on Phase One CSM
Environmental Source Information	Environmental Source Information was searched through a combination of ERIS and FOI requests. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM
Aerial Photographs	Aerial Photographs were obtained from a combination of federal, provincial, municipal and private sources. The series of air photos selected represent the development of the Phase One Property and Study Area. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM
Topography, Hydrogeology, and Geology	The Topography, Hydrogeology, and Geology were evaluated through available resources from the MNRF as well as Water Well Records. As such, there exists no known void or absence of information for this component	No effect upon the Phase One CSM
Water Bodies and Areas of Natural Significance	Water Bodies and Areas of Natural Significance were evaluated through available resources from the MNRF, local conservation authorities and the Ministry of the Environment. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM
Well Records	Well Records through the summary provided by ERIS as well as the Ministry of the Environment Water Well Information System. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM
Site Reconnaissance	Unrestricted access to the Phase One Property was provided during the Site Reconnaissance.	No effect upon the Phase One CSM
Interviews	Interviews with persons knowledgeable regarding the current and historic environmental condition of the Phase One Property were not conducted. However, it was the belief of the QP that not being able to interview knowledgeable individuals did not pose a significant void in the information on historical or current site activities that would significantly affect the CSM. As such, there exists no known void or absence of information for this component.	No effect upon the Phase One CSM

Based upon the information obtained, as noted above, it is the belief of the QP_{ESA} that there are no significant uncertainties or absence of information that would affect the conclusion as to the presence of an Area of Potential Environmental Concern or the validity of the Phase One CSM.

It is our opinion that the absence of information, specifically any outstanding responses from the regulatory agencies will not significantly affect the findings and conclusions presented in this report.



8 CONCLUSIONS

8.1 Phase Two ESA Required Before Record of Site Condition

Based upon the review and evaluation of information gathered from the Phase One ESA, there are no PCAs noted on the Phase One Property or within the Study Area.

As such, no further investigation is required. In the event of future site development and any off-site removal of topsoil from the Property, the environmental quality testing of the topsoil would be required by the receiving site prior to offsite disposal.

8.2 Signatures

The Phase One ESA has been completed by Mark Carhart, under the direction and supervision of Kim Pickett, CET, LET, QP_{ESA} and Samuel Oyedokun, P.Eng., PMP, QP_{ESA}. The findings and conclusions presented in this report have been determined on the basis of the information that was obtained and reviewed, and on an assessment of the existing conditions on the Phase One Property and properties within the Study Area.

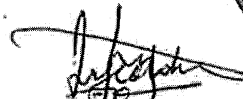
The Phase One ESA was completed in accordance with Ontario Regulation 153/04 (Records of Site Condition-Part XV.1 of the Environmental Protection Act). The objectives and requirements set out in that Ontario Regulation 153/04, for a Phase One ESA, were applied in carrying out this environmental site assessment and preparation of the report. The Phase One ESA met the requirements set out in that Ontario Regulation 153/04.

We trust this report meets your requirements. Should you have any questions regarding the information presented, please do not hesitate to contact our office.

Yours truly,
Terraprobe Inc.



Kim Pickett, CET, LET, QP_{ESA}
Senior Environmental Project Manager



Samuel Oyedokun, P.Eng., PMP., QP_{ESA}
Associate



9 REFERENCES

1. Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
2. Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
3. Gao, C., Shiota, J., Kelly, R. I., Brunton, F.R., van Haaften, S. 2006. Bedrock topography and overburden thickness mapping, southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 207.
4. Town of Barrie online-services
5. Ecolog ERIS - review of 50 provincial, federal and private environmental databases for the Phase One Property and Study Area (250 metre radius).
6. Historical Maps (aerial photos from 1954 to 2019, Ontario Base Map, 1982).
7. Ontario Geological Survey 2010. *Surficial Geology of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release.
8. Ontario Geological Survey 2006. *Bedrock Topography and Overburden Thickness Mapping, Southern Ontario*. Ontario Geological Survey, Miscellaneous Release
9. Ontario Ministry of the Environment, Conservation and Parks June 1991. *Waste Disposal Site Inventory*. ISBN 0-7729-8409-3.
10. Ontario Ministry of the Environment, Conservation and Parks April 1995. *Ontario Inventory of PCB Storage Sites*. ISBN 1201-2904.



10 LIMITATIONS AND USE OF THE REPORT

This report was prepared for the exclusive use of Crystal Homes and is intended to provide an assessment of the environmental condition on the Phase One Property located at 979 and 989 Mapleview Dr. East, Barrie, Ontario.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Terraprobe accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report, including consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

The assessment should not be considered a comprehensive audit that eliminates all risks of encountering environmental problems. The information presented in this report is based on information collected during the completion of the Phase One ESA by Terraprobe. It is based on the conditions on the Phase One Property at the time of the site inspection supplemented by a review of historical information to assess the environmental conditions on the Phase One Property, as reported herein.

Sampling and analysis of soil, ground water or any other material was not carried out as part of this assessment. Consequently, the presence and/or extent of any adverse environmental impact cannot be verified. The potential for environmental liability and/or environmental impact is an opinion that has been arrived at within the scope of this assessment.

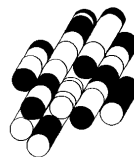
In assessing the environmental conditions/history of the Phase One Property, Terraprobe has relied in good faith on information provided by others, as noted in this report, and has assumed that the information provided by those individuals is factual and accurate. Terraprobe accepts no responsibility for any deficiency, misstatement or inaccuracy in this report resulting from the information provided by those individuals.

There is no warranty expressed or implied by this report regarding the environmental status of the Phase One Property. Professional judgment was exercised in gathering and analysing information collected by our staff, as well as that submitted by others. The conclusions presented are the product of professional care and competence, and cannot be construed as an absolute guarantee.

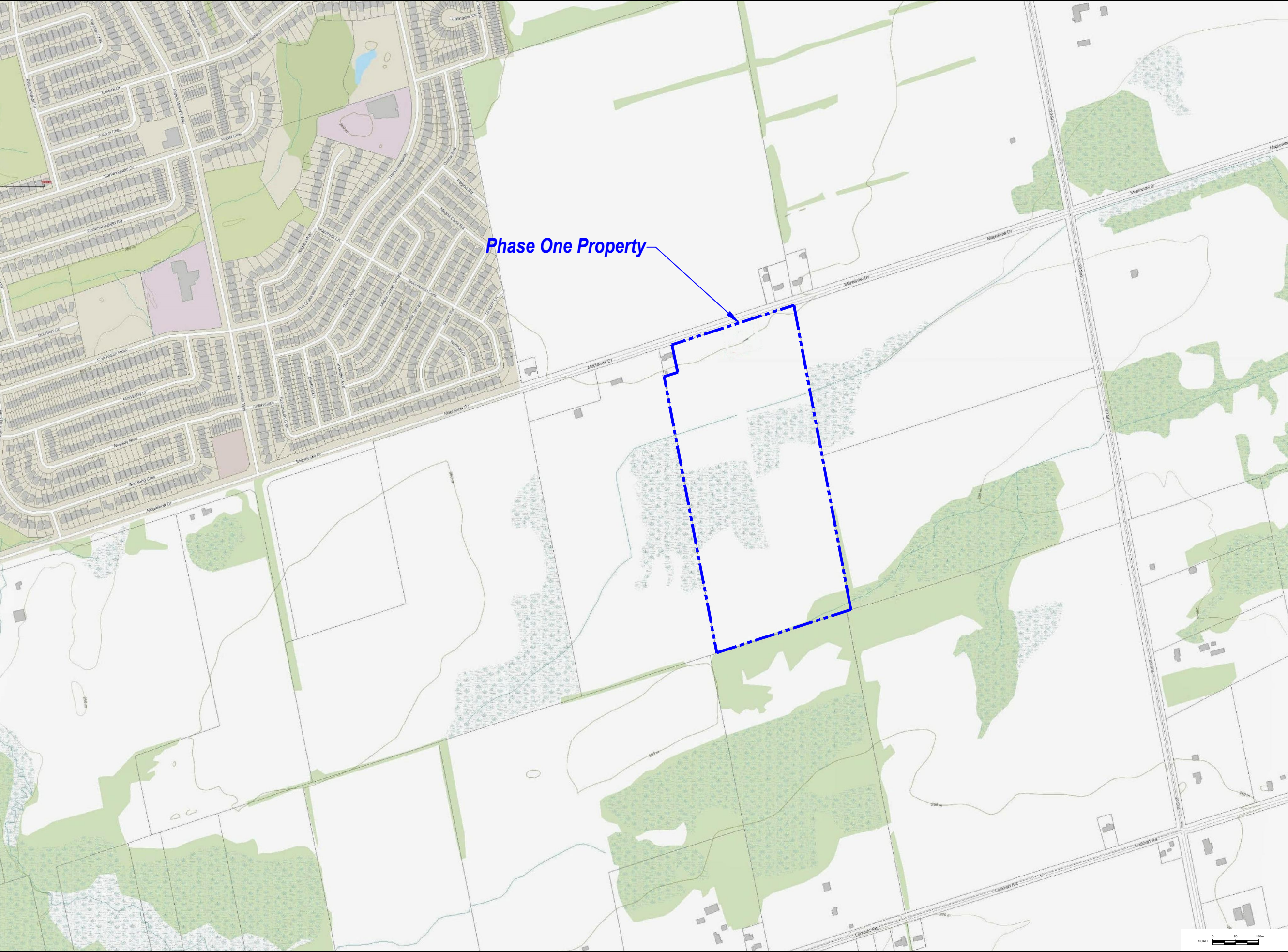
In the event that during future work new information regarding the environmental condition of the Phase One Property is encountered, or in the event that the outstanding responses from the regulatory agencies indicate outstanding issues on file with respect to the Phase One Property, Terraprobe should be notified in order that we may re-evaluate the findings of this assessment and provide amendments, as required.



FIGURES



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Reference:
County of Simcoe
Interactive Maps

Notes:

Legend:

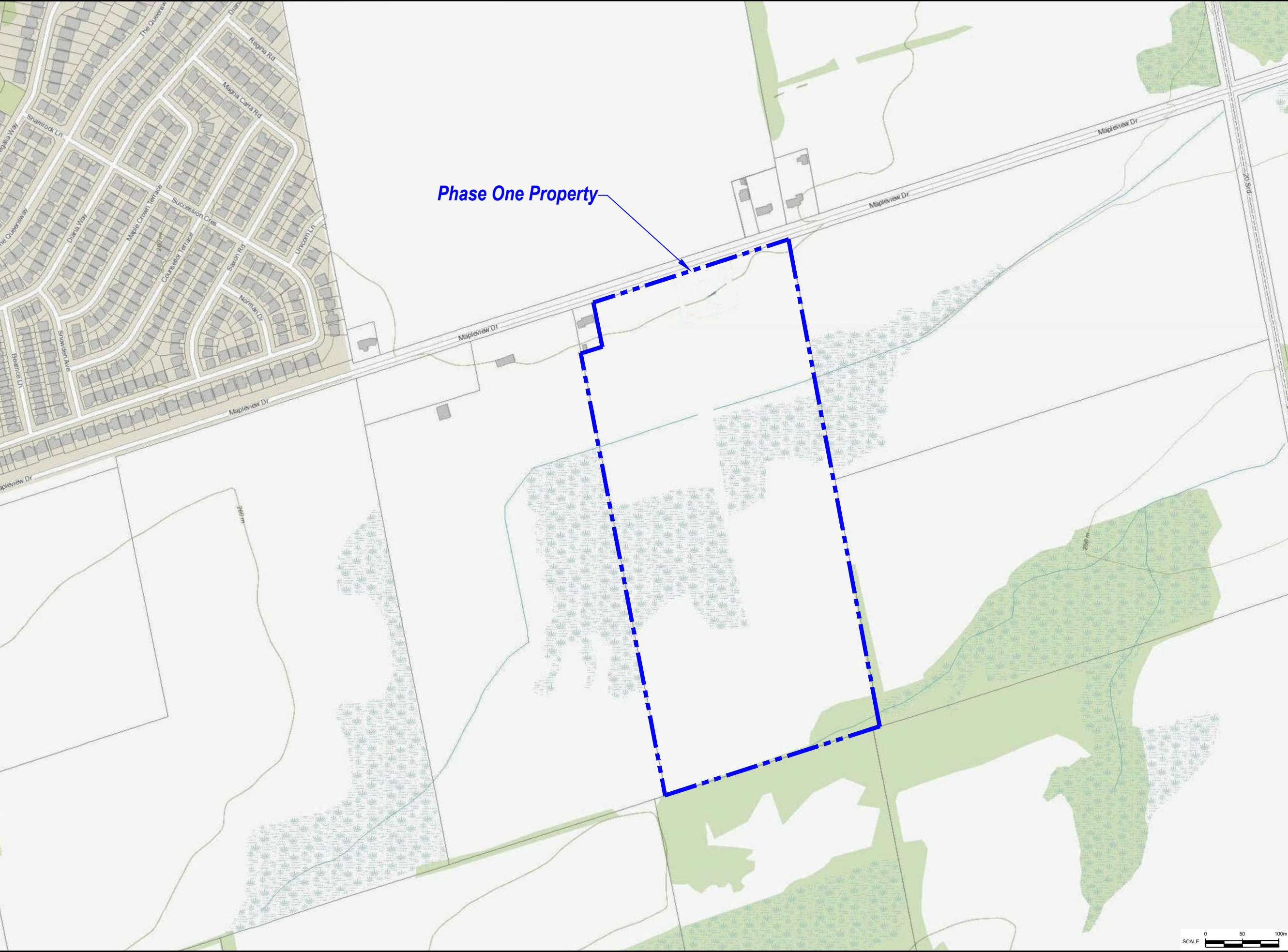
Phase One Property Boundary

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:
PHASE ONE PROPERTY LOCATION

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 1
Date: May 2020	



Phase One Property



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Notes:

Legend:

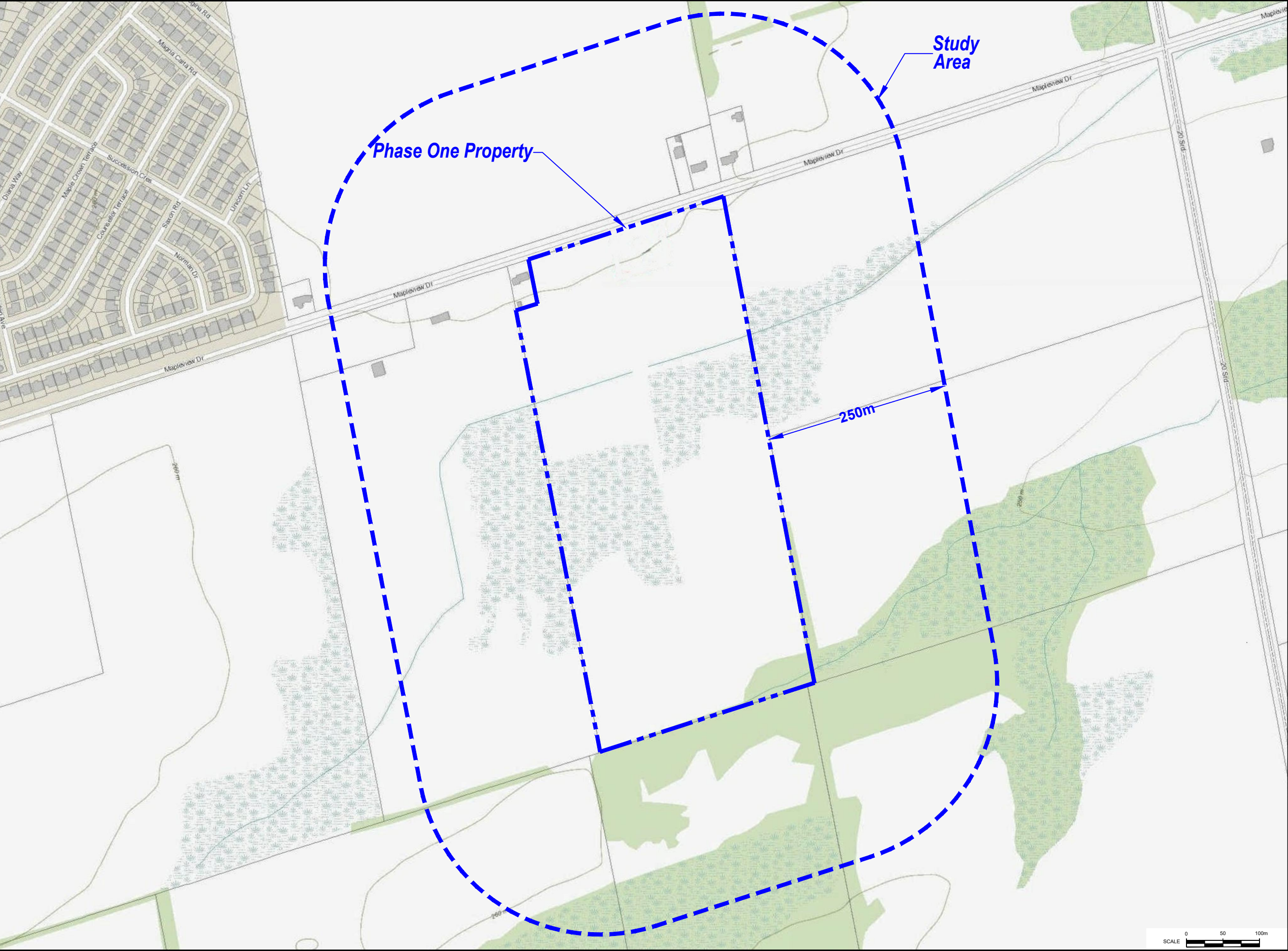
Phase One Property Boundary

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:
PHASE ONE PROPERTY

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	
Reviewed By: BW	Scale: As Shown
Date: May 2020	Figure No.: 2





