

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEAN ROAD, STITTSVILLE, ON



Project No.: CP-18-0052

Prepared for:

Marco Recine
6310 Hazeldean Road
Ottawa, ON
K2S 1B9

Prepared by:

McIntosh Perry Consulting Engineers Ltd.
115 Walgreen Road, RR3
Carp, ON K0A 1L0

August 17, 2018

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by BBS Construction on behalf of Marco Recine to conduct a Phase One Environmental Site Assessment (ESA) for the properties located at 6310 Hazeldean Road Stittsville, Ontario (“the Site”). The Site is bounded to the northwest by Hazeldean Road, to the northeast by 1174 Carp Road, to the southwest by Hazeldean Road and vacant land and southeast by vacant land followed by residential properties. The Site currently consists of three 1-storey buildings with open land surrounding the buildings. The Site is currently used as the offices and storage yard of Techo-Bloc pre-cast concrete block products.

It is understood that this Phase One ESA is being completed as a component of the City of Ottawa site plan submission process, in support of an application to construct a two-storey office building with an associated outdoor parking lot to the north.

The Phase One ESA has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 as amended. The report is also in general compliance with “Phase I Environmental Site Assessment”, Canadian Standards Association (CSA) standard CSA Z768-01, reaffirmed 2016.

Based on a review of aerial photographs, historical information, and interviews, the Site was developed to its current configuration prior to 1976.

Two PCAs were identified at, on, or under the Site.

- 6310 Hazeldean Road
 - Above ground storage tank
- 6310 Hazeldean Road
 - Former automotive Garage

Three off-site PCAs were identified in the Phase One ESA Study Area.

- 6250 Hazeldean Road
 - RV Dealership
- 1174 Carp Road
 - Retail fuel outlet
- 1189 Carp Road
 - Oil Changers automotive garage
 - Commercial self-serve car wash

The above noted on-site PCAs are considered to result in an APEC for the Site. Due to the limited information available for the previous use of the Site and presence of an automotive garage, it is possible that the operations have had impacts to the soil and groundwater in the vicinity of the garage and fuel storage tank.

The above noted Off-site PCA are areas of environmental concern that have the possibility of impacting on-site soil and groundwater conditions.

Based on the presence of on-site PCAs resulting in APECs, ***a Phase Two ESA is recommended at this time*** to assess whether the historical presence of the RV service garage and aboveground fuel storage tank have impacted soil and groundwater quality at the Site.

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1.0 INTRODUCTION

McIntosh Perry Consulting Engineers Ltd. (McIntosh Perry) was retained by BBS Construction (Ontario) Inc. on behalf of Marco Recine to conduct a Phase One Environmental Site Assessment (ESA) for the properties located at 6310 and 6320 Hazeldean Road Stittsville, Ontario (“the Site”). The Site is bounded to the northwest by Hazeldean Road, to the northeast by 1174 Carp Road, to the southwest by Hazeldean Road and vacant land and southeast by vacant land followed by residential properties. The Site currently consists of three 1-storey buildings with open land surrounding the buildings. The Site is currently used as the offices and storage yard of Techo-Bloc pre-cast concrete block products.

It is understood that this Phase One ESA is being completed as a component of the City of Ottawa site plan submission process, in support of an application to construct a retail plaza with associated parking.

The Site location is shown on Figure 1 (Site Location). The Site layout and features, including on-site land use, are shown on Figure 2 (Site Layout).

The intended future use of the Site will be three one-storey buildings with associated parking.

1.1 Phase One Property Information

The Site consists of three land parcels, 6310, 6320 and a section with no address on Hazeldean Road. For the purposes of this investigation, 6310 Hazeldean Road is given as the address for the entire Site. The site is occupied by three (3) one-storey buildings (two modular buildings and one permanent building with a concrete block foundation). The rest of the property is open land used as storage.

Site zoning is AM9 (Arterial Mainstreet Zone, Subzone 9) as described under section 185-186 of the City of Ottawa Zoning by-laws, which allows for the intended future use of the property.

The total area of the Site is approximately 1.6 hectares (ha).

1.1.1 Property Identification

The legal description of the Site is as follows;

- Parts 1, 2, 3, 4, 5, 6, and 7, Registered Plan 4R-19395 (PIN 04753-0270, 04753-0271, and 04753-0272)

1.1.2 Property Ownership and Contact Details

McIntosh Perry was retained to complete this Phase One ESA by Mr. Frits Bosman of BBS Construction (Ontario) Ltd. Mr. Bosman can be contacted at (613) 226-8830. Mr. Marco Recine, property owner, can be contacted at hazeldeandevlopments@gmail.com.

1.1.3 Current and Proposed Future Uses

- The site is occupied by three 1-storey buildings, (two modular buildings and one permanent building with a concrete block foundation). The rest of the property is open land used for storage.

The intended future use of the Site will be a three-building retail plaza with associated paved parking areas.

1.2 Surrounding Land Use

Land use in the vicinity of the Site is predominantly residential and commercial.

2.0 SCOPE OF INVESTIGATION

A Phase One ESA is a preliminary environmental screening tool designed to provide a qualitative assessment of the environmental condition of a site, based on a desktop review of available documentation pertaining to the site and observations made during a site visit. Sampling and chemical analysis of soils, groundwater, and/or other materials/substances are beyond the scope of work for a Phase One ESA.

The Phase One ESA has been prepared in general accordance with the requirements of the following legislation:

- Ontario Regulation (O.Reg.) 153/04 - Records of Site Condition (as amended).

The report is also in general compliance with:

- "Phase One Environmental Site Assessment", Canadian Standards Association (CSA) standard CSA Z768-01, Reaffirmed 2016.

A designated substances survey was not completed as part of the current investigation.

The subject property is not an 'Enhanced Investigation Property' as defined in O.Reg. 153/04 (as amended).

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

The Phase One Study Area includes the following properties:

- The Site
- All properties within approximately 250m of the Site boundary (Phase One ESA Study Area)

The Phase One ESA Study Area, including surrounding land uses, is shown on Figure 2 (Study Area) and Figure 3 (Surrounding Land Use).

3.1.2 First Developed Use Determination

The Site is currently occupied by three 1-storey buildings. Based on a review of aerial photographs and historical information, the Site appears to have been developed to its current use and general configuration prior to 1976 (i.e. three 1-storey buildings).

3.1.3 Fire Insurance Plans

The Catalogue of Canadian Fire Insurance Plans (FIPs) was not searched as part of this Phase One ESA. It is our understanding that Fire Insurance Plans are not available for the area of the Site.

3.1.4 Chain of Title

A Chain of Title search was not conducted as part of this report.

3.1.5 Reports by Others

A Phase I ESA report was completed by Water and Earth Science Associated Ltd. in February 2008 and concluded that there is 'no actual evidence of contamination of the subject property'. The report notes that the former use of the Site was an RV dealership between 1992 and 2008, which may potentially result in generation of fuel, oil and grease, anti-freeze, and/or windshield washer fluid waste. However, the report mentions that the only way to determine these impacts is with a subsurface investigation.

3.1.6 City Directories

The City Directory was searched as part of this Phase One ESA, results are from 1957 to 2011. The directory lists 6310 Hazeldean Road as "Address Not Listed" between 1957 and 1996. 6310 Hazeldean Road is listed as "Foran RV's LTD" from 1996 to 2007 after which it is listed as a Techno-Bloc Ottawa.

Based on review of the City Directories, the commercial business listed are considered to represent a PCA for the Site.

3.2 Environmental Source Information

McIntosh Perry completed a records review to obtain information about the Site pertaining to items of actual and/or potential environmental concern.

3.2.1 Databases Searched

McIntosh Perry obtained information contained in the databases listed below from EcoLog ERIS of Toronto, Ontario. Details about the sources of information and the years included for each database, as well as the pertinent information obtained from these databases are included in the EcoLog ERIS report, provided as Appendix A.