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Notes:

Legend:

Phase One Property Boundary

Phase One Study Area, 250m

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Mapleview Dr East, Barrie, Ontario

Figure Title:
PHASE ONE STUDY AREA

Designed By:
AB

Drawn By:
AA

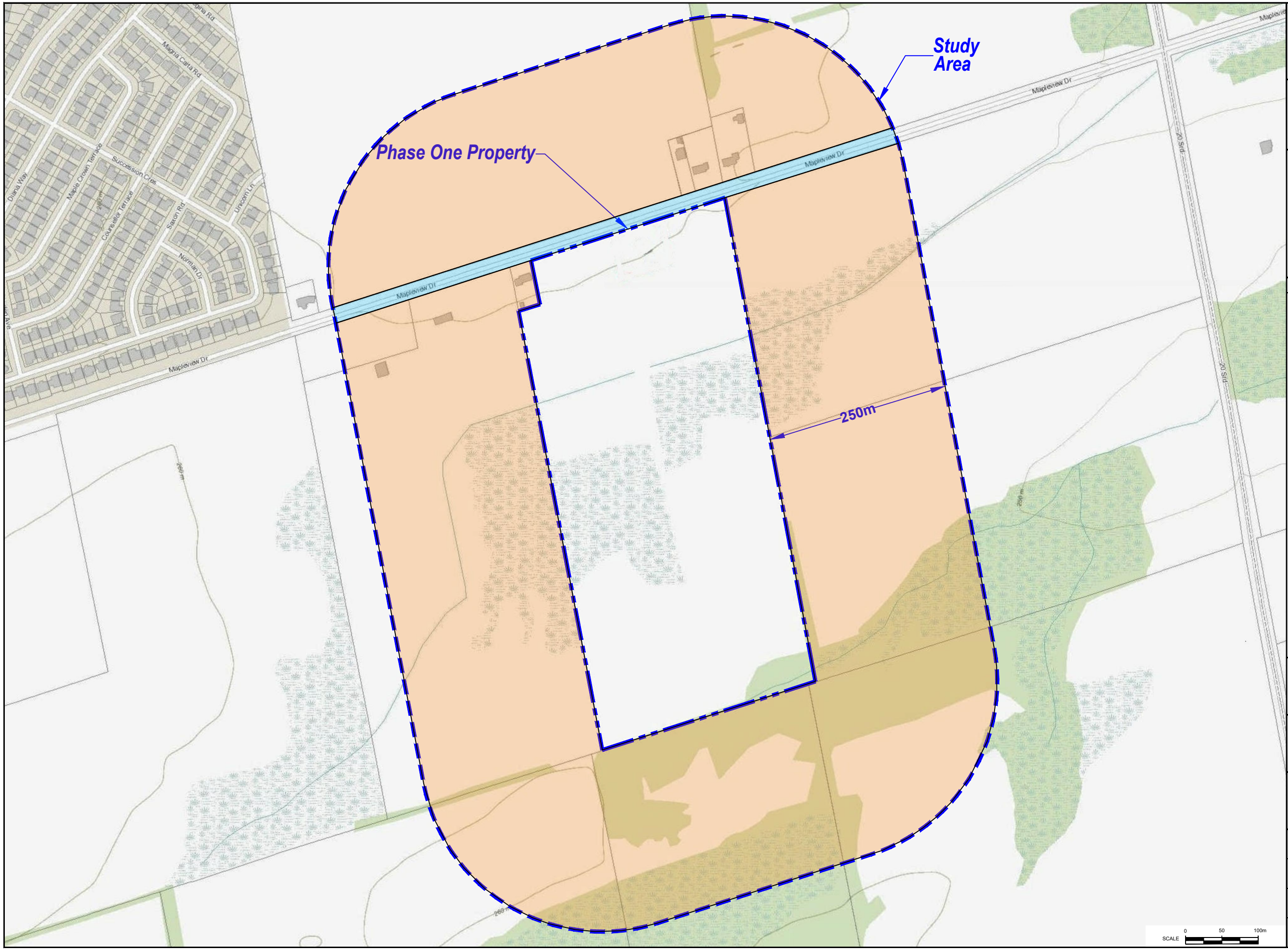
Reviewed By:
BW

Date:
May 2020

File No.:
3-20-0023-41

Scale:
As Shown

Figure No.:
3





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Notes:

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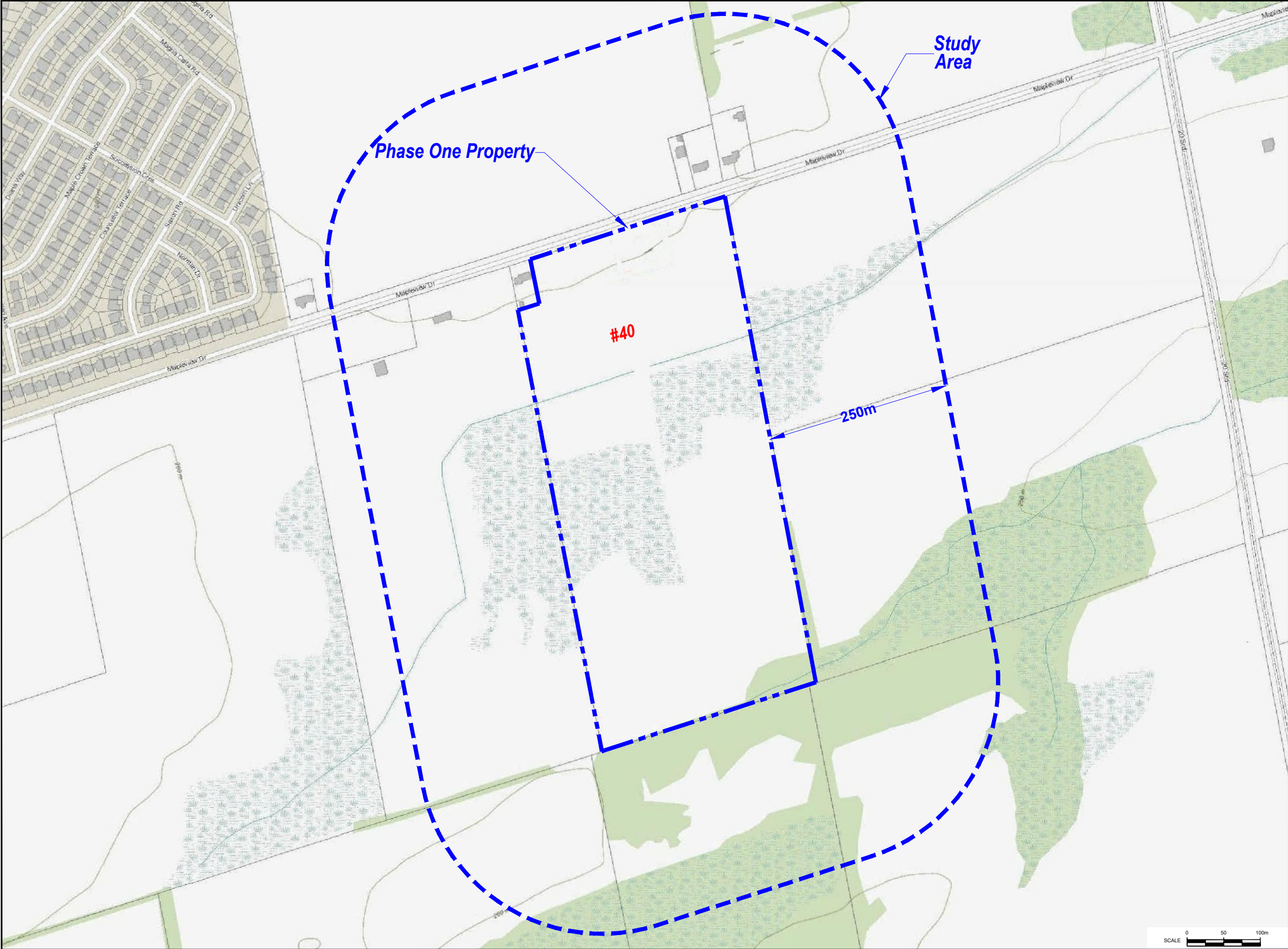
- Phase One Property Boundary
- Phase One Study Area, 250m
- Community Property Use (Roads)
- Undeveloped Land

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Mapleview Dr East, Barrie, Ontario

Figure Title:
ADJACENT PROPERTY USES

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Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 4
Date: May 2020	





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Reference:

County of Simcoe
Interactive Maps

Notes:

PCA - Potentially Contaminating Activity
Red PCA Causing APEC
Green PCA Not Causing APEC

Legend:

Phase One Property Boundary

Phase One Study Area, 250m

#40

Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

Project Title:

Phase One Environmental Site Assessment

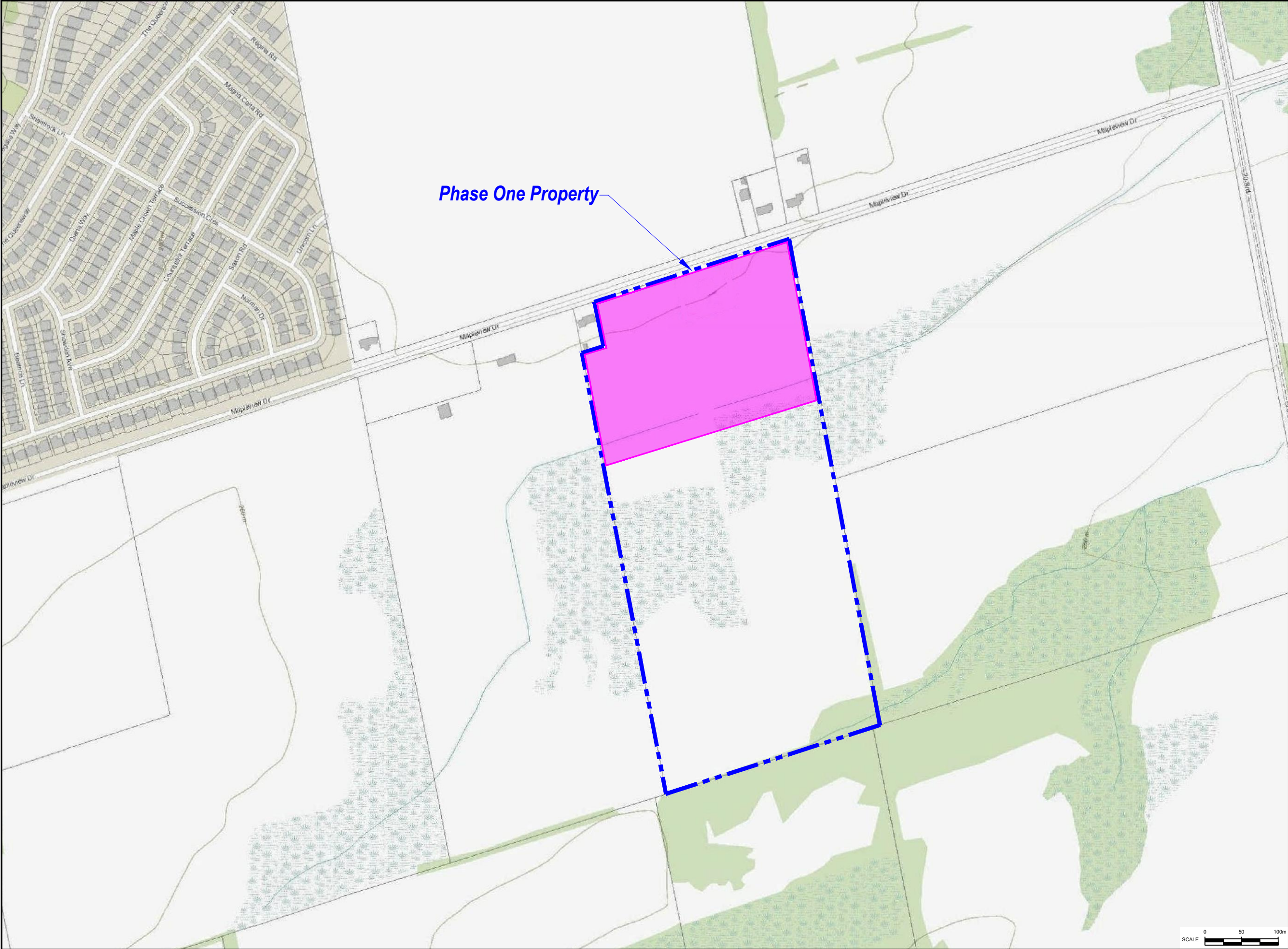
Site Location:

979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:

PCA LOCATIONS

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 5
Date: May 2020	





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Notes:

APEC - Area of Potential Environmental Concern

Legend:

 Phase One Property Boundary

 APEC 1

Project Title:

Phase One Environmental Site Assessment

Site Location:

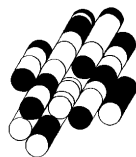
979 & 989 Mapleview Dr East, Barrie, Ontario

Figure Title:

APEC LOCATIONS

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 6
Date: May 2020	

APPENDIX A



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TABLE OF CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

(Refer to clause 16(2)(B), Schedule D, O. Reg. 153/04)

979 Mapleview Dr E, Barrie

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1821	Crown	Vacant land	Vacant land	
1862	Andrew McNash			
1871	Thomas Fagan	agricultural	agricultural	
1871	Andrew McNash	agricultural	agricultural	
1877	Joseph Montgomery	agricultural	agricultural	
1896	Samuel Cullen	agricultural	agricultural	
1905	Alexander McDonald	agricultural	agricultural	
1918	Cyril McDonald	agricultural	agricultural	
1949	Ernest Carr	agricultural	agricultural	
1950	Enoch Rear	agricultural	agricultural	
1950	David Davies	agricultural	agricultural	
1951	Russel McArthur	agricultural	agricultural	
1956	John Laird	agricultural	agricultural	Some farm related buildings such as a farmhouse and barn are visible in the aerial photo
1964	George Jullian	agricultural	agricultural	
1982	Bank of Montreal	agricultural	agricultural	
1984	Linda Warnica	agricultural	agricultural	
2007	Finger Lake Estates	agricultural	agricultural	buildings appear to be removed

TABLE OF CURRENT AND PAST USES OF THE PHASE ONE PROPERTY

(Refer to clause 16(2)(B), Schedule D, O. Reg. 153/04)

989 Mapleview Dr E., Barrie

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1950	Ernest Carr	agricultural	Vacant land	
1950	Enoch Rear	agricultural	agricultural	
1950	David Davies	agricultural	agricultural	
1951	Russel McArthur	agricultural	agricultural	
1956	John Laird	agricultural	agricultural	Some farm related buildings such as a farmhouse and barn are visible in the aerial photo
1964	George Jullian	agricultural	agricultural	
1974	Mary Jullian	agricultural	agricultural	
1975	George and Mary Jullian	agricultural	agricultural	
1978	John Graham	agricultural	agricultural	
1982	Bank of Montreal	agricultural	agricultural	
1984	Walter Warnica	agricultural	agricultural	
2007	Finger Lake Estates	agricultural	agricultural	buildings appear to be removed

Notes:

SI is satellite imagery

AP is aerial photograph

CD is city directory

FIP is fire insurance plan

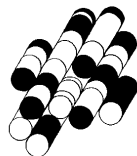
HM is Historic Map

OBM is Ontario Base Map

For each owner, specify one of the following types of Property Use (as defined in O.Reg. 153/04) that applies:

Agriculture or Other, Commercial Community, Industrial, Parkland, Residential

APPENDIX B



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PHASE ONE CONCEPTUAL SITE MODEL

979 and 989 MAPLEVIEW DRIVE EAST, BARRIE, ONTARIO

Phase One CSM		Information Pertaining to Property
<i>Figures of the Phase One Study Area are provided that:</i>		
i.	Show any existing buildings and structures	There are no buildings and structures on the property
ii.	Identify and locate water bodies located in whole or in part on the Phase One Study Area	The closest water body to the Phase One Property is Kempenfelt Bay which is approximately 2.5 km to the north
iii.	Identify and locate any Areas of Natural Significance located in whole or in part on the Phase One Study Area	Terraprobe reviewed the Ontario Ministry of Natural Resources and Forestry NHIC database for natural area listings. No Areas of Natural Significance were located in the Phase One Study Area
iv.	Locate any drinking water wells at the Phase One Property	No drinking water wells were identified on the Property during the site inspection. No records of wells on the property were found in the MECP Water Well information system (WWIS).
v.	Show roads, including names, within the Phase One Study Area	The Property is located south of Maplevue Dr East. Other roads and properties within the study area are presented on Figure 3
vi.	Show use of properties adjacent to the Phase One Property	The Land Uses of the adjacent properties are shown on Figure 4
vii.	Identify and locate area where any potentially contaminating activity has occurred, and show tanks in such areas	Potentially Contaminating Activities (PCAs) located on the Property and within the Study Area are shown on Figure 5
viii.	Identify and located any area of potential environmental concern	One (1) Area of Potential Environmental Concern (APECs) were identified on the Property and are shown on Figure 6
<i>The following is a description and assessment of:</i>		
i.	Any areas where potentially contaminating activity on or potentially affecting the Phase One Property has occurred	One (1) potentially contaminating activity (PCA) was identified and one (1) Area of Potential Environmental Concern (APEC) was identified. The PCA is identified on Figure 5 and the APEC is identified on Figure 6.
ii.	Any contaminants of potential concern	The Contaminants of Potential Concern (CoPCs) that were identified are pesticides and herbicides
iii.	The potential for underground utilities, if any present, to affect contaminant distribution and transport	There are no underground utilities on the Property. There is not the potential for underground utilities to affect the horizontal distribution or transport of contaminants.
iv.	Available regional or site specific geological and hydrogeological information	Topography: Based on topographic information from the 1982 Ontario Base Map, the Property ground surface elevation is approximately 255 m above mean sea level. Hydrogeology: The nearest water body is Kempenfelt Bay which is approximately 2.5 km north. Geology (overburden): The overburden consists of sandy silt to silt matrix, moderate to high in matrix carbonate content, clast content moderate to high