Federal Government Databases:

- Environmental Effects Monitoring
- Environmental Issues Inventory System
- Federal Convictions
- Contaminated Sites on Federal Land
- Fisheries & Oceans Fuel Tanks
- Indian and Northern Affairs Fuel Tanks
- National Analysis of Trends in Emergencies System (NATES)
- National Defence & Canadian Forces Fuel Tanks
- National Defence & Canadian Forces Spills
- National Defence & Canadian Forces Waste Disposal Sites
- National Environmental Emergencies System (NEES)
- National PCB Inventory
- National Pollutant Release Inventory
- Parks Canada Fuel Storage Tanks
- Transport Canada Fuel Storage Tanks

Provincial Government Databases:

- Abandoned Aggregate Inventory
- Aggregate Inventory
- Abandoned Mines Information System
- Certificates of Approval
- Coal Gasification Plants
- Compliance and Convictions
- Drill Holes
- Environmental Registry
- Ontario Regulation 347 Waste Generators Summary
- Mineral Occurrences
- Non-Compliance Reports

- Ontario Oil and Gas Wells
- Ontario Inventory of PCB Storage Sites
- Ministry Orders
- Occurrence Reporting Information System
- Pesticide Register
- Private Fuel Storage Tanks
- Ontario Regulation 347 Waste Receivers Summary
- Record of Site Condition
- Wastewater Discharger Registration Database
- Waste Disposal Sites – MOE CA Inventory
- Waste Disposal Sites – MOE 1991 Historical Approval Inventory
- Water Well Information System

Private Databases:

- Anderson’s Waste Disposal Sites
- Automobile Wrecking and Supplies
- Commercial Fuel Oil Tanks
- Chemical Register
- ERIS Historical Searches
- Canadian Mine Locations
- Oil and Gas Wells
- Canadian Pulp and Paper
- Retail Fuel Storage Tanks
- Scott’s Manufacturing Directory
- Anderson’s Storage Tanks

3.2.2 Database Findings Relevant to the Phase One ESA

The databases searched by EcoLog ERIS contained the following information pertaining to the Site:

- Twenty-Five (25) borehole records
- Three (3) Certificate of Approval records
- Two (2) Environmental Compliance Approval records
- Three (3) ERIS Historical Searches records
- Seven (7) Water Well Information System records

Relevant information from the EcoLog ERIS report is summarized as follows:

Boreholes

No boreholes were listed on the subject property. Twenty-five boreholes were recorded within 250 m of the subject property. Borehole records are summarized in the Table below:

Table 1: Borehole Records

Borehole ID	Location relative to site	Completion Depth (m bgs)	Depth to Bedrock (m bgs)	Static Water Level (m)
808675	50.47 m west southwest	0.8	-	-
808674	60.4 m west	1.5	-	-
808673	65.2 m west	1.5	-	-
808671	65.7 m north	0.3	-	-
808670	72.6 m north	1.5	-	-
808672	73.9 m west	0.8	-	-
808669	80.0 m north	1.5	-	-
808668	89.2 m north northwest	0.9	-	-
609557	101.0 m north	-	6.1	-
609551	105.5 m south southwest	23.2	2.7	-
808667	161.3 m north northeast	0.9	-	-
808666	163.5 m north northeast	1.5	-	-
808665	164.4 m north northeast	1.5	-	-
808664	166.9 m north northeast	1.5	-	-
808663	167.8 north northeast	1.5	-	-
808662	174.1 m north	0.9	-	-
808195	202.9 m north northeast	1.5	-	-
808194	205.0 m north northeast	1.5	-	-
808193	207.0 m north northeast	0.1	-	-
808200	216.4 m north northeast	1.5	-	-
808199	218.4 m north northeast	1.5	-	-
808192	223.8 m north northeast	0.3	-	-
808191	230.6 m north northeast	1.5	-	-
808190	231.9 m north northeast	1.5	-	-
808206	249.3 m northeast	0.1	-	-

Locations of the boreholes can be found in the Ecolog ERIS report in Appendix A.

Certificates of Approval

Three Certificates of Approval records were found within 250m of the subject site. No records were found for the subject property. The records include the following

- Three records were listed under R.M. of Ottawa-Carleton, located at Hazeldean/Carp Road
 - One record was listed under R.M. Of Ottawa-Carleton for a Cancelled Municipal Sewage Certificate in November 1994 (Certificate # 3-0673-94-)

- One record was listed under the City of Ottawa for Municipal Water Certificate in August 1994 (Certificate # 7-0673-94-007)
- One record was listed under the City of Ottawa for a Municipal and Private Sewage Works Certificate in September 2005 (Certificate # 6863-6FHQVH)

All located records can be found in Appendix B. Locations of the Certificate of Approval can be found in the Ecolog ERIS report in Appendix A.

Environmental Compliance Approvals

Two Environmental Compliance Approval records were found within 250m of the subject site. No records were found for the subject property. Environmental Compliance Approval records are summarized in the Table below:

Table 2: Environmental Compliance Approval Records

Certificate Number (Status)	Company	Location	Approval Type	Approval Date
7773-8EMKSV (Approved)	City of Ottawa	6303 Hazeldean Road	Municipal and Private Sewage Works	2011-03-31
6863-6FHQVH (Revoked/Replaced)	City of Ottawa	Hazeldean and Carp Road	Municipal and Private Sewage Works	2005-09-19

All located copies of above records can be found in Appendix B. Locations of the Environmental Compliance Approval can be found in the Ecolog ERIS report in Appendix A.

Historical ERIS Searches

Three ERIS Historical searches were listed within 250 m of the subject property. One ERIS Historical searches record was found for the subject property. The searches are summarized in the Table below:

Table 3: ERIS Historical Searches

Report Type	Location	Date
Complete Report	6310 Hazeldean Road	18-Jan-2008
Standard Select Report	Concession 12, Part lot 22, Parts 27 and 32	03-Jul-2014
Standard Report	6315 Hazeldean Road and 1140 Carp Road	30-September-2013

Locations of the ERIS Historical Searches records can be found in the Ecolog ERIS report in Appendix A.

Water Well Information System

Seven Water Well Information records found within 250m of the subject property. No records were found for the subject property. The Table below summarize the details of each well.

Table 4: Water Well Information System Records

Well ID	Completion Material	Depth to Bedrock (m bgs)	Bedrock Type	Well Depth (m bgs)	Well Use	Static Water Level (m bgs)	Clear/ Cloudy	Water Type
1509719	Bedrock	2.13	Limestone	22.3	Commercial Water Supply	0.6	Clear	Fresh
1509711	Bedrock	2.7	Limestone	23.2	Domestic	1.5	Clear	Fresh
1514019	Bedrock	4.6	Limestone	168.3	Commercial Water Supply	2.4	Clear	Sulphur
1514020	Bedrock	4.6	Limestone	121.9	Abandoned Supply	-	-	-
1502947	Bedrock	9.1	Limestone	15.2	Water Supply	6.1	Clear	Fresh
1510035	Bedrock	2.7	Limestone	45.7	Domestic Water Supply	1.8	Clear	Fresh
1502950	Bedrock	13.7	Limestone	27.4	Domestic Water Supply	11.0	Clear	Fresh

Locations of the Water Well Information records can be found in the Ecolog ERIS report in Appendix A.

3.2.3 MECP Freedom of Information and Index Review Requests

In order to identify any previous environmental reports concerning the Site, an MECP freedom of information (FOI) request and index review request was submitted for the Site on July 31, 2018. At time of writing MPCE has received no official response from MECP, responses take between one to two months to receive.

A copy of the MECP correspondence is provided in Appendix C.

3.2.4 TSSA Information Request

An FOI request was also submitted to the Technical Standards and Safety Authority (TSSA). The TSSA request returned no records of fuel tanks on the subject property.

A copy of the TSSA correspondence is provided in Appendix C.

4.0 PHYSICAL SETTING

4.1 Aerial Photographs and Satellite Images

Table 8 describes observations about current and historical land use for the Site and surrounding properties that were noted during review of aerial photographs of the area taken between 1928 and 2017, included in Appendix D. Current land uses are included on Figure 4.

Table 5: Current and Historical Land Use from Aerial Photographs and Satellite Images

Date	Source	Observations
1932	National Air Photo Library	The Site consists of open vacant land that has not yet been developed. The surrounding area consists of farm land.
1945	National Air Photo Library (A.9558-41)	The Site remains relatively unchanged.
1967	National Air Photo Library (A20309-83)	The Site remains relatively unchanged. Hazeldean Road appears in its present-day configuration. Electrical transmission lines have been constructed to the north of the Site.
1978	National Air Photo Library (A31198-180)	The Site has been cleared and two buildings have been constructed. The lot to the east of the Site (1174 Carp Road) has been developed and buildings are present. Further residential development has occurred in surrounding areas.
1991	GeoOttawa	The Site remains relatively unchanged. Increased residential development is present in the surrounding area.
2002	GeoOttawa	Additional vehicle and/or materials storage is visible on the southern and eastern portion of the Site. Farmland across from the site has started to be developed into a residential area. Surrounding residential areas have expanded.
2007	GeoOttawa	One of the major site buildings appears to have been moved westward, or a new building has been constructed in the central portion of the Site. The Site appears to have changed ownership and use, and now appears to be storing building products.
2011	GeoOttawa	The Site remains relatively unchanged. A large building and a residential area have been constructed directly across from the site on the other side of Hazeldean Road. Surrounding residential areas have expanded.
2017	GeoOttawa	The Site remains relatively unchanged.

Based on the aerial photos no PCAs were identified on-site or in the surrounding area.

4.2 Topography

Elevation at the Site is approximately 120 m above sea level (m asl). The topography is generally flat (see Figure 4).

4.3 Hydrology

The Site occurs within the Mississippi River watershed. Feedmill Creek, a tributary of the Carp River, is approximately 530 m southeast of the Site.

4.4 Geology

4.4.1 Surficial Geology

Geological maps of the area classify the overburden at the Site as glacial till, stone-poor, with sandy silt to silty sand texture. (OGS, 2018).

4.4.2 Bedrock Geology

Geological maps of the area classify the bedrock at the Site as predominantly limestone, dolostone, shale, arkose and sandstone of the Ottawa Group (OGS, 2018).

4.5 Hydrogeology

Based on a review of site geology and topography, groundwater is likely to flow northward toward Feedmill Creek which feeds into the Carp River.

4.6 Fill Materials

The Site visit and analysis of the aerial photos indicate the historical placement and/or grading of fill material at the site.

4.7 Water Bodies and Areas of Natural Significance

The closest permanent waterbody is the Feedmill Creek (located 0.54 km northwest of the Site at its closest point).

When completing a Phase One ESA, considerations are made for the following MNRF-maintained areas of natural significance:

- Areas of Natural and Scientific Interest (ANSIs);
- Provincially Significant Wetlands (PSWs); and,
- Wildlife Management Areas (WMAs).

No areas of natural significance were observed within the Study Area.

4.8 Well Records

McIntosh Perry performed a well record search utilizing the EcoLog ERIS Water Well Information System (WWIS) data (based on MOECC GIS data). Seven well records were returned from this search, details of the record are located in the Section 3.2.2.

5.0 INTERVIEWS

McIntosh Perry personnel conducted an interview with Michael Uberti and Marco Recine, owners of the property, to obtain information about the subject property pertaining to items of actual and/or potential environmental concern. Information collected during this interview was used to corroborate data from other sources, and is presented in Appendix E.

The information obtained from the interview is summarized as follows:

Potential Environmental Concerns	Interview Comments
Accidents/Spills	No Knowledge
Previous Use of Site	RV Dealership with garage
Adjacent Properties	Vacant, RV Dealership
Fuel Handling/Storage	Diesel fuel for forklift, above ground tank on concrete pad, propane tank
Maintenance/Operational Areas	No, gas heater in garage
Hazardous Materials Storage	Efflorescence remover
Salt Storage	Sodium chloride bags (in flakes) for dust suppression
Fuel Storage Tanks	Previous AST, propane tank
Odours	No Odours
Potable Water	Yes – Well to the garage
Septic and Wastewater Discharges	Septic field behind office
Pesticides	No Knowledge
Mould	No Knowledge
Heating and Cooling Systems	Gas heater, portable unit in office
Major Mechanical Equipment	Forklift – Stored in garage
Waste Oils, Solvents, Batteries	No Knowledge
PCBs	No Knowledge
Asbestos	No Knowledge
Lead Paint	No Knowledge
ODS	No Knowledge
Electromagnetic Radiation	Microwave
UFFI	No Knowledge
Mercury	Possible – thermostats used
Radon Gas	No Knowledge
Soil and Groundwater Conditions	No Knowledge
Wells	One water well
Waste Disposal and Recycling	On call garbage bin
Fill Material	Gravel to fill potholes
Floor Drains/OWS (Discharge Locations)	Not sure – possible basin, filled in with gravel
Other	No

Note that statements made by those interviewed were not made categorically and are limited to personal knowledge of, and experience with, the subject property. The significance of environmental concerns that have been identified by other methods was not reduced based on the interview statements.

Based on interview results during the site visit on August 1, 2018, two on-site PCAs were identified. A former RV service garage and a former above ground diesel storage tank.

6.0 SITE RECONNAISSANCE

The objectives of the site reconnaissance were as follows:

- To identify potential environmental concerns associated with current and past uses of the Site;
- To identify Potentially Contaminating Activities (PCAs) on, in, or under the Site;
- To identify, as practical, current and past uses, activities, and PCAs in the vicinity of the Site; and
- To identify details of potential contaminant pathways on, in, or under the Site and potential environmental concerns and contaminants of potential concern.

McIntosh Perry had open and ready access to all exterior areas of the Site during the site visit.

6.1 General Requirements

McIntosh Perry conducted the Site reconnaissance on August 1, 2018 (from approximately 9:55am to 11:00am). Bradley Sutherland of McIntosh Perry inspected the entirety of the property, and observed other properties in the Study Area from publicly accessible locations.

6.1.1 Qualifications of the Assessors

Field assessment for this report was undertaken by Bradley Sutherland, B.Sc. of McIntosh Perry. Bradley has successfully completed numerous Phase One ESAs for various clients in Ontario. Reporting was completed by Bradley Sutherland, B.Sc., Stefan Holik and Daniel Arnott, P.Eng. Daniel is an Ontario licensed Professional Engineer and a Qualified Person (QP) under O.Reg. 153/04, as amended, and has completed numerous Phase One and Two ESAs across Ontario. Stefan Holik is an environmental technician with extensive knowledge of Phase One reports.

McIntosh Perry is licensed to practice engineering and geoscience in the Province of Ontario. McIntosh Perry holds Certificates of Authorization with the Professional Engineers of Ontario (PEO) and the Association of Professional Geoscientists of Ontario (APGO) and is a full member of the Consulting Engineers of Ontario (CEO).

6.1.2 Weather Conditions at Time of Inspection

Weather conditions at the time of the Site visit was overcast and approximately 27 degrees Celsius.

6.1.3 Property Occupancy/Use Status at Time of Inspection

The Site currently consists of three lots, addressed as 6310, 6320 and a section with no address on Hazeldean Road.

- The site is occupied by three 1-storey buildings (two modular buildings and one permanent building with a concrete block foundation). The rest of the property is open land used as storage.

Land use in the vicinity is shown on Figure 4.

6.1.4 Site Photographs

Photographs of the Site are included in Appendix F. A brief description is included with each photograph, including location and orientation where applicable.

6.2 Description of Investigations

The Phase One component of the current investigation is a preliminary environmental screening that aims to provide a qualitative assessment of the environmental condition of the site based on a review of available information pertaining to the Site, observations made during a Site visit, and information from interviews with people who have knowledge of the Site and its history.

The Phase One portion of the current investigation includes the following components:

- A review of available background information;
- Interviews with person(s) knowledgeable about the site;
- Site reconnaissance; and
- Freedom of information requests (Ministry of the Environment, Conservation and Parks (MECP) and the Technical Standards and Safety Authority (TSSA))

6.2.1 Phase One Property

The Site consists of three land parcels, addressed as 6310, 6320 and a section with no address on Hazeldean Road. The Site consists of three one-storey buildings. Directly behind the three parcels is open land followed by a treed area. The Site is zoned AM9, which is Arterial Mainstreet Zone as described under section 185-186 of the City of Ottawa Zoning by-laws.

The Zoning allows for the intended future use of the property.

6.2.2 Phase One Study Area

The Study Area consists primarily of residential and commercial properties.

6.3 Specific Observations at the Phase One Property

6.3.1 Structures and Other Improvements

The Site is currently occupied by three one-story commercial buildings and associated parking areas. The area around the buildings is used for concrete patio stone storage.

6.3.2 Below Ground Structures

No below ground structures were observed at the Site.

6.3.3 Storage Tanks

One former diesel above ground storage tank and one current propane above ground storage tank.

6.3.4 Hazardous Materials

Large quantity of efflorescence remover chemical.

6.3.5 Potable and Non-Potable Water Sources

Buildings are serviced by a well.

6.3.6 Underground Service Trenches

No underground service trenches were observed at the site.

6.3.7 Exit and Entry Points

All exit and entry points to the Site were inspected. No concerns were identified.

6.3.8 Existing and Former Heating Systems

The garage has a propane heater and the office has baseboard electrical heaters.

6.3.9 Cooling Systems

A portable window A/C unit was observed in the office building.