	Geology (bedrock): The bedrock on the site consists of Simcoe Group (trenton - black river) which consists of limestone and is known as the Lindsay formation. Geology (depth to bedrock): Based upon historic borehole information from the MNR and Water Well Records in the vicinity from the MECP, the depth to bedrock in the area of the Property is beyond 45 m.
v.	How any uncertainty or absence of information obtained in each of the components of the Phase One ESA could affect the validity of the model No uncertainty was encountered while conducting the Phase One ESA that could affect the validity of the model

Figures:

Figure 1 – Phase One Property Location

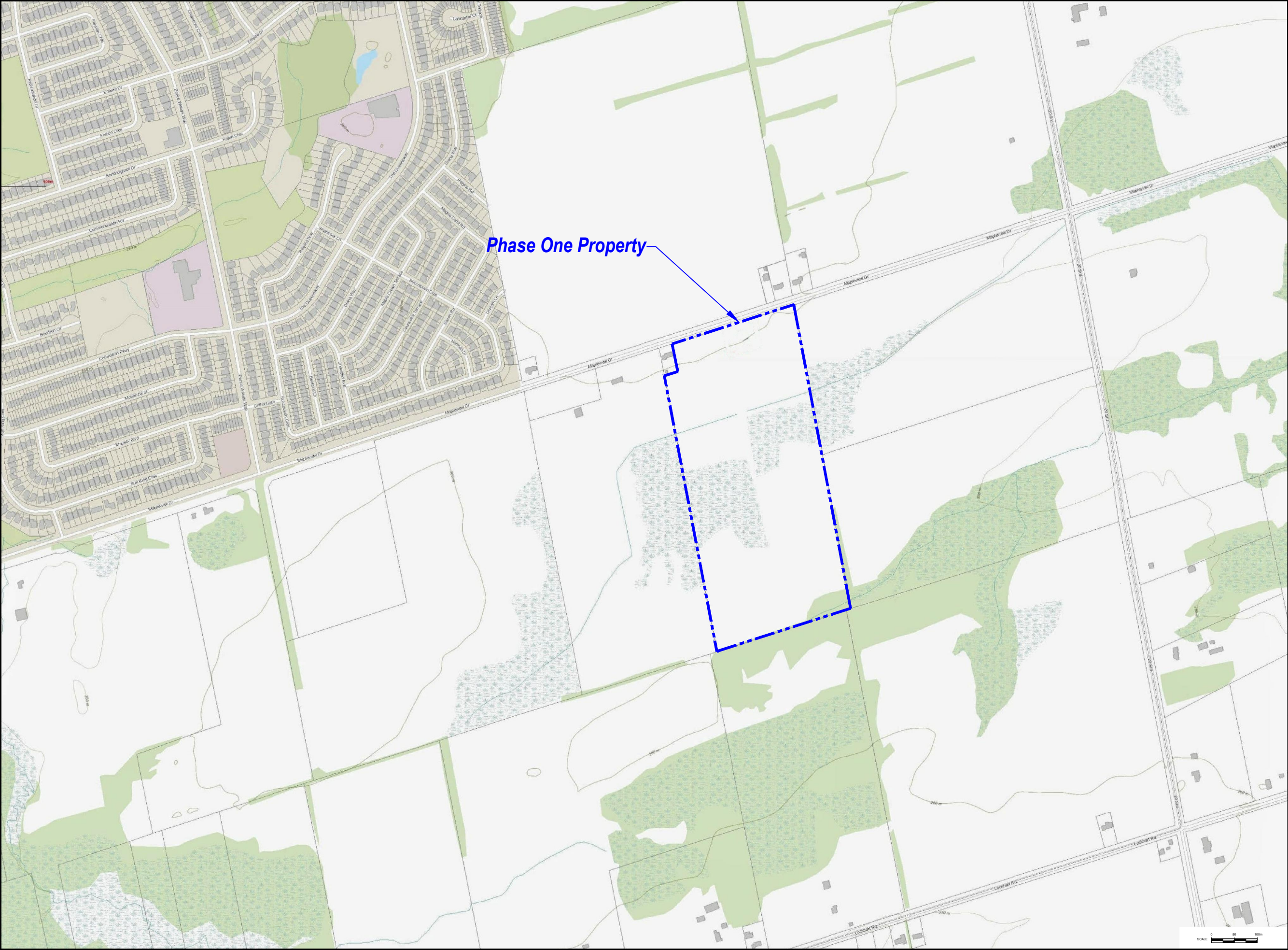
Figure 2 – Phase One Property

Figure 3 – Phase One Study Area

Figure 4 – Adjacent Property Land Uses

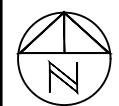
Figure 5 – PCA Locations

Figure 6 – APEC Locations





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Reference:
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Notes:

Legend:

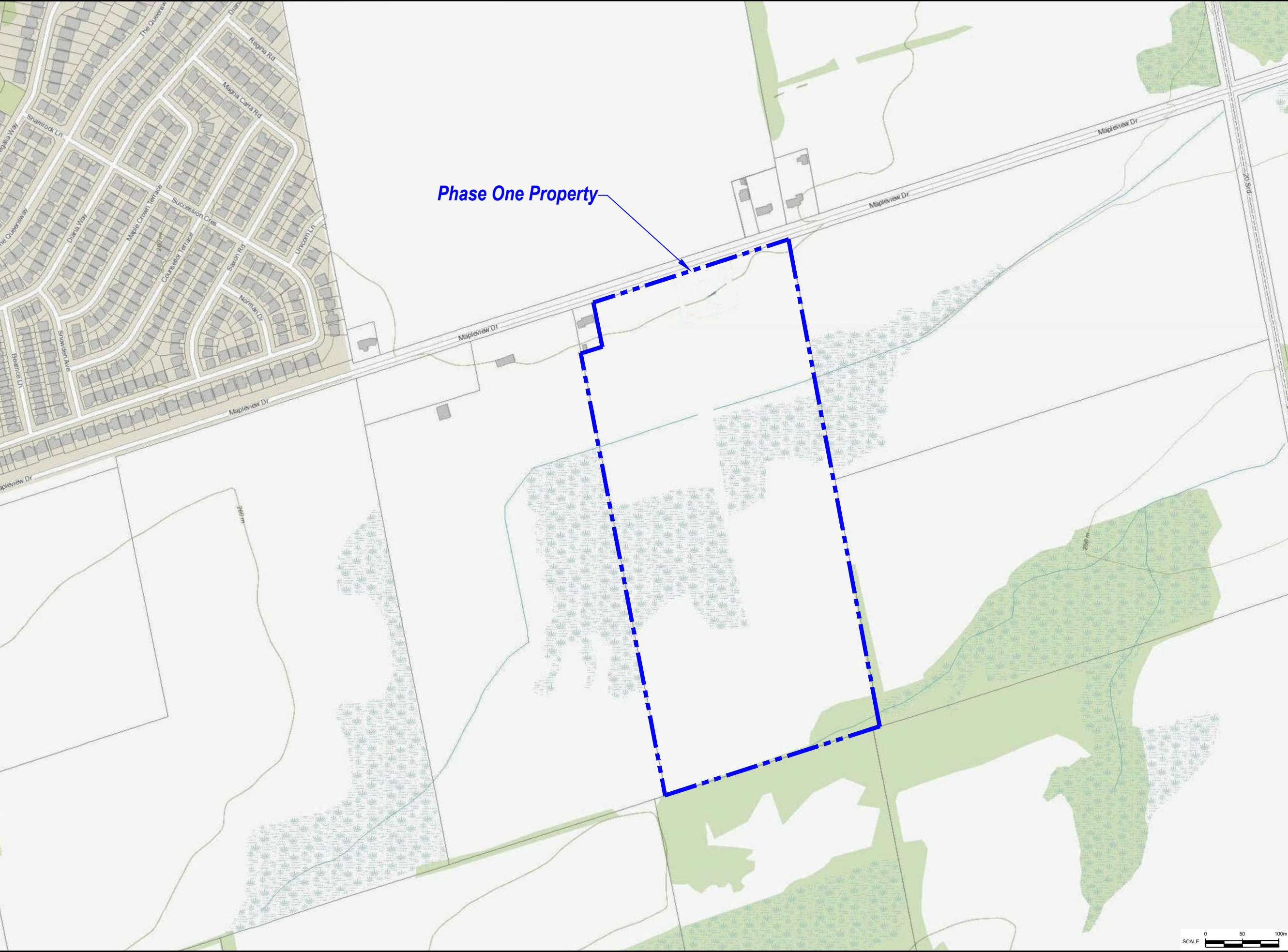
Phase One Property Boundary

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:
PHASE ONE PROPERTY LOCATION

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 1
Date: May 2020	





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Reference:
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Notes:

Legend:



Phase One Property Boundary

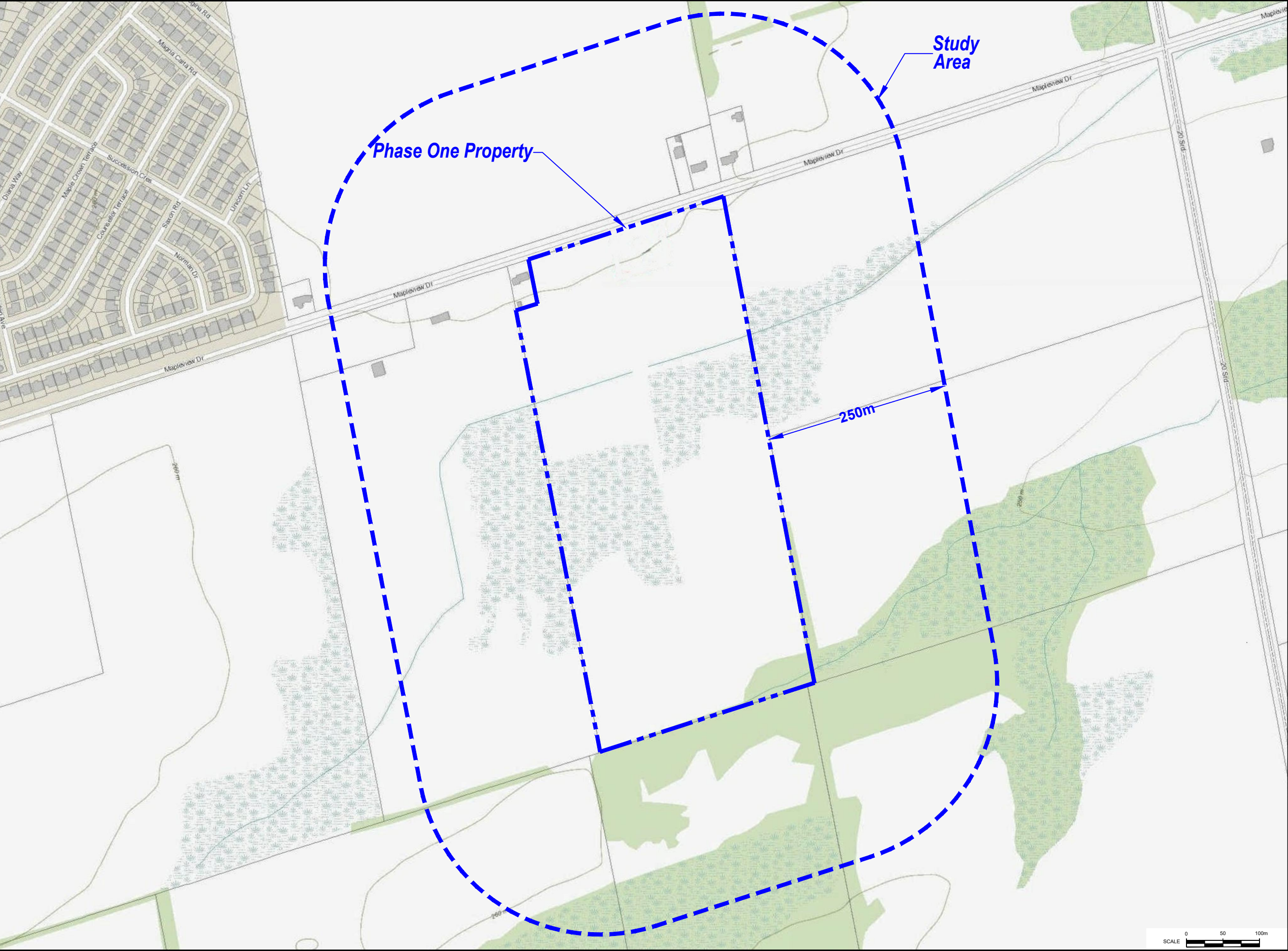
Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Mapleview Dr East, Barrie, Ontario

Figure Title:
PHASE ONE PROPERTY

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	
Reviewed By: BW	Scale: As Shown
Date: May 2020	Figure No.: 2







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Reference:
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Notes:

Legend:

Phase One Property Boundary

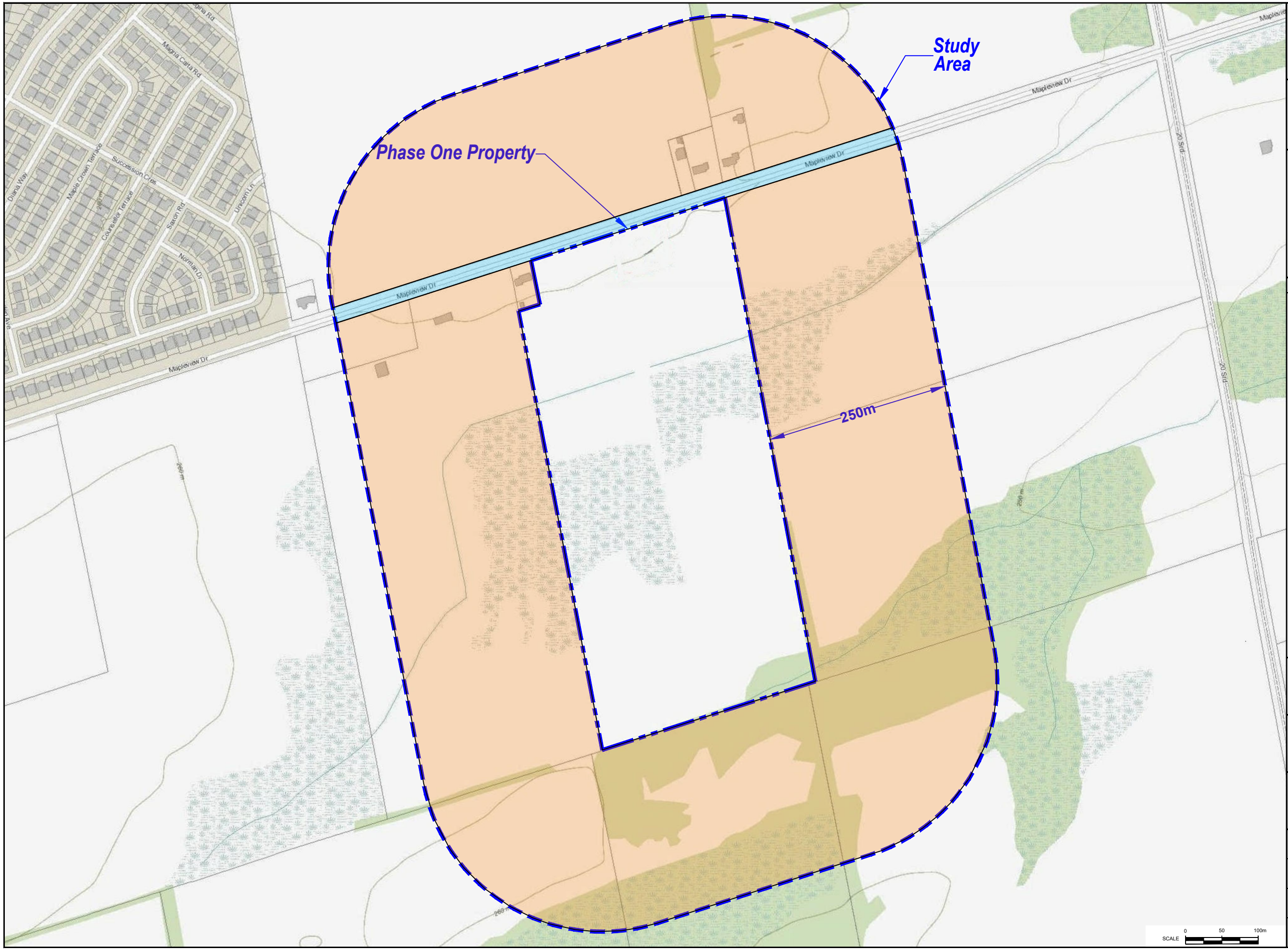
Phase One Study Area, 250m

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:
PHASE ONE STUDY AREA

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 3
Date: May 2020	





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Reference:
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Notes:

Legend:

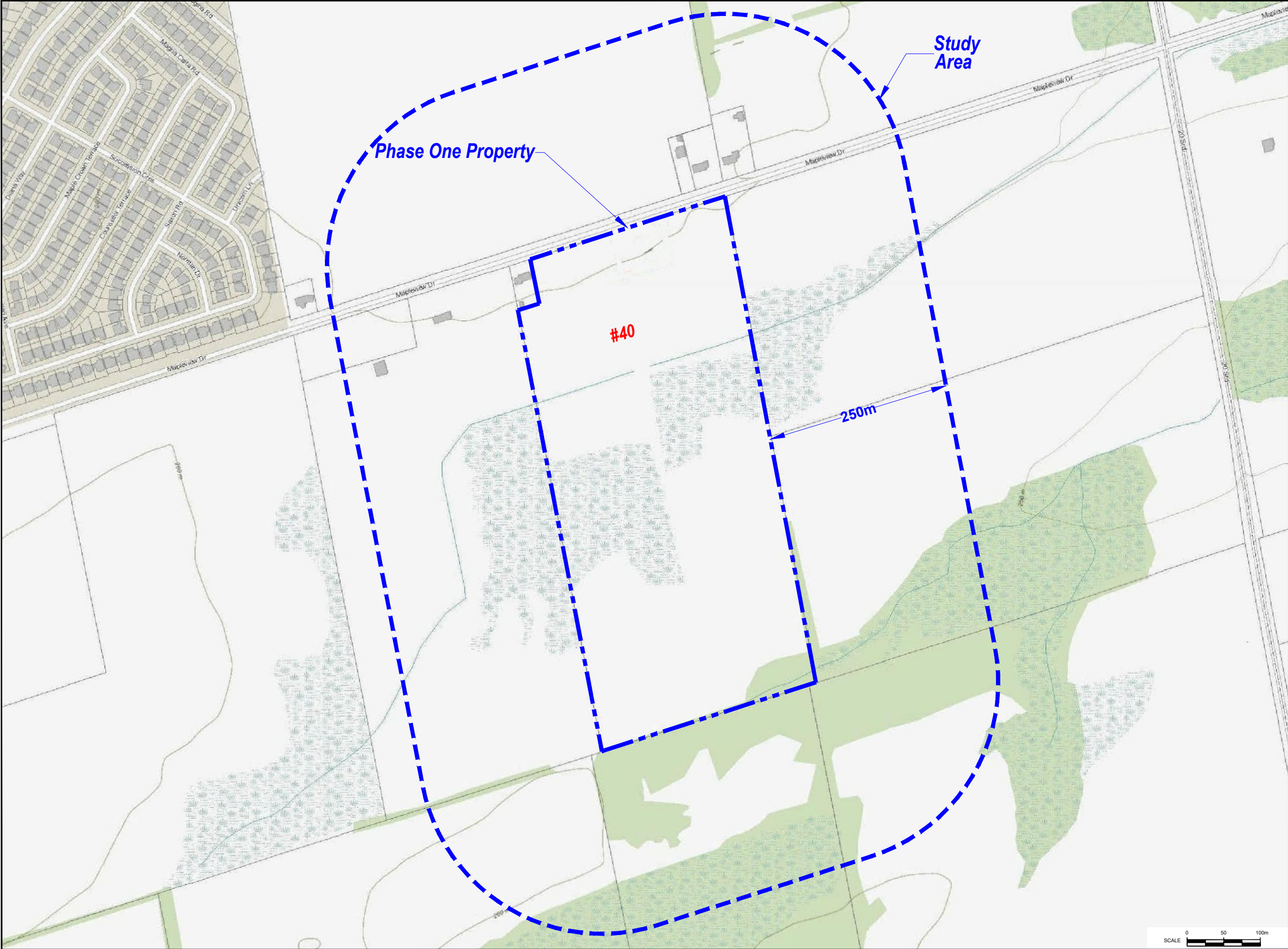
- Phase One Property Boundary
- Phase One Study Area, 250m
- Community Property Use (Roads)
- Undeveloped Land

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Mapleview Dr East, Barrie, Ontario

Figure Title:
ADJACENT PROPERTY USES

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 4
Date: May 2020	





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Reference:

County of Simcoe
Interactive Maps

Notes:

PCA - Potentially Contaminating Activity
Red PCA Causing APEC
Green PCA Not Causing APEC

Legend:

- - - Phase One Property Boundary
- - - Phase One Study Area, 250m

#40 Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

Project Title:

Phase One Environmental Site Assessment

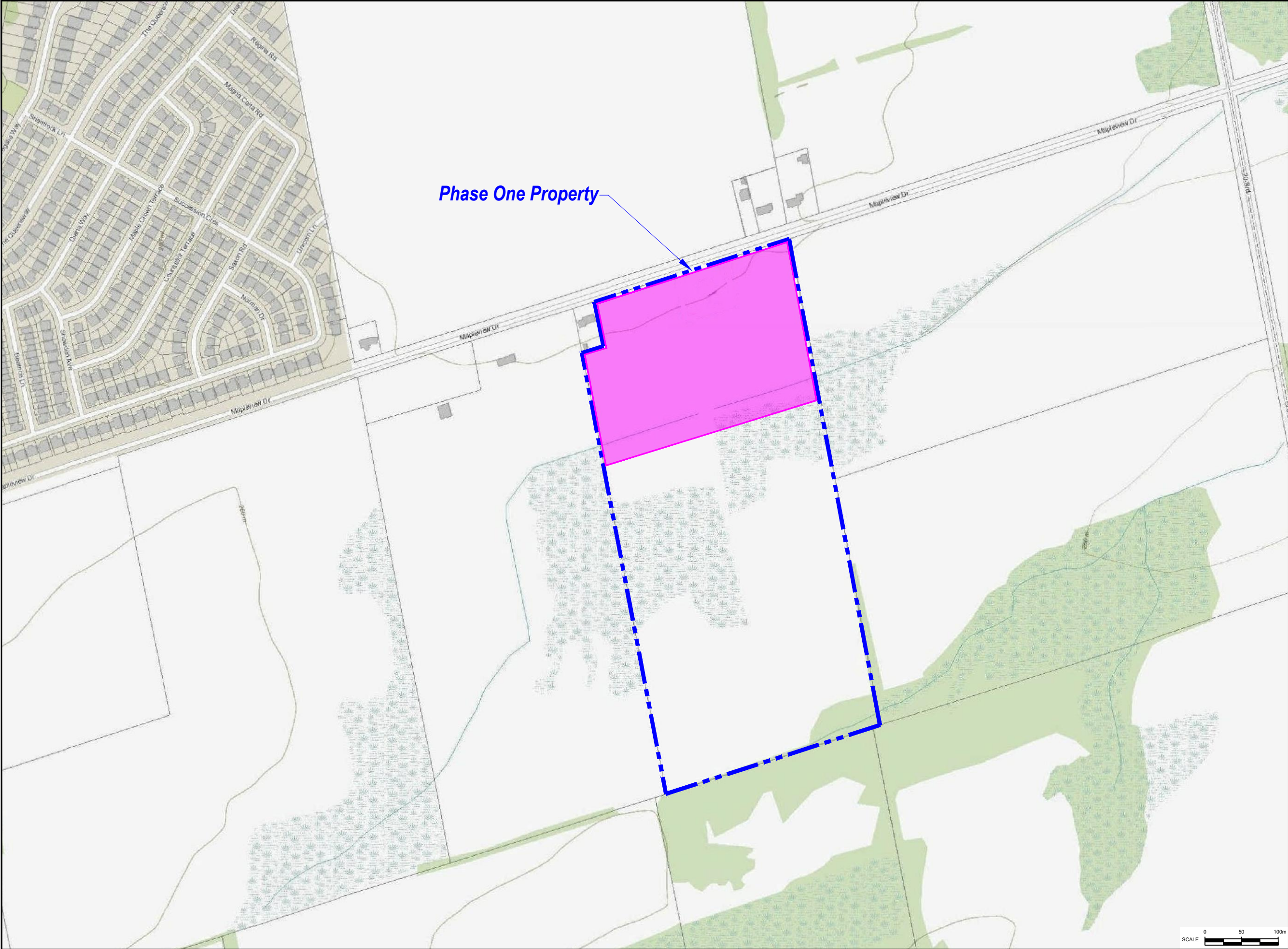
Site Location:

979 & 989 Maplevue Dr East, Barrie, Ontario

Figure Title:

PCA LOCATIONS

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 5
Date: May 2020	





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Reference:
County of Simcoe
Interactive Maps

Notes:
APEC - Area of Potential Environmental Concern

Legend:

 Phase One Property Boundary

 APEC 1

Project Title:
Phase One Environmental Site Assessment

Site Location:
979 & 989 Maplevue Dr East, Barrie, Ontario

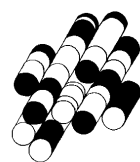
Figure Title:
APEC LOCATIONS

Designed By: AB	File No.: 3-20-0023-41
Drawn By: AA	Scale: As Shown
Reviewed By: BW	Figure No.: 6
Date: May 2020	

050100m

SCALE

APPENDIX C



Terraprobe Inc.



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

1954



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

1989



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

1997



SCALE 0 150 300m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

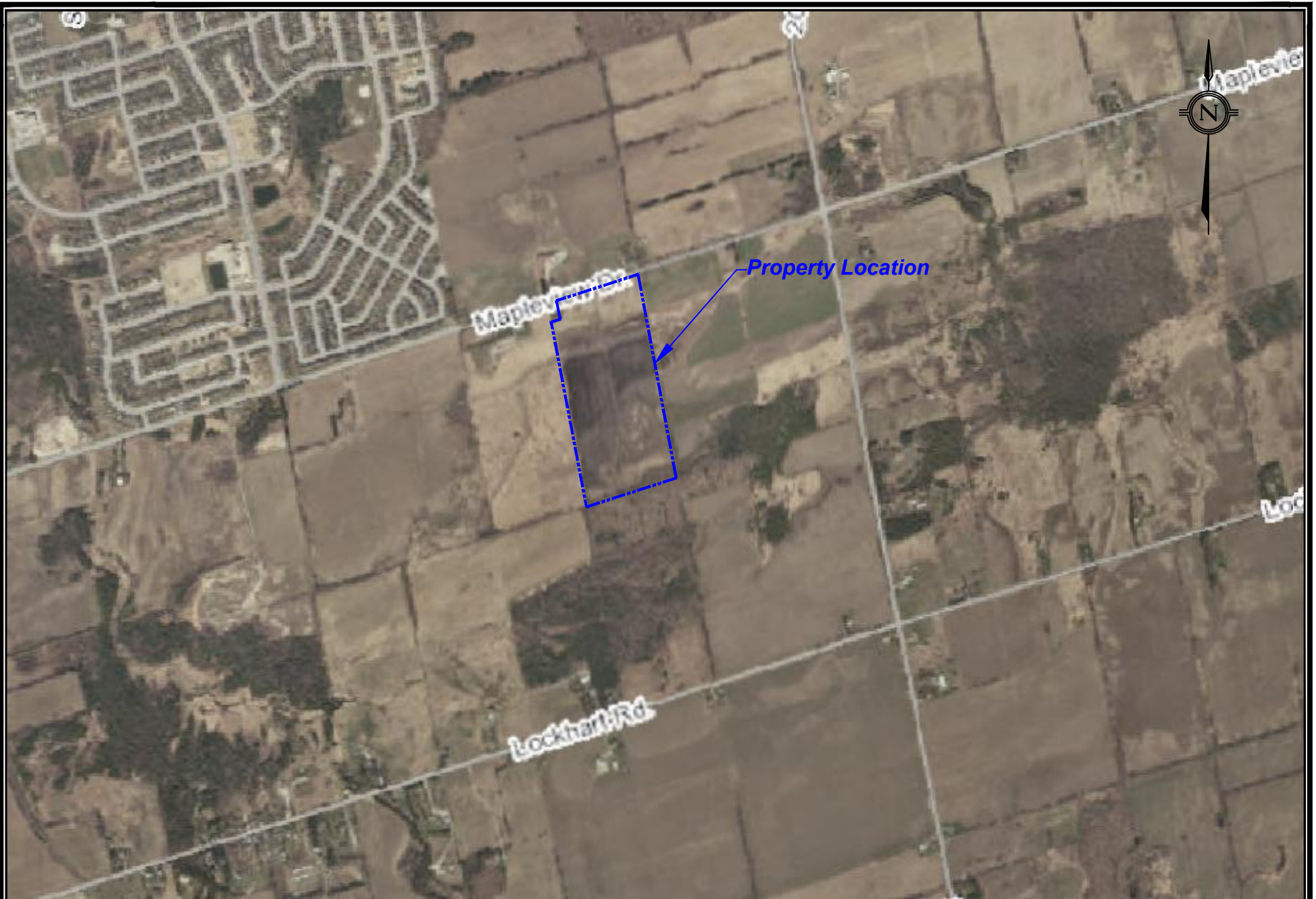
AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

2002



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

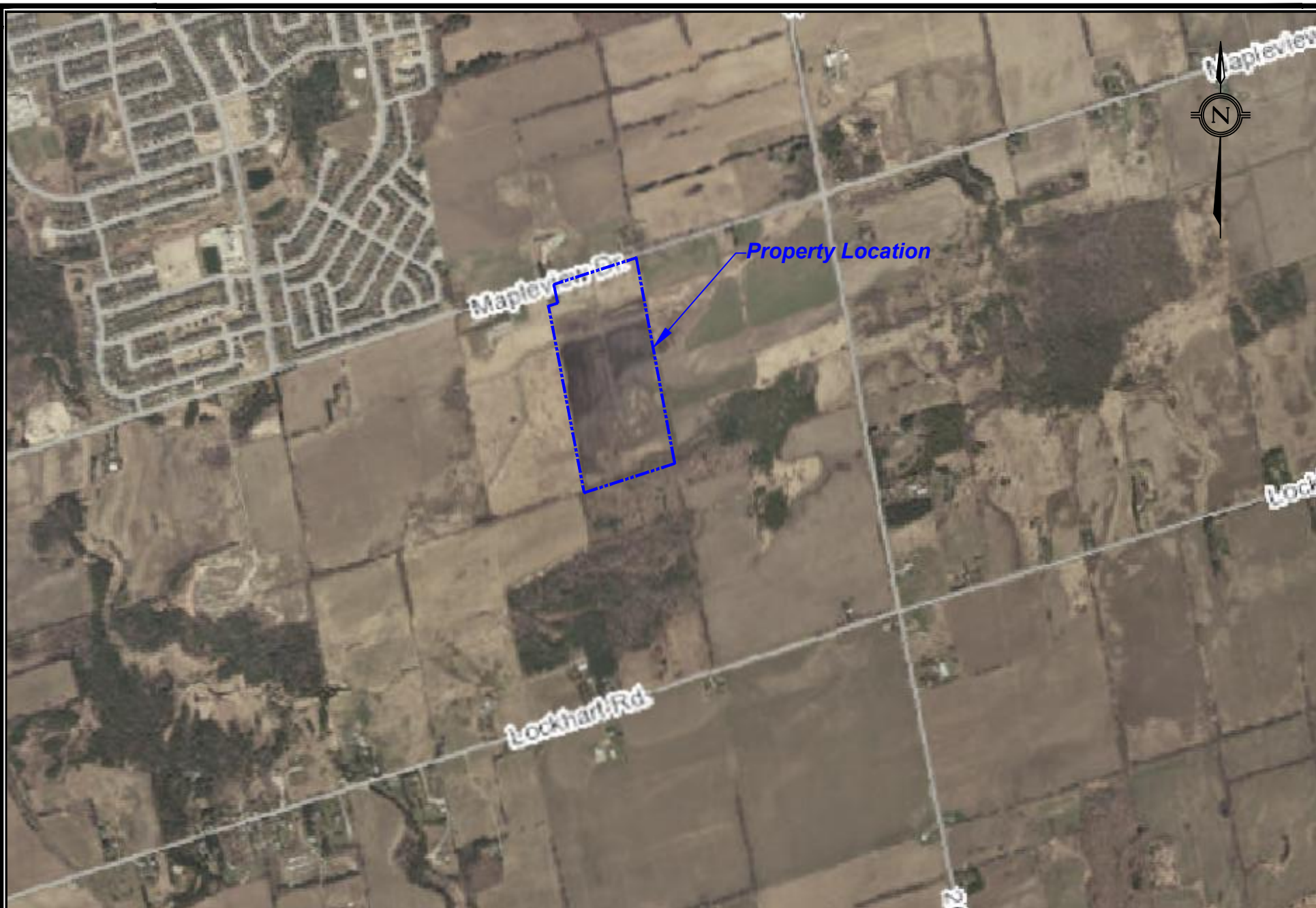
AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

2008



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

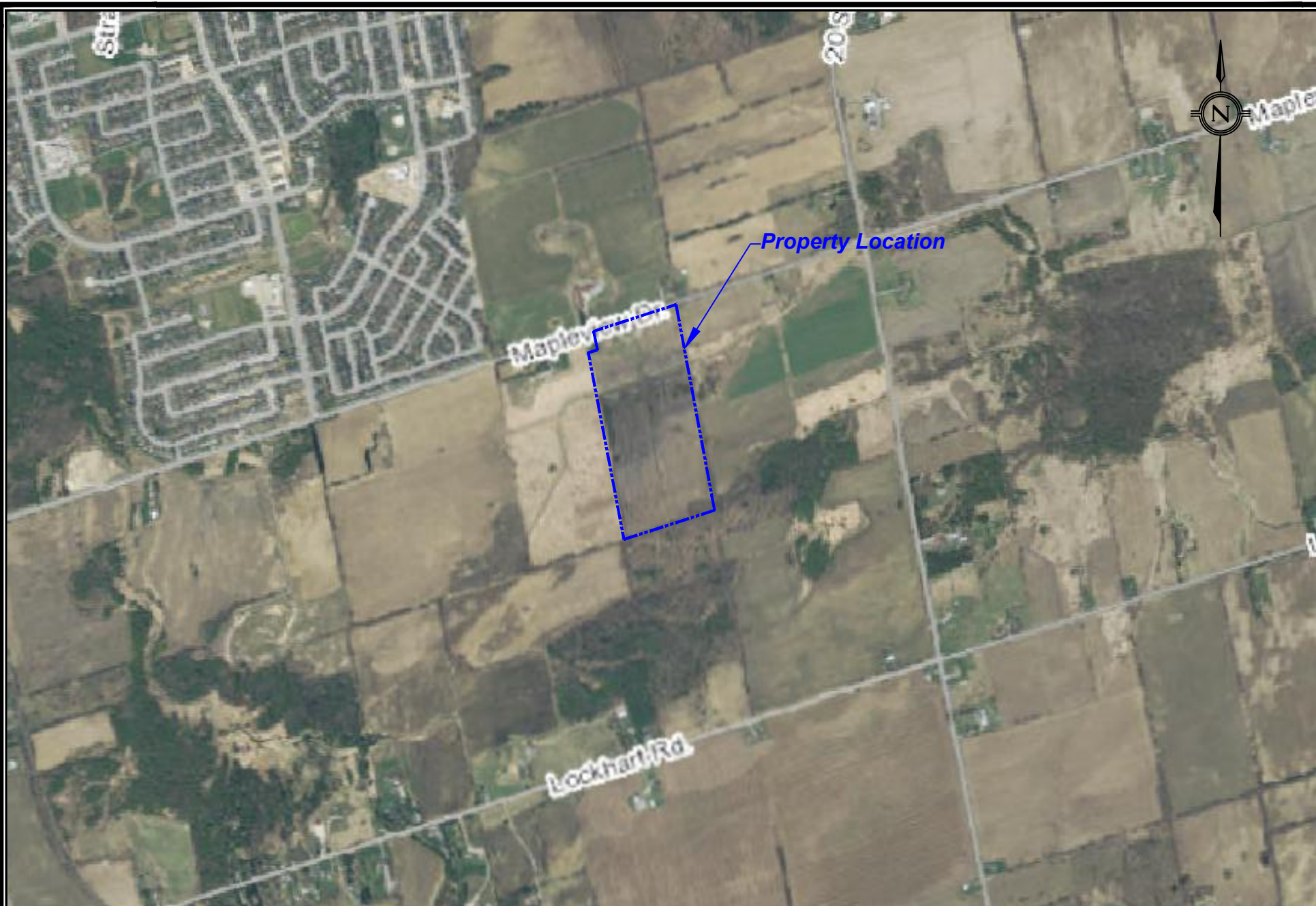
AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

2012



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

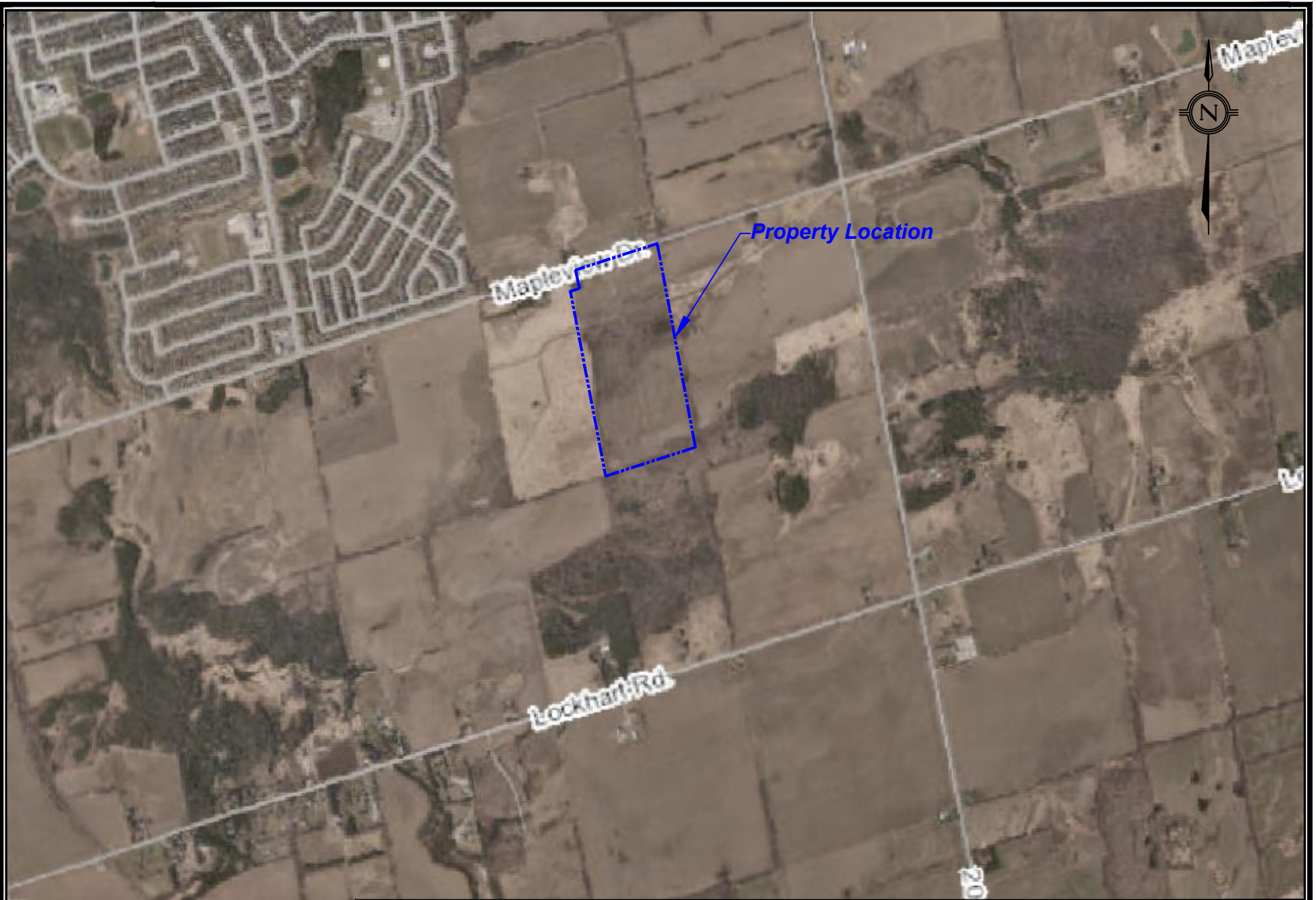
AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

2013



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

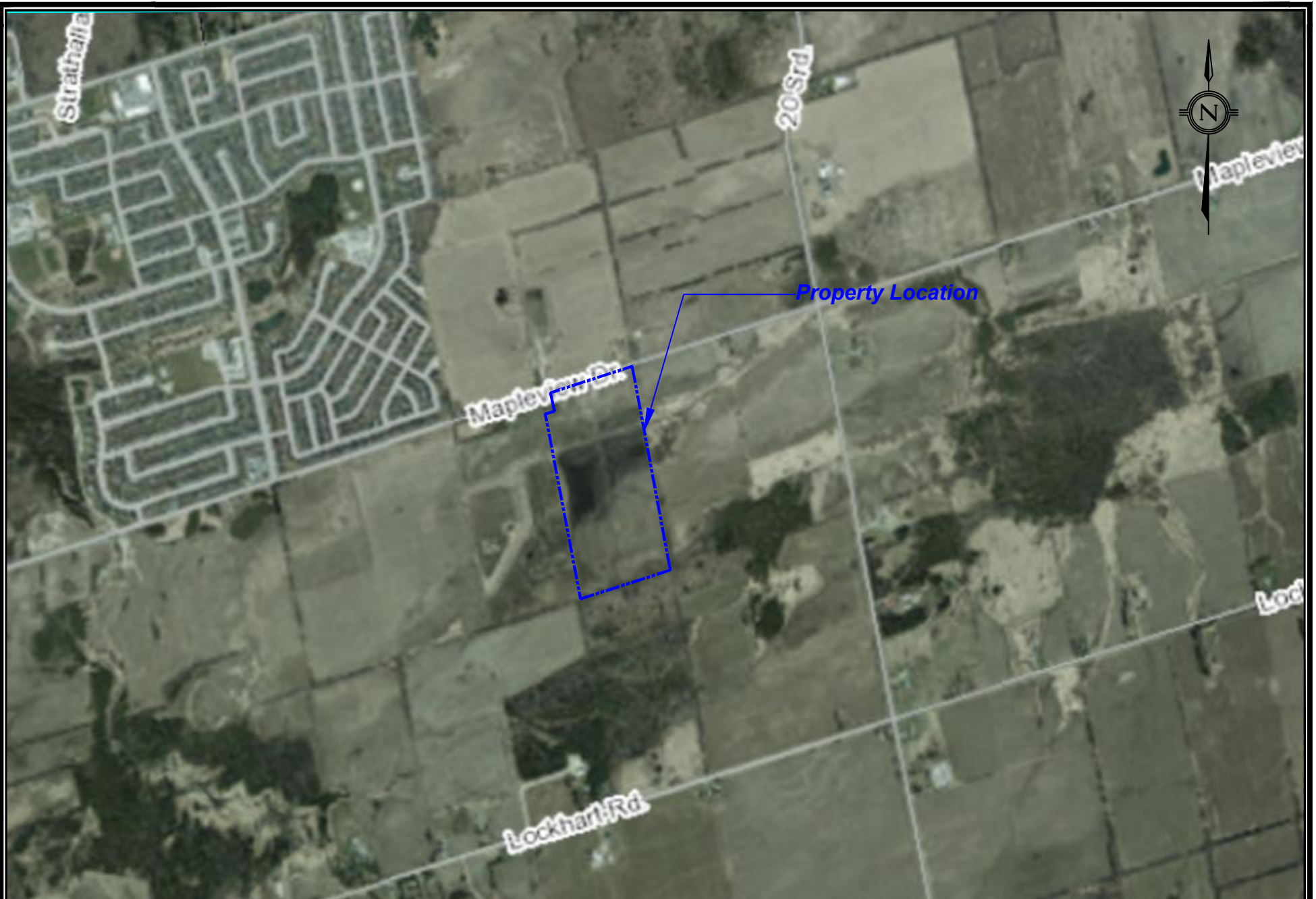
AERIAL PHOTOGRAPH

File No.

3-20-0023-41

YEAR :

2016



SCALE 0 200 400m



Terraprobe

11 Indell Lane, Brampton, Ontario, L6T 3Y3
Tel: (905) 796-2650 Fax: (905) 796-2250

Title:

AERIAL PHOTOGRAPH

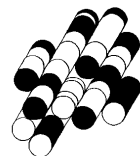
File No.

3-20-0023-41

YEAR :

2018

APPENDIX D



Terraprobe Inc.



Photograph 1

Location: Phase One Property
Viewing: East
Description: View of vacant agricultural land



Photograph 2

Location: Phase One Property
Viewing: south
Description: View of vacant agricultural land



Photograph 3

Location: Phase One Property
Viewing: Southwest
Description: View of vacant agricultural land





Photograph 4

Location: Phase One Property

Viewing: North

Description: View of vacant agricultural land and property north of Maplevue Dr East



Photograph 5

Location: Phase One Property

Viewing: Southwest

Description: View of agricultural land



Photograph 6

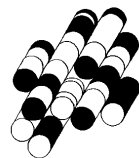
Location: Phase One Property

Viewing: East

Description: View of Agricultural Property



APPENDIX E



Terraprobe Inc.

CHAIN OF TITLE REPORT

Project # 20200427065
Address: 979 Maplevue Drive East, Barrie
Legal Part Lot 19 Con 11 Innisfil
Description: Part 1 Plan 51R35948

PIN: 58092-0080 (LT)

Searched at: Barrie
LRO #: 51

Page 1

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (200 Acres)	16 06 1821	Crown	Hon. George William ALLEN
34543	Deed	17 12 1862	Hon. George William Allen	Andrew McANSH
63360	Deed	05 10 1871	Andrew McAnsh	Thomas FAGAN
63361	Deed	05 10 1871	Thomas Fagan	Andrew McANSH
306	Deed	29 09 1877	Andrew McAnsh	Joseph MONTGOMERY
5769	Deed	06 07 1896	Joseph Montgomery	Samuel CULLEN
7985	Deed	16 09 1905	Samuel Cullen	Alexander McDONALD
11628	Deed	02 12 1918	Alexander McDonald	Cyril McDONALD
30081	Deed	25 03 1949	Cyril McDonald	Ernest CARR

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project # 20200427065
Address: 979 Maplevue Drive East, Barrie
Legal Part Lot 19 Con 11 Innisfil
Description: Part 1 Plan 51R35948

PIN: 58092-0080 (LT)

Searched at: Barrie
LRO #: 51

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
31630	Deed	01 12 1950	Ernest Carr	Enoch REAR
31631	Deed	01 12 1950	Enoch Rear	David DAVIES
31999	Deed	09 05 1951	David Davies	Russel McARTHUR
52716	Deed	03 04 1956	Russel McArthur	John LAIRD
192850	Deed	15 10 1964	John Laird	George J. JULIAN
771820	Mortgage	27 08 1982	George J. Julian	Bank of Montreal (Mortgagee)
RO825786	Deed (Power of Sale)	03 04 1984	Bank of Montreal (George J. Julian defaulted in Mtg 771820)	Linda WARNICA
SC524644	Deed (Present Owner)	01 03 2007	Linda Warnica	Finger Lakes Estates Inc.

LAND
REGISTRY
OFFICE #51

58092-0080 (LT)

PAGE 1 OF 1
PREPARED FOR bertuccil
ON 2020/05/13 AT 09:37:27

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

PROPERTY DESCRIPTION: PT LT 19 CON 11 INNISFIL BEING PT 1 PL 51R35948; INNISFIL

PROPERTY REMARKS: "FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2009/04/03".

ESTATE/QUALIFIER: FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY: RE-ENTRY FROM 58092-0058

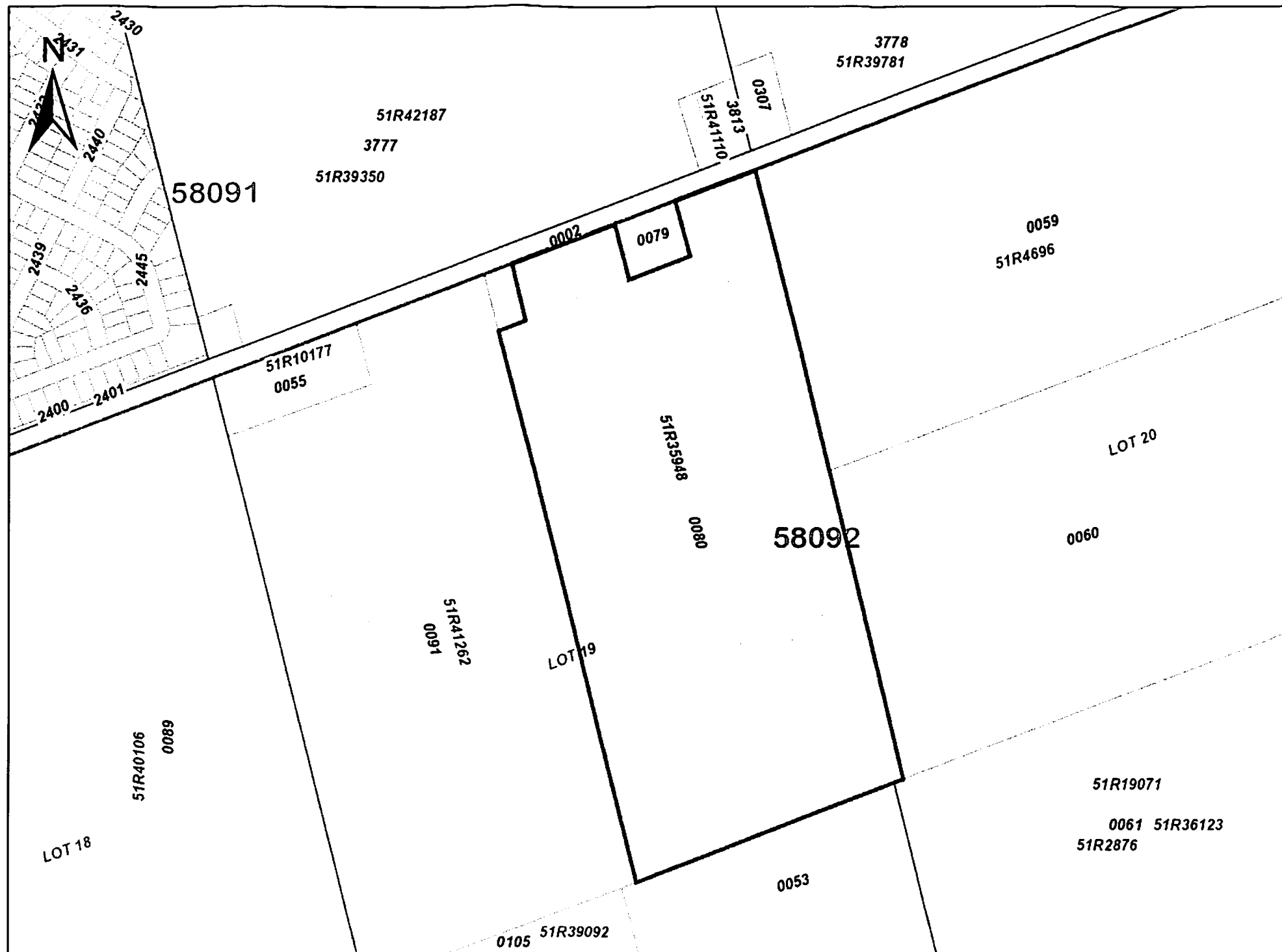
PIN CREATION DATE: 2009/04/03

OWNERS' NAMES: FINGER LAKES ESTATES INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2009/04/03 **						
**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. **						
51R35948	2008/02/27	PLAN REFERENCE				C
SC726536	2009/04/03	APL ABSOLUTE TITLE		FINGER LAKES ESTATES INC.	FINGER LAKES ESTATES INC.	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.