6.3.10 Drains, Pits, and Sumps

A floor drain was observed in the permanent building (former garage). The drain was observed to be filled with gravel. The discharge location of the drain is unknown.

6.3.11 Unidentified Substances

None observed.

6.3.12 Stains and/or Corrosion Near Drains, Pits, and Sumps

None observed.

6.3.13 Well Details

One well was observed at the Site.

6.3.14 Details of Sewage Works

A septic field was observed behind the buildings.

6.3.15 Ground Surface Details

Ground surface was primarily fine grained gravel with small areas of vegetation. No issues were identified with ground surface.

6.3.16 Current and Former Railway Lines

The site inspection did not indicate the presence of current or former rail lines at the Site or on adjacent properties.

6.3.17 Staining to Soil, Vegetation, or Pavement

Some staining on the gravel was observed with no apparent odour.

6.3.18 Stressed Vegetation

No stressed vegetation was observed.

6.3.19 Fill and Debris

Gravel to fill pot holes was observed during the site visit.

6.3.20 Mould

No mould-like substances were observed.

6.3.21 Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs)

No PCAs were observed during the site visit on August 1, 2018.

6.4 Surrounding Properties

Surrounding land use in the vicinity of the Site generally consisted of the following:

- North – Hazeldean Road, Carp Road, residential and commercial
- East – Residential
- South – Residential
- West – Hazeldean Road, commercial and residential

Two off-site PCA were observed during McIntosh Perry's site visit on August 1, 2018.

- 6250 Hazeldean Road – Petro Canada – Retail Fuel Outlet
- 1174 Carp Road – Open Roads RV – RV Dealership

The potential of these PCAs resulting in APECs for the Site is considered in Section 7.2.

7.0 REVIEW AND EVALUATION OF INFORMATION

The following sections provide a review, and evaluation and an interpretation of the information from the records review, interviews and site reconnaissance.

7.1 Current and Past Uses of Phase One Property

The following table summarizes the land use history of the subject Site:

Table 6: Current and Past Uses of the Phase One ESA Property

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1932	Not identified	Address not listed	Vacant	No Information
1932-1978	Not identified	Agricultural	Vacant	Earliest air photo (1932) shows the Site as vacant farm land
1978-1996	Not identified	Commercial	Unknown	Air photo from 1978 shows the Site developed to approximate current conditions.
1996-2007	Foran R V's Ltd	Commercial RV sales	Commercial	City Directories show the Site listed as commercial
2007-present	Techo-Bloc	Commercial concrete block sales and storage	Commercial	City Directories and site visit show the Site as commercial

7.2 Potentially Contaminating Activities

Two PCAs were identified at, on, or under the Site.

- 6310 Hazeldean Road
 - Above ground storage tank
 - Former RV service garage

Three off-site PCAs were identified in the Phase One ESA Study Area.

- 6250 Hazeldean Road
 - RV Dealership

- 1174 Carp Road
 - retail fuel outlet
- 1189 Carp Road
 - Oil Changers automotive garage
 - Commercial self-serve car wash

The above listed items are referenced on Figure 5.

7.3 Areas of Potential Environmental Concern (APEC)

The above noted on-site PCAs are considered to result in an APEC for the Site. Due to the limited information available for the previous use of the Site and presence of an automotive garage, it is possible that the operations have had impacts to the soil and groundwater in the vicinity of the garage and fuel storage tank.

The above noted Off-site PCA are areas of environmental concern that have the possibility of impacting on-site soil and groundwater conditions.

7.4 Phase One Conceptual Site Model

The Phase One Conceptual Site Model is based on information presented in the following Figures:

- Figure 2 shows structures and features on-site and those on properties immediately surrounding the Site.
- Figure 3 shows all other buildings and structures in the Phase One ESA study area
- Figure 4 shows drainage features in the local area.
- Figure 3 shows the names of all roads in the Phase One ESA study area.
- Figure 3 shows land use of properties adjacent to the subject property.
- Figure 5 shows areas where potentially contaminating activities (PCAs) have occurred and areas of potential environmental concern (APEC).

No areas of natural significance are present in the Phase One ESA study area.

Available topographic, surface drainage and hydrogeological information suggests that the direction of shallow groundwater flow is northward toward Feedmill Creek and from there to the Carp and Ottawa Rivers.

8.0 CONCLUSIONS

Two PCAs were identified at, on, or under the Site.

- 6310 Hazeldean Road
 - Above ground storage tank
 - Former RV service garage

Three off-site PCAs were identified in the Phase One ESA Study Area.

- 6250 Hazeldean Road
 - RV Dealership
- 1174 Carp Road
 - Retail fuel outlet
- 1189 Carp Road
 - Oil Changers automotive garage
 - Commercial self-serve car wash

The above noted on-site PCAs are considered to result in an APEC for the Site. Due to the limited information available for the previous use of the Site and presence of an automotive garage, it is possible that the operations have had impacts to the soil and groundwater in the vicinity of the garage and fuel storage tank.

The above noted Off-site PCA are areas of environmental concern that have the possibility of impacting on-site soil and groundwater conditions.

8.1 Is a Phase Two ESA Required?

Based on the presence of on-site PCAs resulting in APECs, ***a Phase Two ESA is recommended at this time*** to assess whether the historical presence of the RV service garage and aboveground fuel storage tank have impacted soil and groundwater quality at the Site.

9.0 LIMITATIONS

This report has been prepared, and the work referred to in this report has been undertaken by, McIntosh Perry Consulting Engineers Ltd. for Marco Recine and BBS Construction (Ontario) Ltd. It is intended for the sole and exclusive use of Marco Recine and BBS Construction. The report may not be relied upon by any other person or entity without the express written consent of McIntosh Perry Consulting Engineers Ltd. (in the form of a Reliance Letter).

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Some of the information presented in this report was provided through maps, air photographs, and environmental reports. While attempts were made, whenever possible, to obtain a minimum of two confirmatory sources of information, McIntosh Perry Consulting Engineers Ltd., has, in certain instances, been required to assume that the information provided is accurate.

The conclusions presented represent the best professional judgment of the assessor based on current environmental standards and on the site conditions observed during the site inspection on August 01, 2018. External areas of the properties were observed from the yard of 6310 Hazeldean Road and other publically accessible locations. Due to the nature of the investigation and the limited data available, the assessor cannot warrant against undiscovered environmental liabilities.

Should additional information become available, McIntosh Perry Consulting Engineers Ltd. requests that this information be brought to our attention so that we may re-assess the conclusions presented herein.

We trust that this information is satisfactory for your present requirements. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

McIntosh Perry Consulting Engineers



Stefan Holik
Environmental Technician



Daniel J. Arnott, P.Eng.
Geo-Environmental Engineer

f:\hazeldean\phase 1\Ocp-18-0052_phase one esa_6310 hazeldean road - dja edits.docx

10.0 REFERENCES

Canadian Standards Association (CSA), Z768-01: Phase I Environmental Site Assessment, CSA International, Toronto, 2001 (Updated 2003, Reaffirmed 2012).

EcoLog ERIS, 2018. Site-Specific Search Report Results.

Mississippi Valley Conservation Authority (MVCA), 2018. RVCA Regulations Mapping - <http://camaps.maps.arcgis.com/apps/webappviewer/index.html?id=70831905961e470988262c7a703a56af>

Natural Resources Canada (NRCAN), 2011. Geobase online mapping tool: Hydro Network GIS Data accessed through <<http://geobase.ca/geobase/en/viewer.jsp?group=nhn>>.

Ontario Geologic Survey (OGS), 2017 GIS Data for bedrock and surficial geology stratigraphy.

Ontario Ministry of Environment, Conservation and Parks (MECP), Ontario Regulation (O.Reg.) 153/04; Records of Site Condition – Part XV.1 of the Act (i.e. The Environmental Protection Act), as amended.

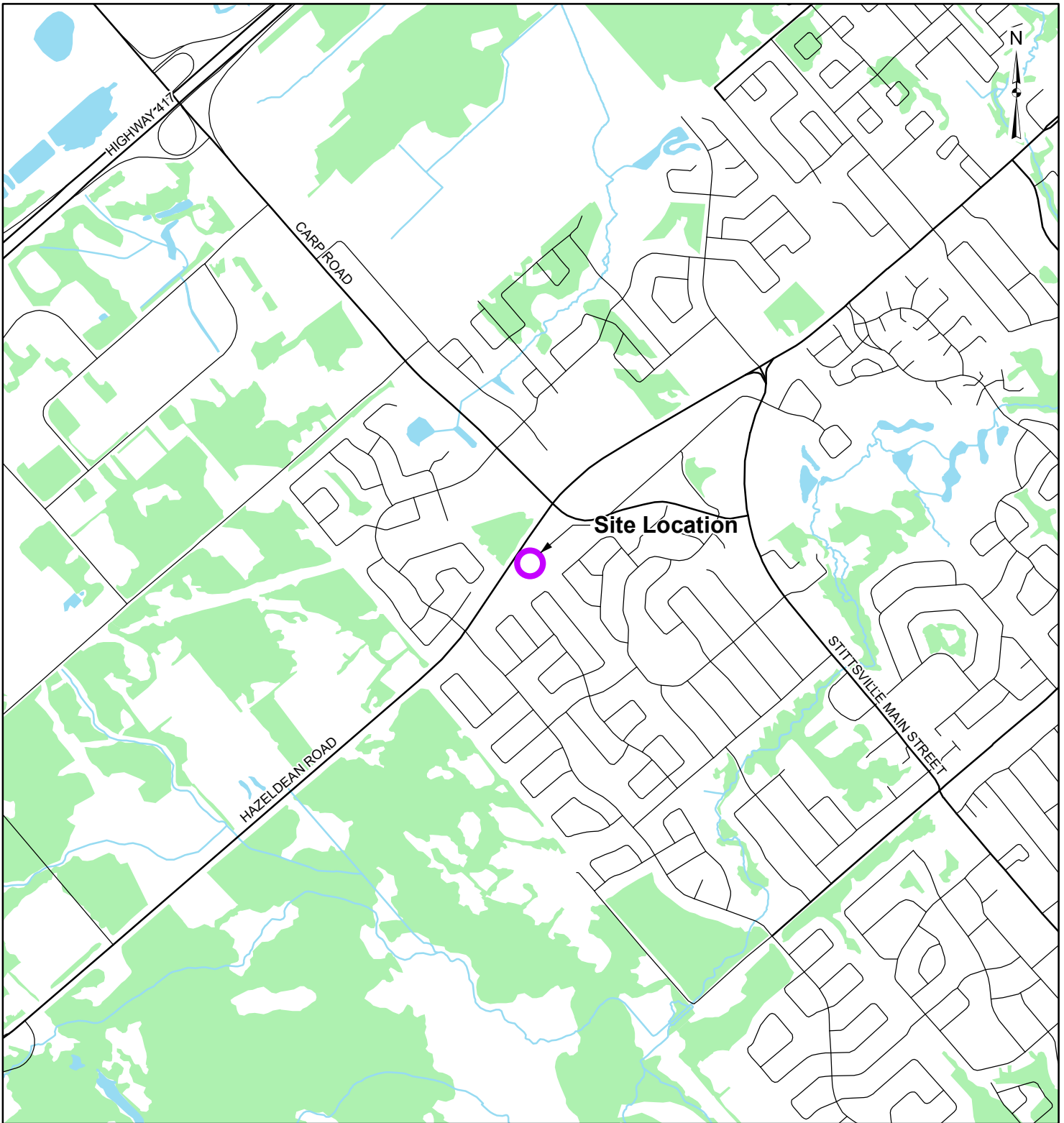
Ontario Geological Survey (OGS), 2017 – Google Earth™ (website: http://www.mndmf.gov.on.ca/mines/ogs_earth_e.asp).

Water and Earth Science Associates, 2008. 'Phase I Environmental Site Assessment, for 6310 Hazeldean Road, Stittsville, Ontario'.







PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



FIGURES



LEGEND

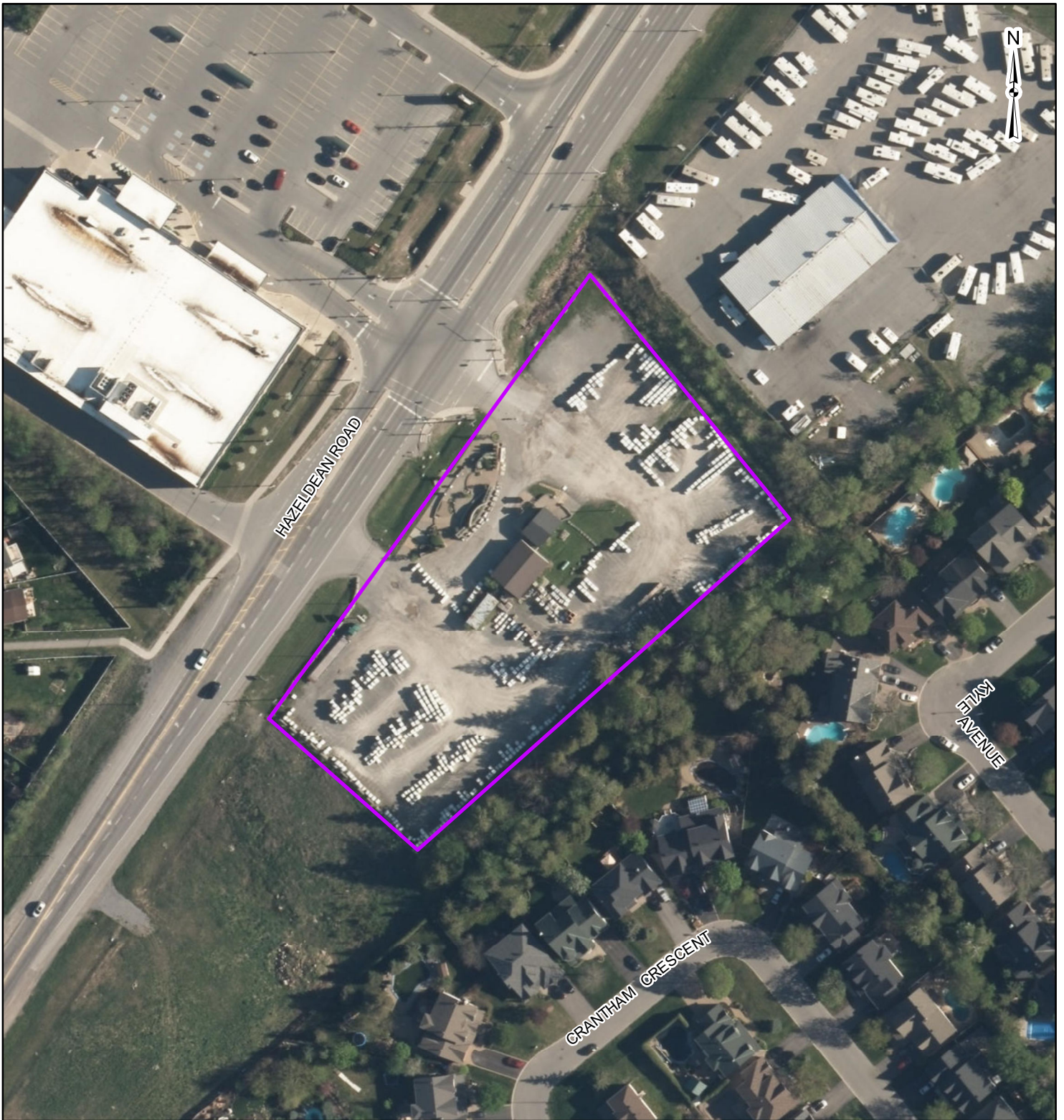
-  Site Location
-  Watercourse
-  Local Road
-  Waterbody
-  Major Road
-  Wooded Area

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.