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FOR B

SCALE

0 30 60 90 120 150 meters

PROPERTY INDEX MAP

SIMCOE(No. 51)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED



CHAIN OF TITLE REPORT

Project # 20200427065
Address: 989 Maplevue Drive East, Barrie
Legal Part Lot 19 Con 11 Innisfil
Description: Part 2 Plan 51R35948

PIN: 58092-0079 (LT)

Searched at: Barrie
LRO #: 51

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (200 Acres)	16 06 1821	Crown	Hon. George William ALLEN
34543	Deed	17 12 1862	Hon. George William Allen	Andrew McANSH
63360	Deed	05 10 1871	Andrew McAnsh	Thomas FAGAN
63361	Deed	05 10 1871	Thomas Fagan	Andrew McANSH
306	Deed	29 09 1877	Andrew McAnsh	Joseph MONTGOMERY
5769	Deed	06 07 1896	Joseph Montgomery	Samuel CULLEN
7985	Deed	16 09 1905	Samuel Cullen	Alexander McDONALD
11628	Deed	02 12 1918	Alexander McDonald	Cyril McDONALD
30081	Deed	25 03 1949	Cyril McDonald	Ernest CARR

CHAIN OF TITLE REPORT

Project # 20200427065
Address: 989 Maplevue Drive East, Barrie
Legal Part Lot 19 Con 11 Innisfil
Description: Part 2 Plan 51R35948

PIN: 58092-0079 (LT)

Searched at: Barrie
LRO #: 51

Page 2

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
31630	Deed	01 12 1950	Ernest Carr	Enoch REAR
31631	Deed	01 12 1950	Enoch Rear	David DAVIES
31999	Deed	09 05 1951	David Davies	Russel McARTHUR
52716	Deed	03 04 1956	Russel McArthur	John LAIRD
192850	Deed	15 10 1964	John Laird	George J. JULIAN
476508	Deed	03 05 1974	George J. Julian	Mary JULIAN
477866	Deed	14 05 1974	Mary Julian	George J. JULIAN & Mary JULIAN
527013	Deed	14 08 1975	George J. Julian & Mary Julian	George J. JULIAN
635208	Deed	18 05 1978	George J. Julian	John D. GRAHAM

Cont'd on Page 3

CHAIN OF TITLE REPORT

Project # 20200427065
Address: 989 Maplevue Drive East, Barrie
Legal Part Lot 19 Con 11 Innisfil
Description: Part 2 Plan 51R35948

PIN: 58092-0079 (LT)

Searched at: Barrie
LRO #: 51

Page 3

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
771819	Mortgage	27 08 1982	John D. Graham	Bank of Montreal (Mortgagee)
RO825784	Deed (Power of Sale)	03 04 1984	Bank of Montreal (John D. Graham defaulted in Mtg 771819)	Walter WARNICA
SC524643	Deed (Present Owner)	01 03 2007	Walter Warnica	Finger Lakes Estates Inc.

LAND
REGISTRY
OFFICE #51

58092-0079 (LT)

PAGE 1 OF 1
PREPARED FOR bertuccil
ON 2020/05/13 AT 09:33:35

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

PROPERTY DESCRIPTION: PT LT 19 CON 11 INNISFIL BEING PT 2 PL 51R35948; INNISFIL

PROPERTY REMARKS: "FOR THE PURPOSE OF THE QUALIFIER THE DATE OF REGISTRATION OF ABSOLUTE TITLE IS 2009/04/03".

ESTATE/QUALIFIER:
FEE SIMPLE
LT ABSOLUTE PLUS

RECENTLY:
RE-ENTRY FROM 58092-0057

PIN CREATION DATE:
2009/04/03

OWNERS' NAMES
FINGER LAKES ESTATES INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2009/04/03 **						
**SUBJECT TO SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPHS 3 AND 14 AND *						
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** TO THE CROWN UP TO THE DATE OF REGISTRATION WITH AN ABSOLUTE TITLE. **						
51R35948	2008/02/27	PLAN REFERENCE				C
SC726536	2009/04/03	APL ABSOLUTE TITLE		FINGER LAKES ESTATES INC.	FINGER LAKES ESTATES INC.	C

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N



51R42187
51R39350 3777 58091

3814
51R4110
3813

0002

0079

58092

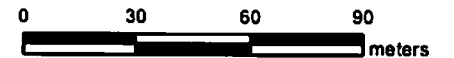
0080

51R35948

ServiceOntario

PRINTED ON 13 MAY, 2020 AT 09:37:06
FOR BERTUCCI1

SCALE



PROPERTY INDEX MAP
SIMCOE(No. 51)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE
PROPERTY INFORMATION AS THIS MAP MAY
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THIS MAP WAS COMPILED FROM PLANS AND
DOCUMENTS RECORDED IN THE LAND
REGISTRATION SYSTEM AND HAS BEEN PREPARED
FOR PROPERTY INDEXING PURPOSES ONLY

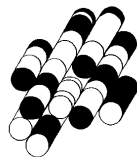
FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED



APPENDIX F



Terraprobe Inc.



DATABASE REPORT

Project Property:	<i>979 and 989 Maplevue Dr E 979 and 989 Maplevue Dr E Barrie ON L4N 0H7</i>
Project No:	<i>3-20-0023</i>
Report Type:	<i>Quote - Custom-Build Your Own Report</i>
Order No:	<i>20200427065</i>
Requested by:	<i>Terraprobe Ltd.</i>
Date Completed:	<i>April 29, 2020</i>

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

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Executive Summary

Property Information:

Project Property: 979 and 989 Maplevue Dr E
979 and 989 Maplevue Dr E Barrie ON L4N 0H7

Project No: 3-20-0023

Order Information:

Order No: 20200427065
Date Requested: April 27, 2020
Requested by: Terraprobe Ltd.
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans
Land Title Search Current Land Title Search
Land Title Search Historical Land Title Search

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	2	2
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FED TANKS	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	3	7	10
Total:			3	9	12

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<u>2</u>	WWIS		lot 19 con 11 ON <i>Well ID:</i> 5701423	NW/0.0	6.23	<u>13</u>
<u>3</u>	WWIS		lot 19 con 11 INNISFIL ON <i>Well ID:</i> 7051427	NNW/0.0	8.31	<u>16</u>
<u>4</u>	WWIS		lot 19 con 11 Innisfil ON <i>Well ID:</i> 7051426	NNW/0.0	9.70	<u>17</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		ON Well ID: 7315563	WNW/19.7	0.91	20
5	WWIS		ON Well ID: 7283336	NNE/34.3	6.98	20
6	WWIS		lot 19 con 11 ON Well ID: 5723059	SSW/8.9	7.03	21
7	WWIS		lot 19 con 12 Innisfil ON Well ID: 7309890	N/30.9	9.10	24
8	WWIS		lot 20 con 12 ON Well ID: 5701494	N/42.9	9.33	26
9	EHS		1700 Mapleview Drive East Innisfil ON	NW/116.0	11.61	29
9	EHS		1700 Mapleview Dr E Innisfil ON	NW/116.0	11.61	29
10	WWIS		lot 19 con 12 Innisfil ON Well ID: 7309891	N/64.5	9.31	29
11	WWIS		lot 20 con 12 ON Well ID: 5708961	NNE/126.8	9.15	31

Executive Summary: Summary By Data Source

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2020 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

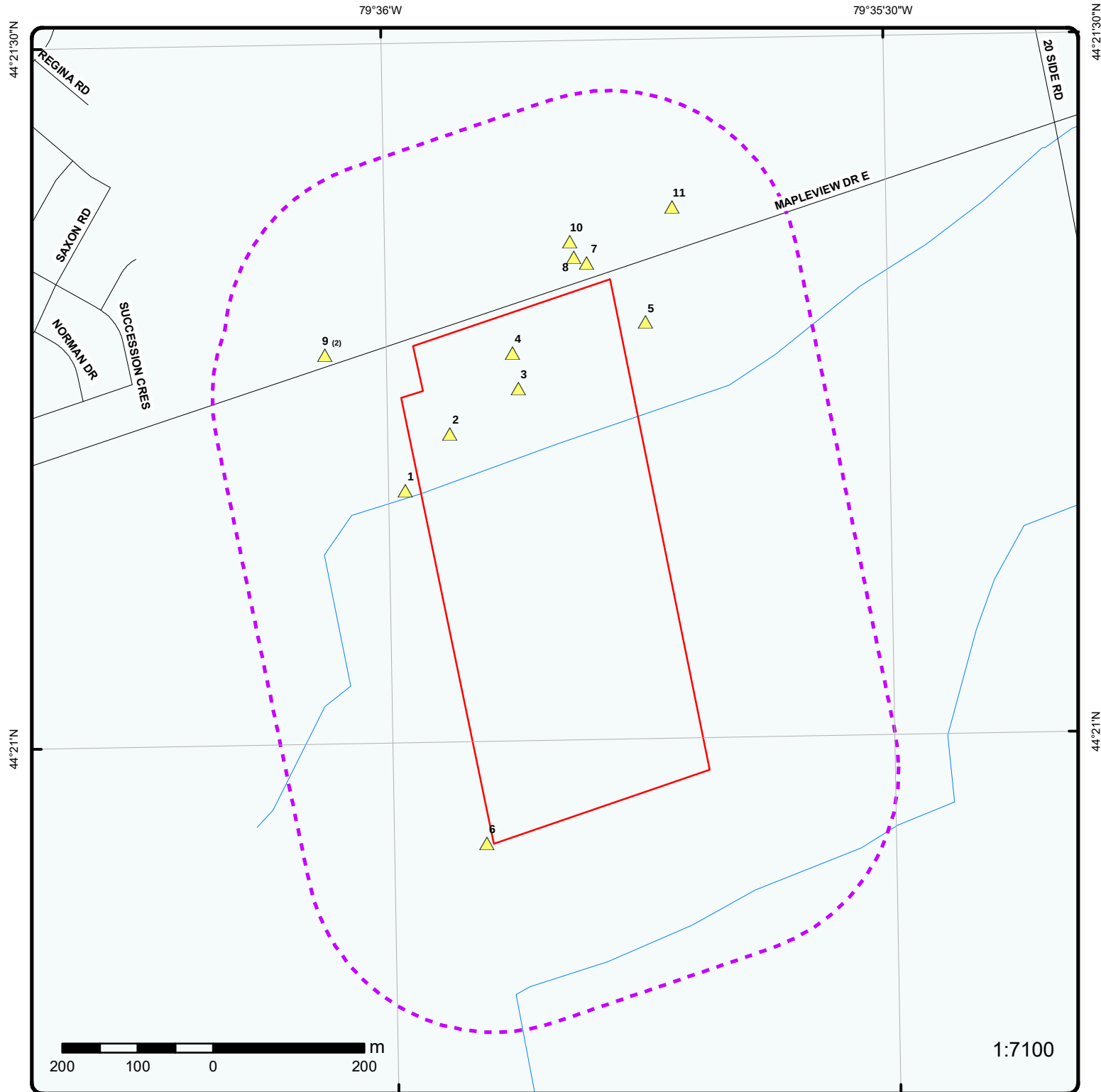
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	1700 Maplevue Drive East Innisfil ON	116.0	<u>9</u>
	1700 Maplevue Dr E Innisfil ON	116.0	<u>9</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 10 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>
	ON <i>Well ID: 7315563</i>	19.7	<u>1</u>
	lot 19 con 11 ON <i>Well ID: 5701423</i>	0.0	<u>2</u>
	lot 19 con 11 INNISFIL ON <i>Well ID: 7051427</i>	0.0	<u>3</u>
	lot 19 con 11 Innisfil ON <i>Well ID: 7051426</i>	0.0	<u>4</u>
	ON <i>Well ID: 7283336</i>	34.3	<u>5</u>
	lot 19 con 11 ON	8.9	<u>6</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Well ID: 5723059		
	lot 19 con 12 Innisfil ON	30.9	<u>7</u>
	Well ID: 7309890		
	lot 20 con 12 ON	42.9	<u>8</u>
	Well ID: 5701494		
	lot 19 con 12 Innisfil ON	64.5	<u>10</u>
	Well ID: 7309891		
	lot 20 con 12 ON	126.8	<u>11</u>
	Well ID: 5708961		