CLIENT:	BBS CONSTRUCTION	
PROJECT:	PHASE 1 ESA 6310 HAZELDEAN	
TITLE:	SITE LOCATION	
McINTOSH PERRY 115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com	PROJECT NO:CP-18-0052	FIGURE:
	Date	Aug., 03, 2018
	GIS	JD
Checked By	BS	1

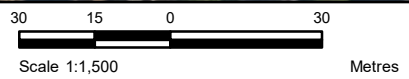
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HAZELDEAN ROAD

ETISH AVENUE

CRANTHAM CRESCENT



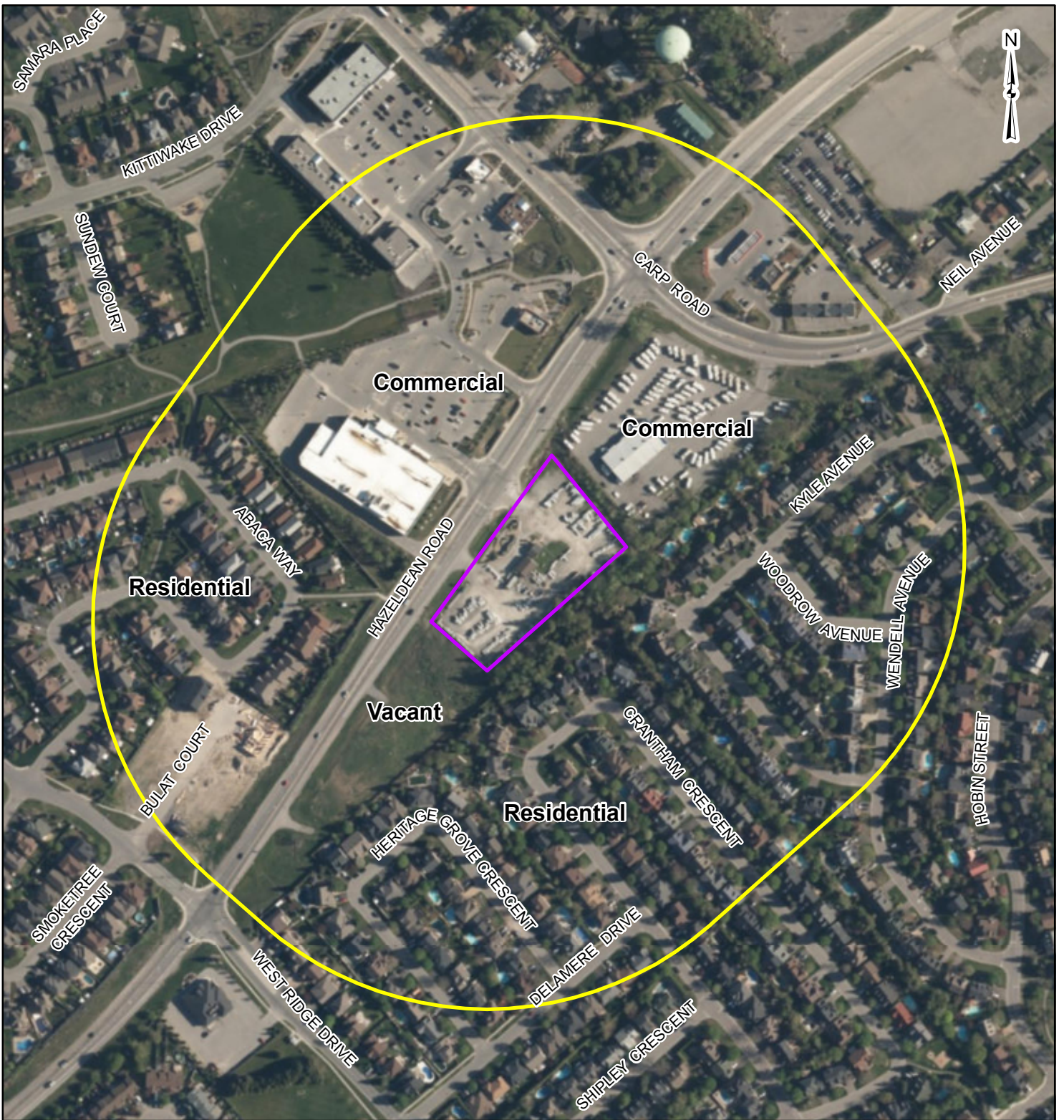
LEGEND

Approximate Site Boundary

REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.

CLIENT:	BBS CONSTRUCTION		
PROJECT:	PHASE 1 ESA 6310 HAZELDEAN		
TITLE:	SITE LAYOUT		
McINTOSH PERRY 115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com	PROJECT NO:CP-18-0052	FIGURE:	2
	Date	Aug., 03, 2018	
	GIS	JD	
	Checked By	BS	

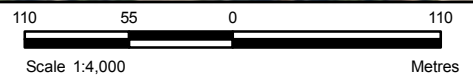


LEGEND

- Approximate Site Boundary
- 250m Buffer

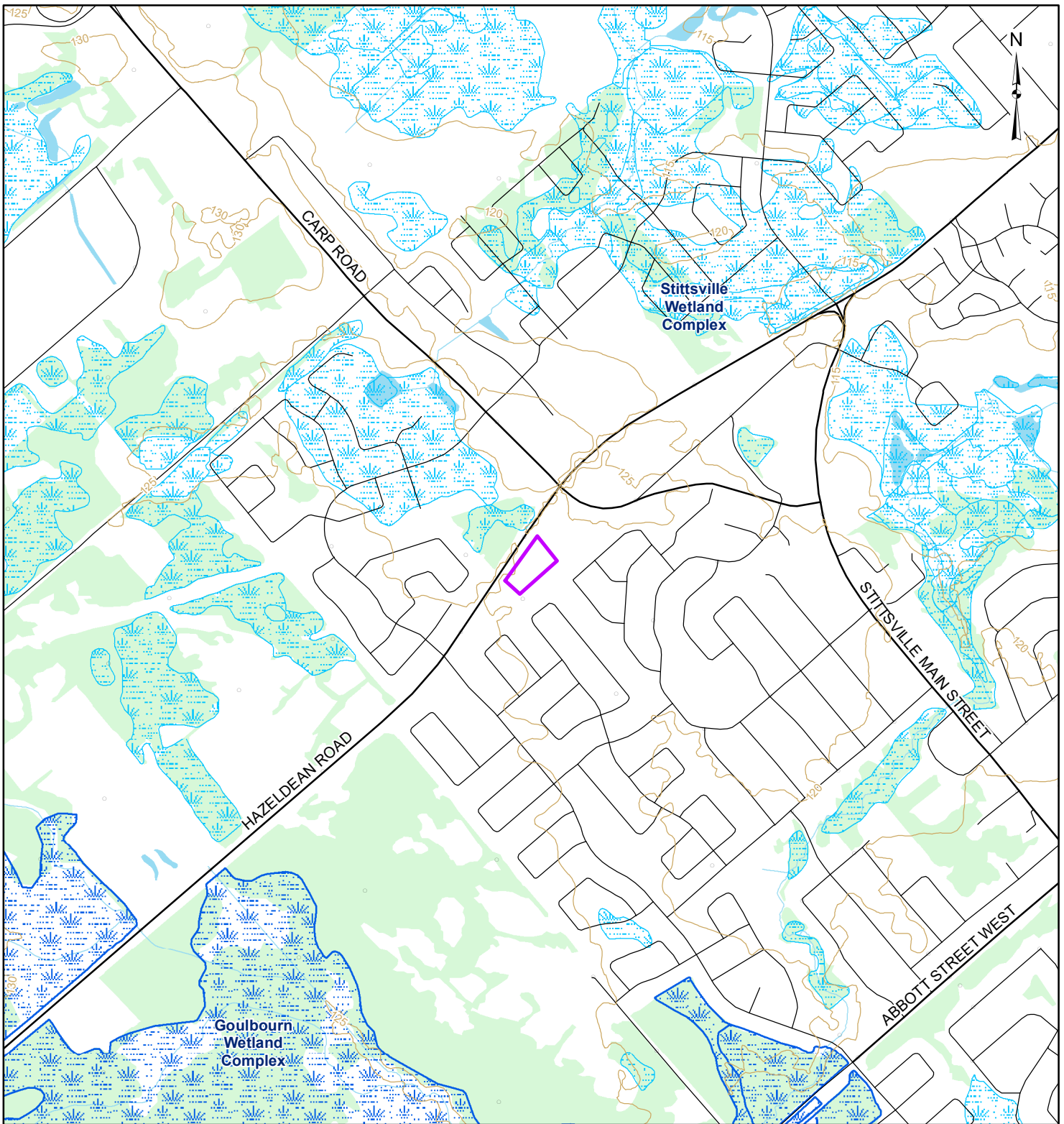
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GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.



CLIENT:	BBS CONSTRUCTION		
PROJECT:	PHASE 1 ESA 6310 HAZELDEAN		
TITLE:	STUDY AREA AND SURROUNDING LAND USE		
McINTOSH PERRY <small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>	PROJECT NO: CP-18-0052	FIGURE:	3
	Date	Aug., 17, 2018	
	GIS	JD	
	Checked By	BS	

H:\01 Project - Proposals\2018_Jobs\CP00CP-18-0052 BBS_Hazeldean_Retail_Buildings_6310_Hazeldean_Road\GIS\mxd\0CP-18-0052_03_SurroundingLandUse6310Hazeldean.mxd



LEGEND

- Site Boundary
- Watercourse
- Spot Height (masl)
- Waterbody
- Contour (masl)
- Provincially Significant Wetland
- Local Road
- Unevaluated Wetland
- Major Road
- Wooded Area

REFERENCE

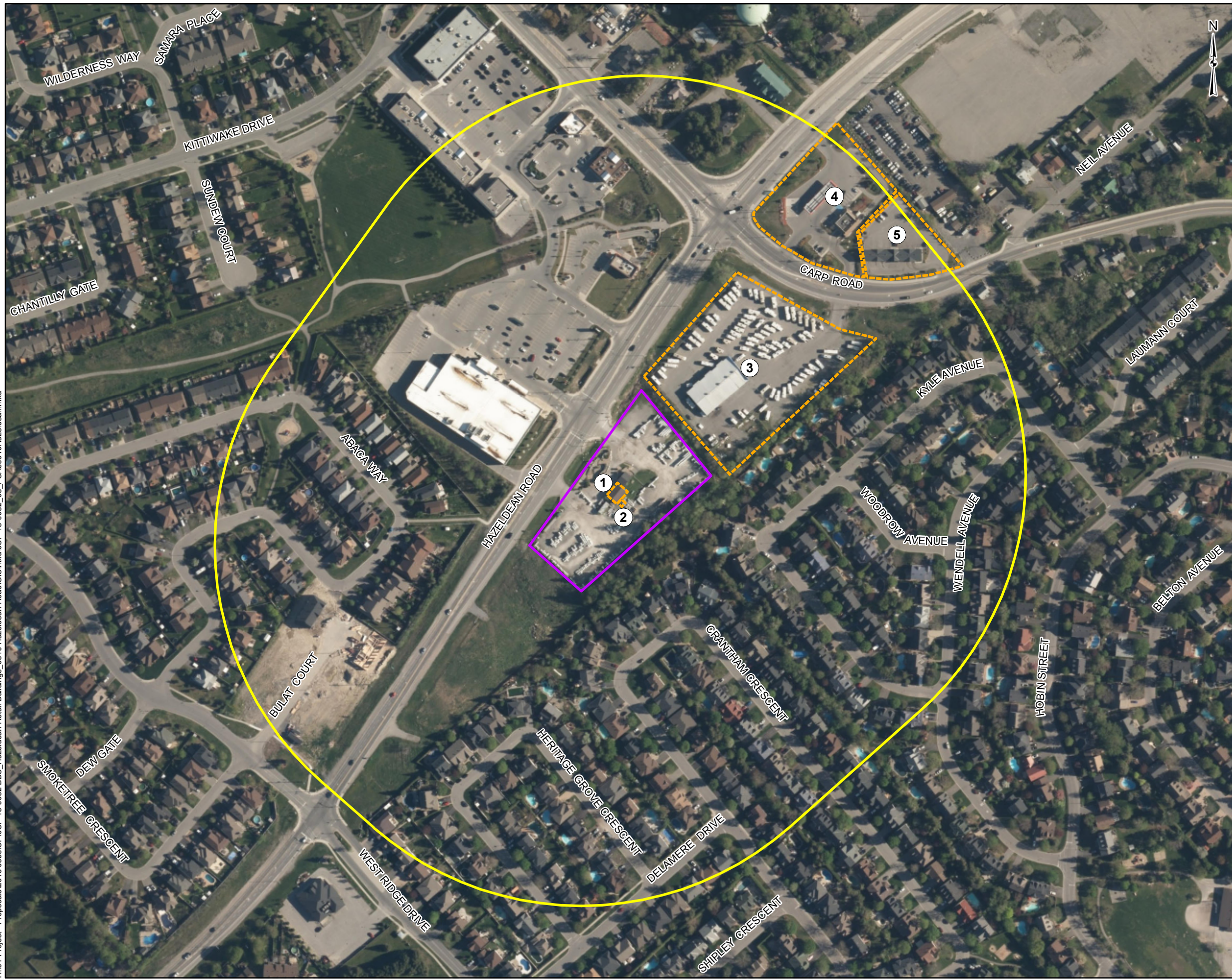
GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.

CLIENT:	BBS CONSTRUCTION	
PROJECT:	PHASE 1 ESA 6310 HAZELDEAN	
TITLE:	DRAINAGE AND TOPOGRAPHY	
	PROJECT NO: CP-18-0052	FIGURE:
	Date	Aug., 03, 2018
	GIS	JD
	Checked By	BS
	4	




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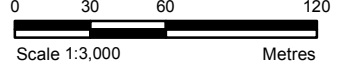
LEGEND

-  Site Boundary
 -  250m Buffer
 -  PCA
- 1** 6310 Hazeldean Road
- Former RV Garage
 - 2** 6310 Hazeldean Road
- Former Above Ground Fuel Storage Tank
 - 3** 1174 Carp Road
- RV Garage
 - 4** 1173 Carp Road
- Retail Fuel Outlet
 - 5** 1189 Carp Road
- Oil Changers Automotive Garage
- Commercial Self Serve Car Wash



REFERENCE

GIS data provided by the Ontario Ministry of Natural Resources and Forestry, 2018.



CLIENT:		BBS CONSTRUCTION	
PROJECT:		PHASE 1 ESA 6310 HAZELDEAN	
TITLE: POTENTIALLY CONTAMINATING ACTIVITIES (PCA'S) AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC'S)			
McINTOSH PERRY		PROJECT NO: CP-18-0052	FIGURE:
Date	Aug., 17, 2018	5	
GIS	JD		
Checked By	BS		
<small>115 Walgreen Road, RR3, Carp, ON K0A1L0 Tel: 613-836-2184 Fax: 613-836-3742 www.mcintoshperry.com</small>			

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



APPENDIX A – ECOLOG ERIS REPORT

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



DATABASE REPORT

Project Property: *Phase One ESA
6310 Hazeldean Road
Stittsville ON K2S 1B9
CP-18-0052*

Project No: *CP-18-0052*

Report Type: *Standard Report*

Order No: *20180725038*

Requested by: *McIntosh Perry Consulting Engineers*

Date Completed: *July 30, 2018*

**Environmental Risk
Information Services**
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: *Phase One ESA
6310 Hazeldean Road Stittsville ON K2S 1B9*

Project No: *CP-18-0052*

Coordinates:

Latitude: *45.265927*
Longitude: *-75.940278*
UTM Northing: *5,012,922.23*
UTM Easting: *426,235.37*
UTM Zone: *UTM Zone 18T*

Elevation: *393 FT
119.88 M*

Order Information:

Order No: *20180725038*
Date Requested: *July 25, 2018*
Requested by: *McIntosh Perry Consulting Engineers*
Report Type: *Standard Report*

Historical/Products:

Aerial Photographs *Aerials - National Collection - .tiff files*
City Directory Search *CD - Subject Site plus 5 Adjacent Properties*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	25	25
CA	<i>Certificates of Approval</i>	Y	0	3	3
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DRYCLEANERS	<i>Dry Cleaning Facilities</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	2	2
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	1	2	3
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EXP	<i>List of TSSA Expired Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	0	0
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>TSSA Incidents</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MISA PENALTY	<i>Environmental Penalty Annual Report</i>	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBW	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGW	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>TSSA Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	0	0
SPL	<i>Ontario Spills</i>	Y	0	0	0
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>TSSA Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	7	7
Total:			1	39	40

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	EHS		6310 Hazeldean Road Stittsville (Ottawa) ON K2S 1B9	SW/34.3	0.00	15

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
2	BORE		ON	WSW/50.5	0.14	15
3	BORE		ON	W/60.4	0.96	15
4	WWIS		lot 23 con 12 ON	NE/61.0	0.00	16
5	BORE		ON	W/65.2	0.96	18
6	BORE		ON	N/65.7	0.14	18
7	BORE		ON	N/72.6	1.08	19
8	BORE		ON	W/73.9	1.00	19
9	BORE		ON	N/80.0	1.08	20
10	BORE		ON	NNW/89.2	1.00	20
11	BORE		ON	N/101.0	0.96	21
12	BORE		ON	SSW/105.5	0.00	21
12	WWIS		lot 22 con 12 ON	SSW/105.5	0.00	21
13	ECA	Sobeys Capital Incorporated as General Partner for Sobeys Developments Limited	Partnership; 6303 Hazeldean Rd Lot 1/2 of 23, Concession 12, Part 86, 112 & 119, Ref. Plan 4M-1089 Ottawa ON L4V 1W5	NW/144.2	2.02	24
14	BORE		ON	NNE/161.3	1.00	24
15	EHS		Concession 12, Part Lot 22, Parts 27 & 32 Ottawa ON	SW/163.2	0.00	25
16	BORE		ON	NNE/163.5	1.00	25
17	BORE		ON	NNE/164.4	1.00	25
18	BORE		ON	NNE/166.9	1.00	26
19	BORE		ON	NNE/167.8	1.00	26
20	BORE		ON	N/174.1	1.00	27
21	WWIS		lot 23 con 12 ON	NNE/174.9	0.31	27
22	EHS		6315 Hazeldean Rd and 1140 Carp Road Ottawa ON K2S0T2	N/184.4	1.00	29
23	WWIS		lot 23 con 12 ON	NNE/193.1	0.85	30