Map : 0.25 Kilometer Radius

Order Number: 20200427065

Address: 979 and 989 Mapleview Dr E, Barrie, ON



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

79°36'W

44°21'N

44°21'N



Aerial

Year: 2016

Address: 979 and 989 Maplevue Dr E, Barrie, ON

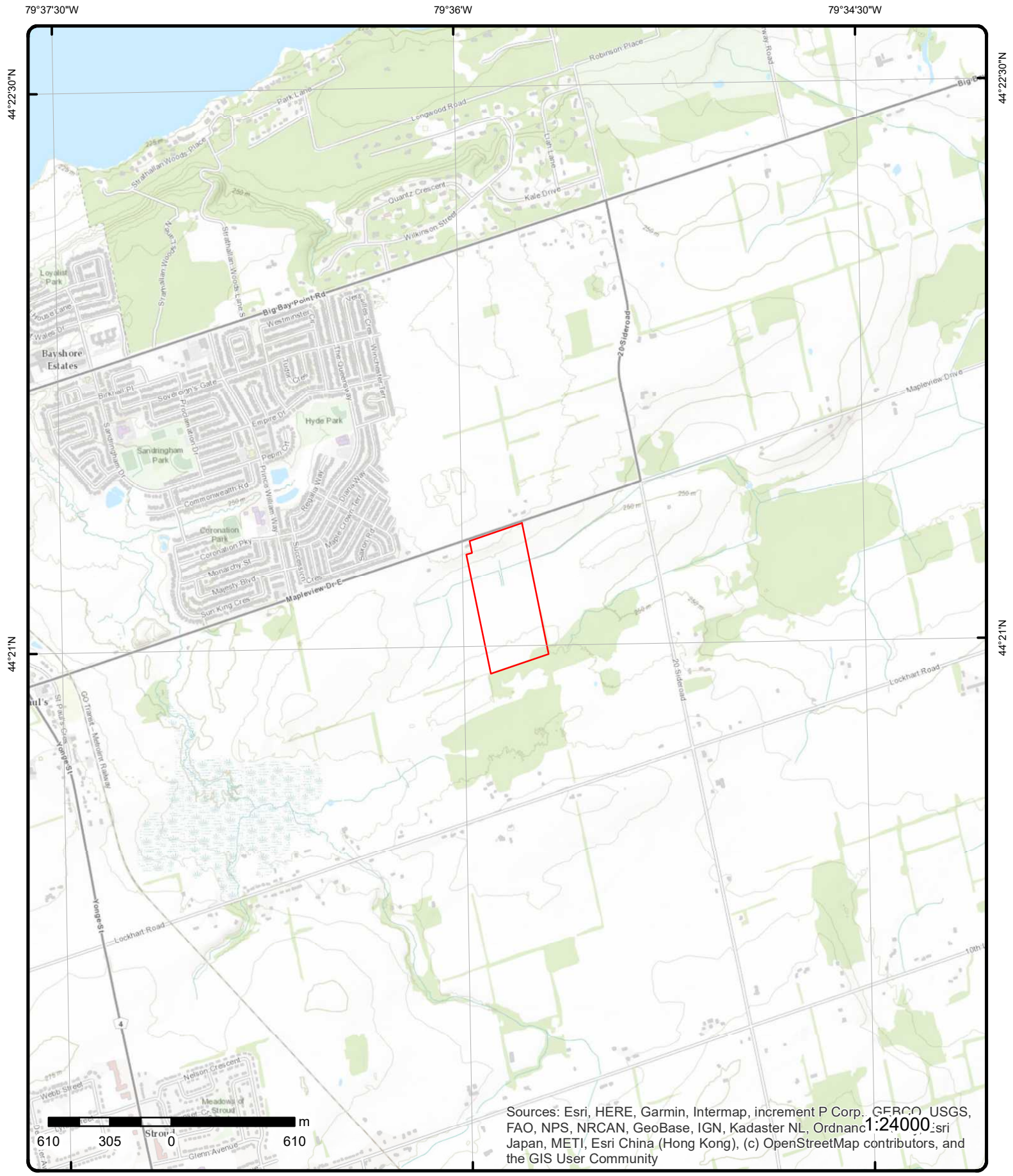
Source: ESRI World Imagery

Order Number: 20200427065

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Topographic Map

Address: 979 and 989 Mapleview Dr E, ON

Source: ESRI World Topographic Map

Order Number: 20200427065

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	NW/0.0	258.8 / 6.23	lot 19 con 11 ON	WWIS
Well ID: 5701423 Construction Date: Primary Water Use: Livestock Sec. Water Use: Domestic Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status: Data Src: 1 Date Received: 12/13/1965 Selected Flag: Yes Abandonment Rec: Contractor: 1510 Form Version: 1 Owner: Street Name: County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: 019 Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 10379316 DP2BR: Spatial Status: Code OB: 0 Code OB Desc: Overburden Open Hole: Cluster Kind: Date Completed: 9/15/1965 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Elevation: 255.642623 Elevrc: Zone: 17 East83: 611656.4 North83: 4912110 Org CS: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID: 932261051 Layer: 1 Color: 6 General Color: BROWN Mat1: 05 Most Common Material: CLAY Mat2: Other Materials:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		3			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261052			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Other Materials:		STONES			
Mat3:					
Other Materials:					
Formation Top Depth:		3			
Formation End Depth:		30			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261053			
Layer:		3			
Color:					
General Color:					
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		30			
Formation End Depth:		36			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261054			
Layer:		4			
Color:					
General Color:					
Mat1:		10			
Most Common Material:		COARSE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		36			
Formation End Depth:		44			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:					
Method Construction Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	10927886				
Casing No:	1				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	930627165				
Layer:	1				
Material:	1				
Open Hole or Material:	STEEL				
Depth From:					
Depth To:	40				
Casing Diameter:	4				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Screen</u>					
Screen ID:	933363331				
Layer:	1				
Slot:	016				
Screen Top Depth:	40				
Screen End Depth:	44				
Screen Material:					
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:	995701423				
Pump Set At:					
Static Level:	15				
Final Level After Pumping:	17				
Recommended Pump Depth:	30				
Pumping Rate:	10				
Flowing Rate:					
Recommended Pump Rate:	5				
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:	N				
<u>Water Details</u>					
Water ID:	933860783				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	30				
Water Found Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	NNW/0.0	260.9 / 8.31	lot 19 con 11 INNISFIL ON	WWIS
Well ID: 7051427 Construction Date: Primary Water Use: Not Used Sec. Water Use: Final Well Status: Abandoned-Other Water Type: Casing Material: Audit No: Z67264 Tag: A060738 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status: Data Src: Date Received: 10/25/2007 Selected Flag: Yes Abandonment Rec: Contractor: 7219 Form Version: 4 Owner: Street Name: 1657 MAPLEVIEW DR County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: 019 Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 23051427 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 9/15/2007 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Elevation: 257.371887 Elevrc: Zone: 17 East83: 611747 North83: 4912170 Org CS: UTM83 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID: 1000007571 Layer: 1 Plug From: 0 Plug To: 10.5 Plug Depth UOM: m					
<u>Pipe Information</u>					
Pipe ID: 1000007567 Casing No: 0 Comment: Alt Name:					
<u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		1000007573			
Layer:					
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:					
Casing Diameter:		10.16			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
 <u>Construction Record - Screen</u>					
Screen ID:		1000007574			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		1000007568			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		Y			
 <u>Hole Diameter</u>					
Hole ID:		1000007570			
Diameter:		10.16			
Depth From:					
Depth To:		10.05			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>4</u>	1 of 1	NNW/0.0	262.2 / 9.70	lot 19 con 11 Innisfil ON	WWIS
Well ID:	7051426			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Not Used			Date Received:	10/25/2007
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	
Water Type:				Contractor:	7219
Casing Material:				Form Version:	4
Audit No:	Z67263			Owner:	
Tag:	A060735			Street Name:	1657 MAPLEVIEW DR.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
 <u>Bore Hole Information</u>					
Bore Hole ID:	23051426			Elevation:	261.031127
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	611739
Code OB Desc:				North83:	4912217
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:	7/15/2007			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	www
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:	1000006904				
Layer:	1				
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	0				
Formation End Depth:					
Formation End Depth UOM:	m				
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:	1000006906				
Layer:	1				
Plug From:	0				
Plug To:	1.21				
Plug Depth UOM:	m				
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:	1000006908				
Layer:	3				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:		1.52			
Plug To:		3.96			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1000006909			
Layer:		4			
Plug From:		3.96			
Plug To:		4.26			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1000006907			
Layer:		2			
Plug From:		1.21			
Plug To:		1.52			
Plug Depth UOM:		m			
<u>Pipe Information</u>					
Pipe ID:		1000006902			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1000006912			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1000006903			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	WNW/19.7	253.5 / 0.91	ON	WWIS
Well ID: 7315563 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Z287580 Tag: A248578 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status: Yes Data Src: Date Received: 7/30/2018 Selected Flag: Yes Abandonment Rec: Contractor: 7201 Form Version: 7 Owner: Street Name: County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1007229631 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 5/14/2018 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Elevation: Elevrc: Zone: 17 East83: 611597 North83: 4912035 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr					
5	1 of 1	NNE/34.3	259.5 / 6.98	ON	WWIS
Well ID: 7283336 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: C36619 Tag: A217111 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Data Entry Status: Yes Data Src: Date Received: 3/17/2017 Selected Flag: Yes Abandonment Rec: Contractor: 7230 Form Version: 8 Owner: Street Name: County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1006368924			Elevation:	257.27539
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	611915
Code OB Desc:				North83:	4912258
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	11/17/2016			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
6	1 of 1	SSW/8.9	259.6 / 7.03	lot 19 con 11 ON	WWIS
Well ID:	5723059			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	4/25/1988
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3203
Casing Material:				Form Version:	1
Audit No:	NA			Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10400670			Elevation:	261.528808
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:	0			East83:	611705.4
Code OB Desc:	Overburden			North83:	4911568
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	11/23/1987			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932353627			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Other Materials:		SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		1			
Formation End Depth:		27			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932353628			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		91			
Other Materials:		WATER-BEARING			
Mat3:					
Other Materials:					
Formation Top Depth:		27			
Formation End Depth:		44			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932353626			
Layer:		1			
Color:					
General Color:					
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932353629			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Other Materials:		CLAY			
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		44			
Formation End Depth:		51			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10949240			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930653190			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		44			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933373371			
Layer:		1			
Slot:		012			
Screen Top Depth:		40			
Screen End Depth:		44			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995723059			
Pump Set At:					
Static Level:		21			
Final Level After Pumping:		32			
Recommended Pump Depth:		35			
Pumping Rate:		5			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		N			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934314319				
Test Type:					
Test Duration:	15				
Test Level:	32				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	935087647				
Test Type:					
Test Duration:	60				
Test Level:	32				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934580275				
Test Type:					
Test Duration:	30				
Test Level:	32				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934839226				
Test Type:					
Test Duration:	45				
Test Level:	32				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	933882873				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	44				
Water Found Depth UOM:	ft				
<u>7</u>	1 of 1	N/30.9	261.7 / 9.10	lot 19 con 12 Innisfil ON	WWIS
Well ID:	7309890			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	4/26/2018
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	4645
Casing Material:				Form Version:	7
Audit No:	Z271032			Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	12
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	1007030684			Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	611837
Code OB Desc:				North83:	4912337
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	3/9/2018			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1007250751				
Layer:	1				
Plug From:					
Plug To:					
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1007250752				
Layer:	1				
Plug From:	-10				
Plug To:	175				
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1007250753				
Layer:	2				
Plug From:	175				
Plug To:	187				
Plug Depth UOM:	ft				
<u>Pipe Information</u>					
Pipe ID:	1007250744				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1007250748				
Layer:	1				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-10			
Depth To:		181			
Casing Diameter:		6.25			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1007250749			
Layer:		1			
Slot:		8			
Screen Top Depth:		181			
Screen End Depth:		187			
Screen Material:		8			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5.5			
<u>Hole Diameter</u>					
Hole ID:		1007250746			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
8	1 of 1	N/42.9	261.9 / 9.33	lot 20 con 12 ON	WWIS
Well ID:		5701494		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Domestic		Date Received:	
Sec. Water Use:		0		Selected Flag:	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	
Casing Material:				Form Version:	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	
Elevation (m):				Municipality:	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		10379387		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	
Code OB:		0		East83:	
Code OB Desc:		Overburden		North83:	
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Completed:		11/9/1964		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261304			
Layer:		3			
Color:		5			
General Color:		YELLOW			
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		38			
Formation End Depth:		41			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261303			
Layer:		2			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		27			
Formation End Depth:		38			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932261302			
Layer:		1			
Color:					
General Color:					
Mat1:		23			
Most Common Material:		PREVIOUSLY DUG			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		27			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932261305			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		41			
Formation End Depth:		42			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10927957			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930627246			
Layer:		1			
Material:					
Open Hole or Material:					
Depth From:					
Depth To:		10			
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930627247			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		38			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933363366			
Layer:		1			
Slot:		016			
Screen Top Depth:		38			
Screen End Depth:		41			
Screen Material:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995701494			
Pump Set At:					
Static Level:		26			
Final Level After Pumping:		39			
Recommended Pump Depth:		39			
Pumping Rate:		2			
Flowing Rate:					
Recommended Pump Rate:		2			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933860850			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		38			
Water Found Depth UOM:		ft			
<u>9</u>	1 of 2	NW/116.0	264.2 / 11.61	1700 Mapleview Drive East Innisfil ON	EHS
Order No:		20070207008		Nearest Intersection:	
Status:		C		Municipality:	Simcoe
Report Type:		CAN - Custom Report		Client Prov/State:	
Report Date:		2/8/2007		Search Radius (km):	0.73
Date Received:		2/7/2007		X:	-79.600637
Previous Site Name:				Y:	44.357911
Lot/Building Size:					
Additional Info Ordered:					
<u>9</u>	2 of 2	NW/116.0	264.2 / 11.61	1700 Mapleview Dr E Innisfil ON	EHS
Order No:		20070910023		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		CAN - Custom Report		Client Prov/State:	
Report Date:		9/14/2007		Search Radius (km):	0.25
Date Received:		9/10/2007		X:	-79.60081
Previous Site Name:				Y:	44.351262
Lot/Building Size:					
Additional Info Ordered:					
<u>10</u>	1 of 1	N/64.5	261.9 / 9.31	lot 19 con 12 Innisfil ON	WWIS
Well ID:		7309891		Data Entry Status:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	4/26/2018
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:		Abandoned-Other		Abandonment Rec:	Yes
Water Type:				Contractor:	4645
Casing Material:				Form Version:	7
Audit No:		Z271033		Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	12
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		1007030687		Elevation:	
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:				East83:	611815
Code OB Desc:				North83:	4912365
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	5
Date Completed:		3/9/2018		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	gis
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007250763			
Layer:		2			
Plug From:		22			
Plug To:		26			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007250761			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1007250762			
Layer:		1			
Plug From:		-10			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		22			
Plug Depth UOM:		ft			
 <u>Pipe Information</u>					
Pipe ID:		1007250754			
Casing No:		0			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		1007250758			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:		-10			
Depth To:		22			
Casing Diameter:		6.245			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		1007250759			
Layer:		1			
Slot:					
Screen Top Depth:		22			
Screen End Depth:		26			
Screen Material:		8			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5.5			
 <u>Hole Diameter</u>					
Hole ID:		1007250756			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

<u>11</u>	1 of 1	NNE/126.8	261.7 / 9.15	lot 20 con 12 ON	WWIS
Well ID:	5708961			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	8/3/1972
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3203
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	020
Well Depth:				Concession:	12
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	10386787			Elevation:	261.685974
DP2BR:				Elevrc:	
Spatial Status:				Zone:	17
Code OB:	0			East83:	611950.4
Code OB Desc:	Overburden			North83:	4912411
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	6/20/1972			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	932291966				
Layer:	3				
Color:	5				
General Color:	YELLOW				
Mat1:	09				
Most Common Material:	MEDIUM SAND				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	18				
Formation End Depth:	42				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	932291968				
Layer:	5				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	66				
Formation End Depth:	70				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	932291965				
Laver:	2				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		5			
General Color:		YELLOW			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		1			
Formation End Depth:		18			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932291964			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932291967			
Layer:		4			
Color:		5			
General Color:		YELLOW			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Other Materials:		CLAY			
Mat3:					
Other Materials:					
Formation Top Depth:		42			
Formation End Depth:		66			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:					
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10935357			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930636216			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		39			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933366548			
Layer:		1			
Slot:		012			
Screen Top Depth:		39			
Screen End Depth:		42			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995708961			
Pump Set At:					
Static Level:		22			
Final Level After Pumping:		36			
Recommended Pump Depth:		40			
Pumping Rate:		6			
Flowing Rate:					
Recommended Pump Rate:		5			
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:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934299565			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		36			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935083064			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		36			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934566564			
Test Type:		Draw Down			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration:		30			
Test Level:		36			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934825668			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		36			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933868616			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		42			
Water Found Depth UOM:		ft			

Unplottable Summary

Total: 5 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 19 Con 11	Innisfil ON	
CA	HOLLY DEVELOPMENT CORPORATION	MAPLEVIEW DR. SAN.SEW. P.S.	BARRIE CITY ON	
CA	KERBAR HOLDINGS INC.	MAPLEVIEW DR. (S.W.M.)	BARRIE CITY ON	
SPL		Mapleview Drive (North Side)	Barrie ON	
SPL	denied s. 21(1)	Mapleview Drive<UNOFFICIAL>	Innisfil ON	

Unplottable Report

Site: Lot 19 Con 11 Innisfil ON

Database:
AAGR

Type: Pit
Region/County: Simcoe
Township: Innisfil
Concession: 11
Lot: 19
Size (ha):
Landuse:
Comments:

Site: HOLLY DEVELOPMENT CORPORATION
MAPLEVIEW DR. SAN.SEW. P.S. BARRIE CITY ON

Database:
CA

Certificate #: 3-1547-94-
Application Year: 94
Issue Date: 12/7/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: KERBAR HOLDINGS INC.
MAPLEVIEW DR. (S.W.M.) BARRIE CITY ON

Database:
CA

Certificate #: 3-0241-94-
Application Year: 94
Issue Date: 5/27/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Mapleview Drive (North Side) Barrie ON

Database:
SPL

Ref No: 2460-5LHTDX
Site No:
Incident Dt: 4/11/2003
Year:
Incident Cause: Discharge Or Bypass To A Watercourse
Incident Event:

Discharger Report:
Material Group: Waste
Health/Env Conseq:
Client Type:
Sector Type: Other
Agency Involved:

Contaminant Code:	43	Nearest Watercourse:	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	Site Address:	
Contaminant Limit 1:		Site District Office:	Barrie
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	Southwestern
Environment Impact:	Possible	Site Municipality:	Barrie
Nature of Impact:	Surface Water Pollution	Site Lot:	
Receiving Medium:	Water	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	4/11/2003	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Spill to Inland Watercourses
Incident Reason:	Ice/Snow/Rain	Source Type:	
Site Name:	CONSTRUCITON SITE<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Sediment Runoff: Maplevue Drive		
Contaminant Qty:			

Site: denied s. 21(1)
Maplevue Drive<UNOFFICIAL> Innisfil ON

Database:
[SPL](#)

Ref No:	8815-6B8FP7	Discharger Report:	0
Site No:		Material Group:	Oil
Incident Dt:	4/7/2005	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	Unknown	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	Barrie
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Possible	Site Municipality:	Innisfil
Nature of Impact:		Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	4/7/2005	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	Spill to Land
Incident Reason:		Source Type:	
Site Name:	Maplevue Drive<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Diesel to grnd.		
Contaminant Qty:			

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 **AGGR**

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial **AGR**

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

Government Publication Date: Up to Sep 2019

Abandoned Mine Information System:

Provincial **AMIS**

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private **ANDR**

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial **AST**

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private **AUWR**

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

Government Publication Date: 1999-Jan 31, 2020

Borehole:

Provincial **BORE**

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval:Provincial [CA](#)

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:Federal [CDRY](#)

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

Government Publication Date: Jan 2004-Dec 2017

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

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

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

Government Publication Date: Feb 28, 2017

Chemical Register:Private [CHEM](#)

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

Government Publication Date: 1999-Jan 31, 2010

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 - Feb 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:Provincial [COAL](#)

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:Provincial [CONV](#)

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

Government Publication Date: 1989-Nov 2019

Certificates of Property Use:Provincial [CPU](#)

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

Government Publication Date: 1994-Mar 31, 2020

Drill Hole Database:Provincial [DRL](#)

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

Government Publication Date: 1886 - Sep 2019

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-Mar 31, 2020

Environmental Registry:

Provincial

[EBR](#)

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

Government Publication Date: 1994-Mar 31, 2020

Environmental Compliance Approval:

Provincial

[ECA](#)

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

Government Publication Date: Oct 2011-Mar 31, 2020

Environmental Effects Monitoring:

Federal

[EEM](#)

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

[EHS](#)

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

Government Publication Date: 1999-Jan 31, 2020

Environmental Issues Inventory System:

Federal

[EIIS](#)

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

[EMHE](#)

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

[EPAR](#)

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

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

List of Expired Fuels Safety Facilities:

Provincial

EXP

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

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

Government Publication Date: Feb 28, 2017

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-Nov 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FED TANKS

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

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

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, 2017

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-Jan 31, 2020

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013-Dec 2017

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, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

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

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

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

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008-Dec 31, 2019

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-Feb 29, 2020

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

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

Government Publication Date: 1800-Jun 2019

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-Mar 31, 2020

Canadian Pulp and Paper:

Private

[PAP](#)

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

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

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

[PES](#)

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

Government Publication Date: 1988 - Mar 2020

Pipeline Incidents:

Provincial

[PINC](#)

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

Government Publication Date: Feb 28, 2017

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-Mar 31, 2020

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

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

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial

RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental clean-up 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-Mar 2020

Retail Fuel Storage Tanks:

Private

RST

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

Government Publication Date: 1999-Jan 31, 2020

Scott's Manufacturing Directory:

Private

SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial

SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Aug 2019

Wastewater Discharger Registration Database:

Provincial

SRDS

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

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Aug 2018

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

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

Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2017

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-Mar 31, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Feb 28, 2019

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.

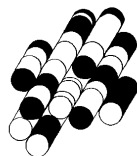
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

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.'

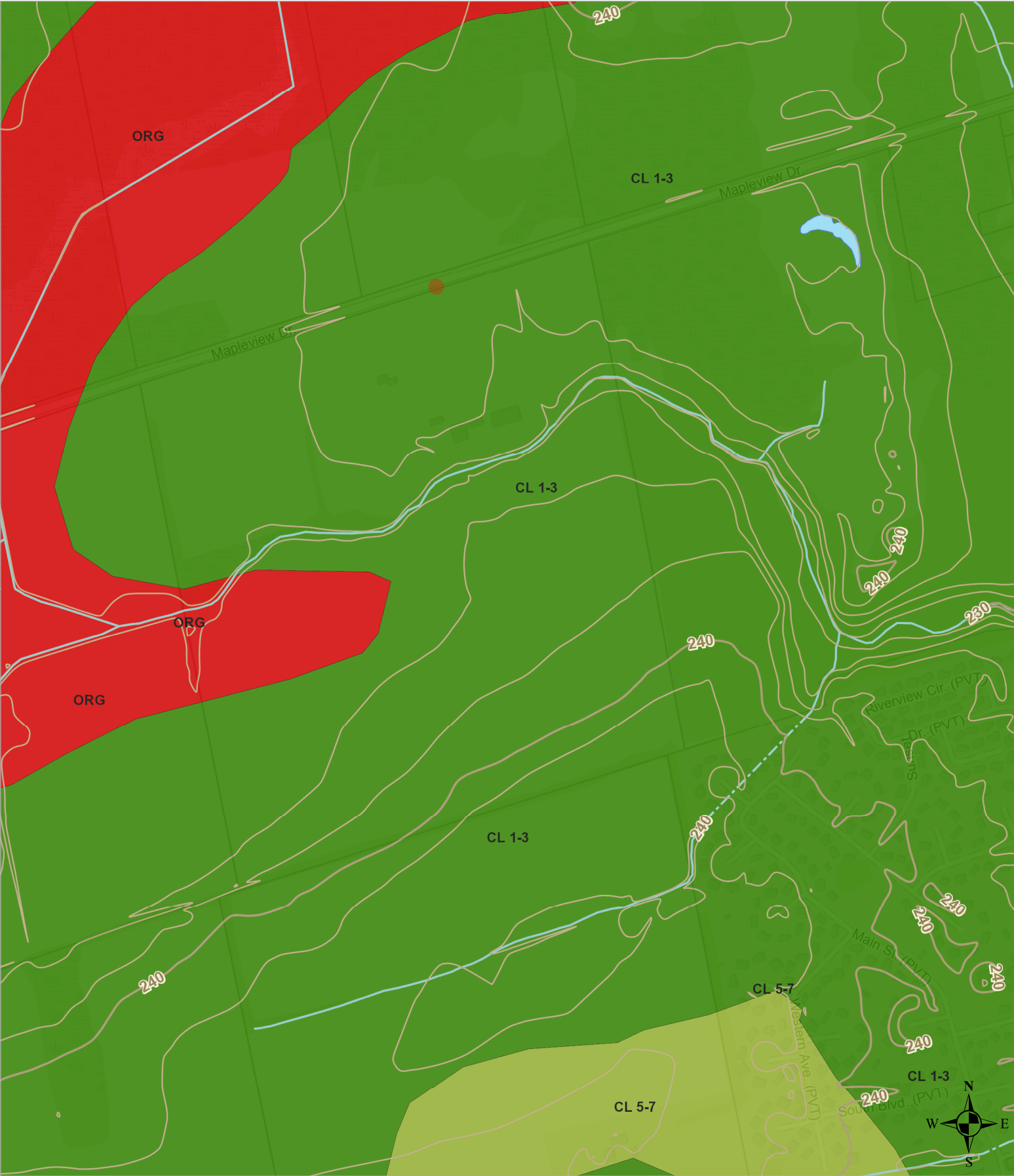
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX G



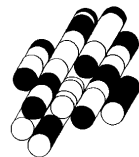
Terraprobe Inc.

County of Simcoe - Web Map



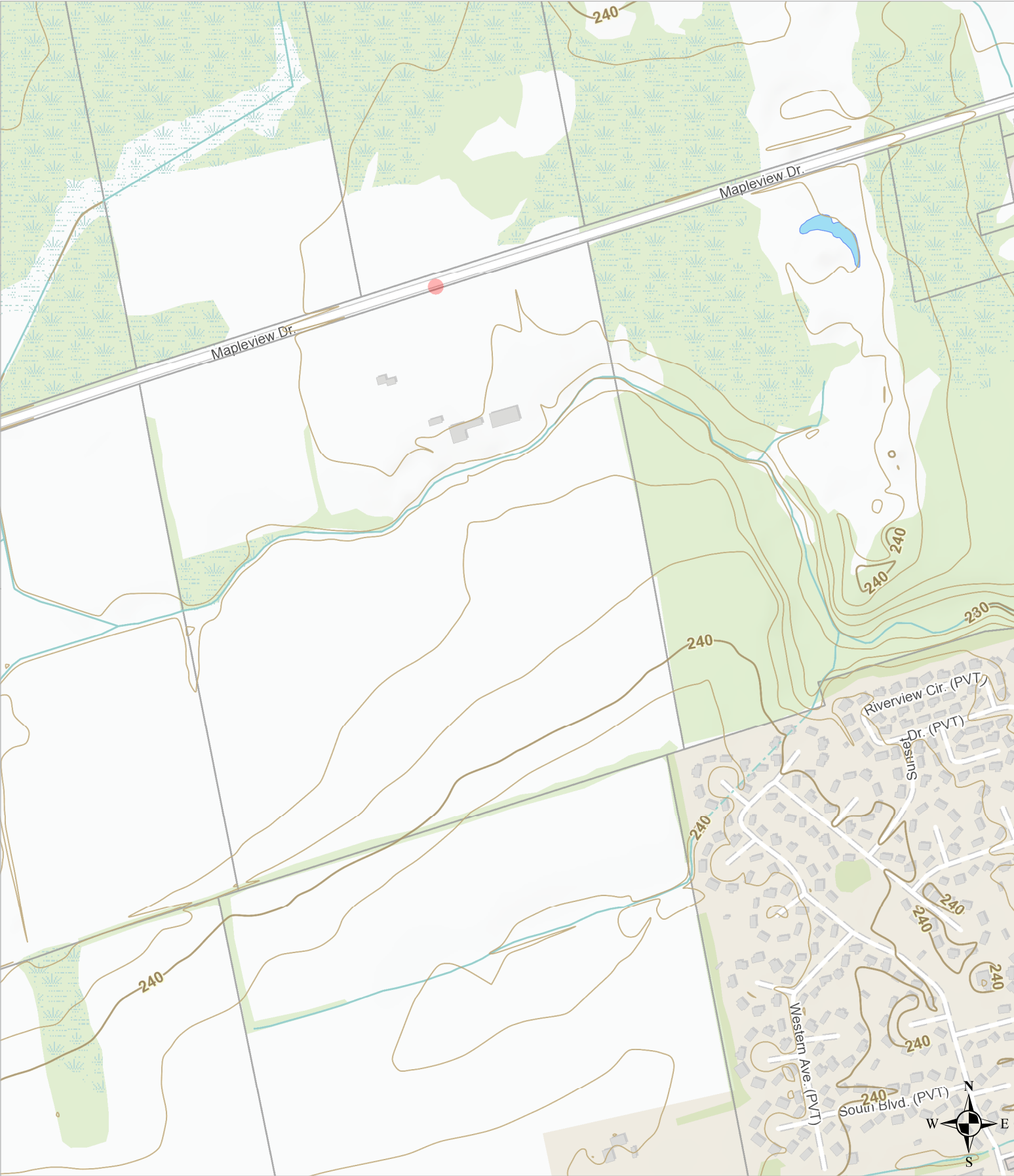
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APPENDIX H



Terraprobe Inc.

County of Simcoe - Web Map



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0 0.125 0.25 0.5 km

1:9,028



June 19, 2020



А 060738

Page of

Well Owner's Information

First Name Finger Lake	Last Name Estates Inc	E-mail Address		☐ Well Constructed by Well Owner
Mailing Address (Street Number/Name, RR) 8600 Danforth St		Municipality York	Province Ont	Postal Code L4K 5P5
Telephone No. (inc. area code) 416 798 1127				

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR) 1657 Mapleview Dr.				Township Innisfil				Lot 19		Concession 11	
County/District/Municipality Simcoe				City/Town/Village Innisfil				Province Ontario		Postal Code _ _ _ _	
UTM Coordinates NAD 83		Zone 17	Easting 611739	Northing 49122176	GPS Unit Make Garmin	Model Etrex	Mode of Operation: ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify _____				

Overburden and Bedrock Materials (see instructions on the back of this form)

[illegible]

Annular Space/Abandonment Sealing Record

Depth Set at (Metres)		Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
From	To		
0	1.21	Brown Sand Clay Fill	
1.21	1.52	Bentonite Hole Plug	0.156308
1.52	3.96	Brown Sand Clay Fill	0.603251
3.96	4.26	Bentonite Hole Plug	0.058615

Method of Construction

☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☒ Not used
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole	☐ Monitoring
☐ Rotary (Air)	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning	
☐ Air percussion	☐ Boring	☐ Industrial		
☐ Other, <i>specify</i> _____		☐ Other, <i>specify</i> _____		

Water Use

☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☒ Not used
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole	☐ Monitoring
☐ Rotary (Air)	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning	
☐ Air percussion	☐ Boring	☐ Industrial		
☐ Other, <i>specify</i> _____		☐ Other, <i>specify</i> _____		

Status of Well

☐ Water Supply	☐ Dewatering Well	☐ Observation and/or Monitoring Hole
☐ Replacement Well	☐ Abandoned, Insufficient Supply	☐ Alteration (Construction)
☐ Test Hole	☐ Abandoned, Poor Water Quality	☐ Other, <i>specify</i> _____
☐ Recharge Well	☒ Abandoned, other, <i>specify</i> _____	

Location of Well

Please provide a map below showing:

- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- vidigital pictures of inside of well can also be provided

A hand-drawn map of a street intersection. A horizontal line represents 'Mapleview Dr.' and a vertical line represents 'Hwy 41'. A dashed rectangle is drawn on the right side of the horizontal line, with a circled 'X' inside it. The text 'Hwy 41' is written vertically on the right side of the map, and 'Mapleview Dr.' is written horizontally above the intersection.

Date Well Completed (yyyy/mm/dd) 2007/09/15	Was the well owner's information package delivered? ☐ Yes ☒ No	Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd) 2007/09/15
---	---	--

Well Contractor and Well Technician Information

Business Name of Well Contractor		Well Contractor's Licence No.	
H&D Calvin Merklinger Well Drilling		7219	
Business Address (Street No./Name, number, RR)		Municipality	
4131 - 15th line RR #3 Cookstown		Innisfill	
Province	Postal Code	Business E-mail Address	

Bus. Telephone No. (inc. area code) 202 111 110 Name of Well Technician (Last Name, First Name) _____

Well Technician's Licence No.		Signature of Technician	Date Submitted (yyyy/mm/dd)
7054358791		Merklinger Calvin	2023/10/11

Results of Well Yield Testing

Check box if after test of well yield, water was:	Draw Down		Recovery	
☐ Clear and sand free	Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
☐ Cannot develop to sand-free state	Static Level	Dry	Static Level	
If pumping discontinued, give reason:	1		1	
Pumping test method	2		2	
Pump intake set at (Metres)	3		3	
Pumping rate (Litres/min)	4		4	
Duration of pumping hrs + min	5		5	
Final water level end of pumping (Metres)	10	10		
Recommended pump type ☐ Shallow ☐ Deep	15	15		
Recommended pump depth Metres	20	20		
Recommended pump rate (Litres/min)	25	25		
If flowing give rate (Litres/min)	30	30		
	40	40		
	50	50		
	60	60		

Water Details

Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth Metres ☐ Gas	Kind of Water ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used

☐ Galvanized
☐ Steel
☐ Fibreglass
☐ Plastic
☐ Concrete

Screen Used

☐ Galvanized
☐ Steel
☐ Fibreglass
☐ Plastic
☐ Concrete

Casing and Well Details

Diameter of the Hole (<i>Centimetres</i>)
Depth of the Hole (<i>Metres</i>)
Wall Thickness (<i>Metres</i>)
Inside Diameter of the Casing (<i>Metres</i>)
Depth of the Casing (<i>Metres</i>)

No Casing and Screen Used

☐ Open Hole

Ministry Use Only

Audit No. z67263	Well Contractor No.
Date Received (yyyy/mm/dd) OCT 25 2007	Date of Inspection (yyyy/mm/dd)
Remarks	



57 N^o 1423 B

UTM 17Z 611 642 E

45W 49 11 8 8 7 N

Elev. 181 08 50

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 221 County or District SIMCOE

Township, Village, Town or City Mississauga

Con. XI Lot E/219

Date completed 15 Sept 65 (day month year)

Address RR 4 BARRIE

Casing and Screen Record

Inside diameter of casing 4"
 Total length of casing 40'
 Type of screen COOK #16 SLOT.
 Length of screen 4'
 Depth to top of screen 40'
 Diameter of finished hole 4"

Pumping Test

Static level 15'
 Test-pumping rate 10 G.P.M.
 Pumping level 17'
 Duration of test pumping 2 HRS.
 Water clear or cloudy at end of test CLEAR.
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30' feet below ground surface

Well Log

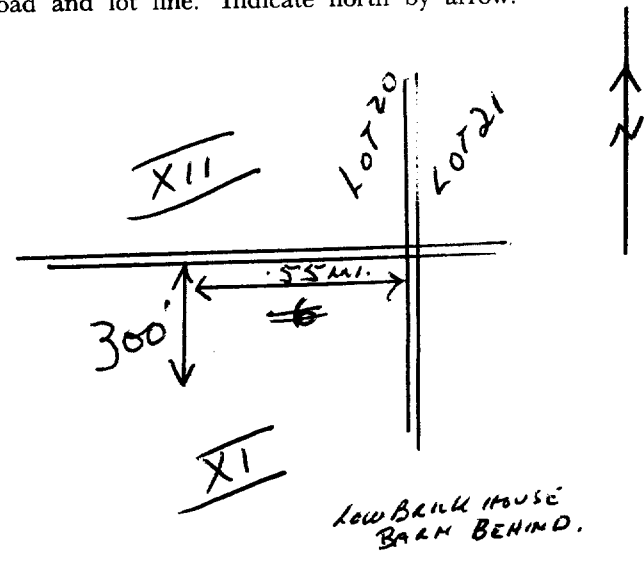
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
BROWN CLAY	0	3		
" " STONES	3	30		
FINE SAND	30	36	30	FRESH
COARSE "	36	44		

For what purpose(s) is the water to be used? FARM
 Is well on upland, in valley, or on hillside?
 Drilling or Boring Firm
 Address A. CAMERON.
 R.R. 1 MIDHURST.
 Licence Number 1659.
 Name of Driller or Borer SAME
 Address
 Date Dec. 8/65
 (Signature of Licensed Drilling or Boring Contractor)

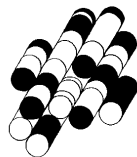
Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



LOW BRICK HOUSE
 BARN BEHIND.

APPENDIX I



Terraprobe Inc.

Freedom of Information and
Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Instructions

Use this form to request records that are in the Ministry's files on environmental concerns related to properties. Our fax number is 416 314-4285.

For Ministry Use Only

FOI Request Number	Date Request Received (yyyy/mm/dd)
Fee Paid	☐ Cheque ☐ VISA/MC ☐ Cash/Money Order
☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ IEB ☐ EAA ☐ EMR ☐ SCB ☐ SDW	

1. Requester Data

Last Name Pickett	First Name Kim	Middle Initial 1
Title Senior Environmental Project Manager	Company Name Terraprobe	

Mailing Address

Unit Number 25	Street Number 220	Street Name Bayview Dr	PO Box
City/Town Barrie		Province ON	Postal Code
Email Address kpickett@terraprobe.ca		Telephone Number 705 739-8355 ext. 222	Fax Number
Project/Reference Number 3-20-0023	Signature of Requester		

2. Request Parameters

Municipal Address (Municipal address mandatory for cities, towns or regions)

Unit Number	Street Number 979	Street Name and 989 Maplevue Dr E	PO Box
Lot Number	Concession	Geographic Township	
City/Town/Village Barrie		Province Ontario	Postal Code

Present Property

1. Owner Finger Lakes Estates	Date of Ownership (yyyy/mm/dd) 2007/01/01
Tenant (if applicable)	

Previous Property

1. Owner	Date of Ownership (yyyy/mm/dd)
Tenant (if applicable)	

3. Search Parameters

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

4. Environmental Compliance Approvals/Certificates of Approval

Environmental Compliance Approvals/Certificates of Approval	SD	Specify Year(s) Requested
air - emissions	☐	any
renewable energy	☐	any
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)	☐	any
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations	☐	any
waste water - industrial discharge	☐	any
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites	☐	any
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction	☐	any

Proponent information must be provided and Environmental Compliance Approval/Certificate of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the types and years to be searched. Specify Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.