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
24	BORE		ON	NNE/202.9	1.00	31
25	BORE		ON	NNE/205.0	1.00	32
26	BORE		ON	NNE/207.0	1.00	32
27	BORE		ON	NNE/216.4	1.00	33
28	BORE		ON	NNE/218.4	1.00	33
29	CA	R.M. OF OTTAWA-CARLETON	HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	NNE/222.7	1.00	34
29	CA	R.M. OF OTTAWA-CARLETON	HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	NNE/222.7	1.00	34
29	CA	City of Ottawa	Hazeldean Road & Carp Road Ottawa ON	NNE/222.7	1.00	34
30	BORE		ON	NNE/223.8	1.00	34
31	ECA	City of Ottawa	Hazeldean Road & Carp Road Ottawa ON K1P 1J1	NNE/226.8	1.00	35
32	BORE		ON	NNE/230.6	1.00	35
33	WWIS		lot 23 con 12 ON	N/231.8	1.00	35
34	BORE		ON	NNE/231.9	1.00	38
35	WWIS		ON	NE/233.0	0.00	38
36	BORE		ON	NE/249.3	0.00	41
37	WWIS		lot 23 con 12 ON	NE/250.0	0.00	41

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 25 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
ON		WSW	50.47	<u>2</u>
ON		W	60.41	<u>3</u>
ON		W	65.19	<u>5</u>
ON		N	65.71	<u>6</u>
ON		N	72.57	<u>7</u>
ON		W	73.94	<u>8</u>
ON		N	80.03	<u>9</u>
ON		NNW	89.21	<u>10</u>
ON		N	100.96	<u>11</u>
ON		SSW	105.52	<u>12</u>
ON		NNE	161.35	<u>14</u>
ON		NNE	163.53	<u>16</u>
ON		NNE	164.41	<u>17</u>
ON		NNE	166.90	<u>18</u>
ON		NNE	167.80	<u>19</u>
ON		N	174.11	<u>20</u>
ON		NNE	202.87	<u>24</u>
ON		NNE	205.00	<u>25</u>
ON		NNE	207.05	<u>26</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	NNE	216.38	27
	ON	NNE	218.36	28
	ON	NNE	223.79	30
	ON	NNE	230.62	32
	ON	NNE	231.89	34
	ON	NE	249.27	36

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 3 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
R.M. OF OTTAWA-CARLETON	HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	NNE	222.67	29
City of Ottawa	Hazeldean Road & Carp Road Ottawa ON	NNE	222.67	29
R.M. OF OTTAWA-CARLETON	HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	NNE	222.67	29

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jun 30, 2018 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Sobeys Capital Incorporated as General Partner for Sobeys Developments Limited	Partnership; 6303 Hazeldean Rd Lot 1/2 of 23, Concession 12, Part 86, 112 &119, Ref. Plan 4M-1089 Ottawa ON L4V 1W5	NW	144.18	13
City of Ottawa	Hazeldean Road & Carp Road Ottawa ON K1P 1J1	NNE	226.83	31

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2018 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

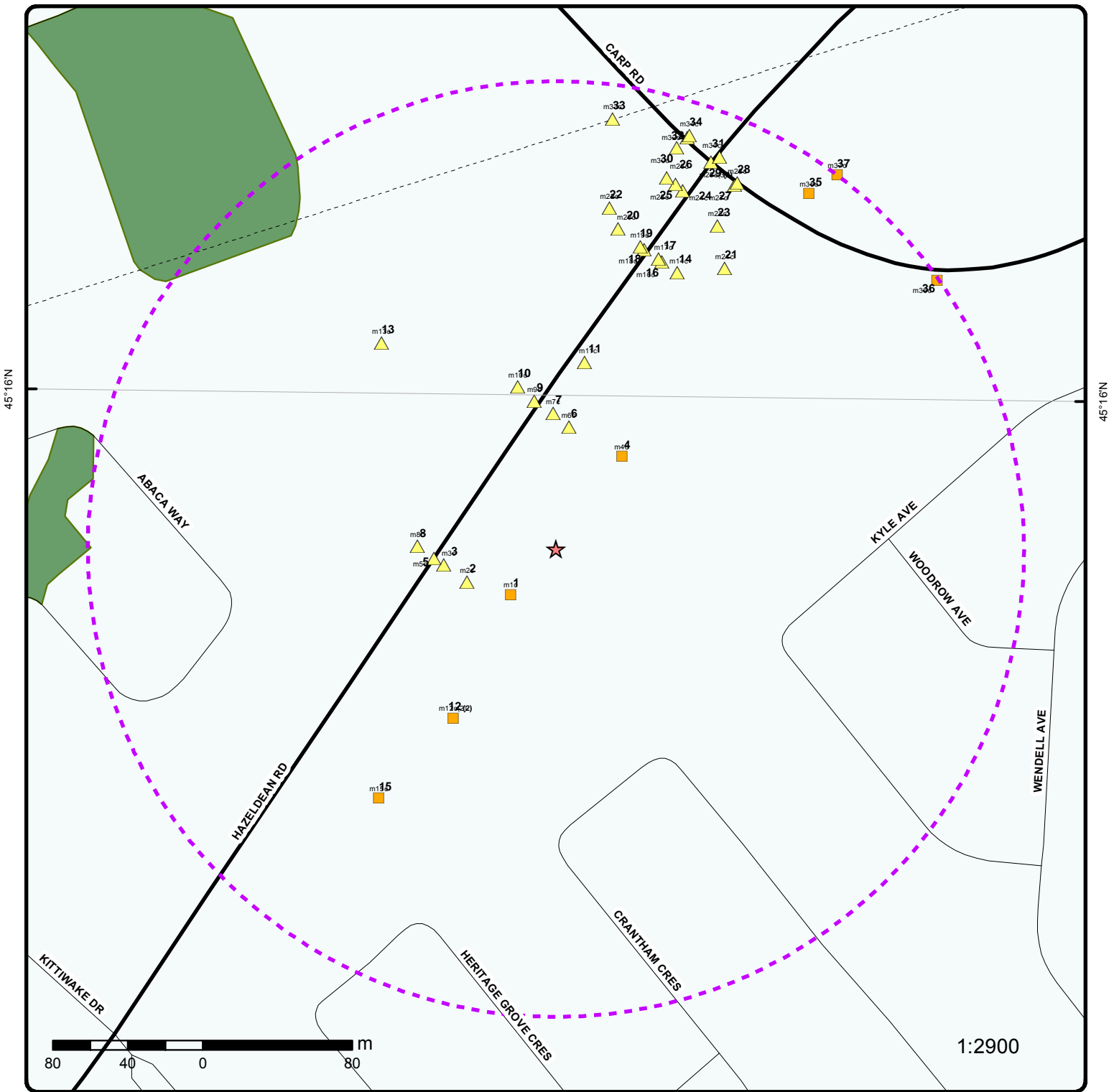
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	6310 Hazeldean Road Stittsville (Ottawa) ON K2S 1B9	SW	34.32	1
	Concession 12, Part Lot 22, Parts 27 & 32 Ottawa ON	SW	163.21	15

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	6315 Hazeldean Rd and 1140 Carp Road Ottawa ON K2S0T2	N	184.44	22

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 7 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 23 con 12 ON	NE	60.98	4
	lot 22 con 12 ON	SSW	105.52	12
	lot 23 con 12 ON	NNE	174.85	21
	lot 23 con 12 ON	NNE	193.10	23
	lot 23 con 12 ON	N	231.75	33
	ON	NE	233.02	35
	lot 23 con 12 ON	NE	249.95	37



Map : 0.25 Kilometer Radius

Order No: 20180725038

Address: 6310 Hazeldean Road, Stittsville, ON, K2S 1B9

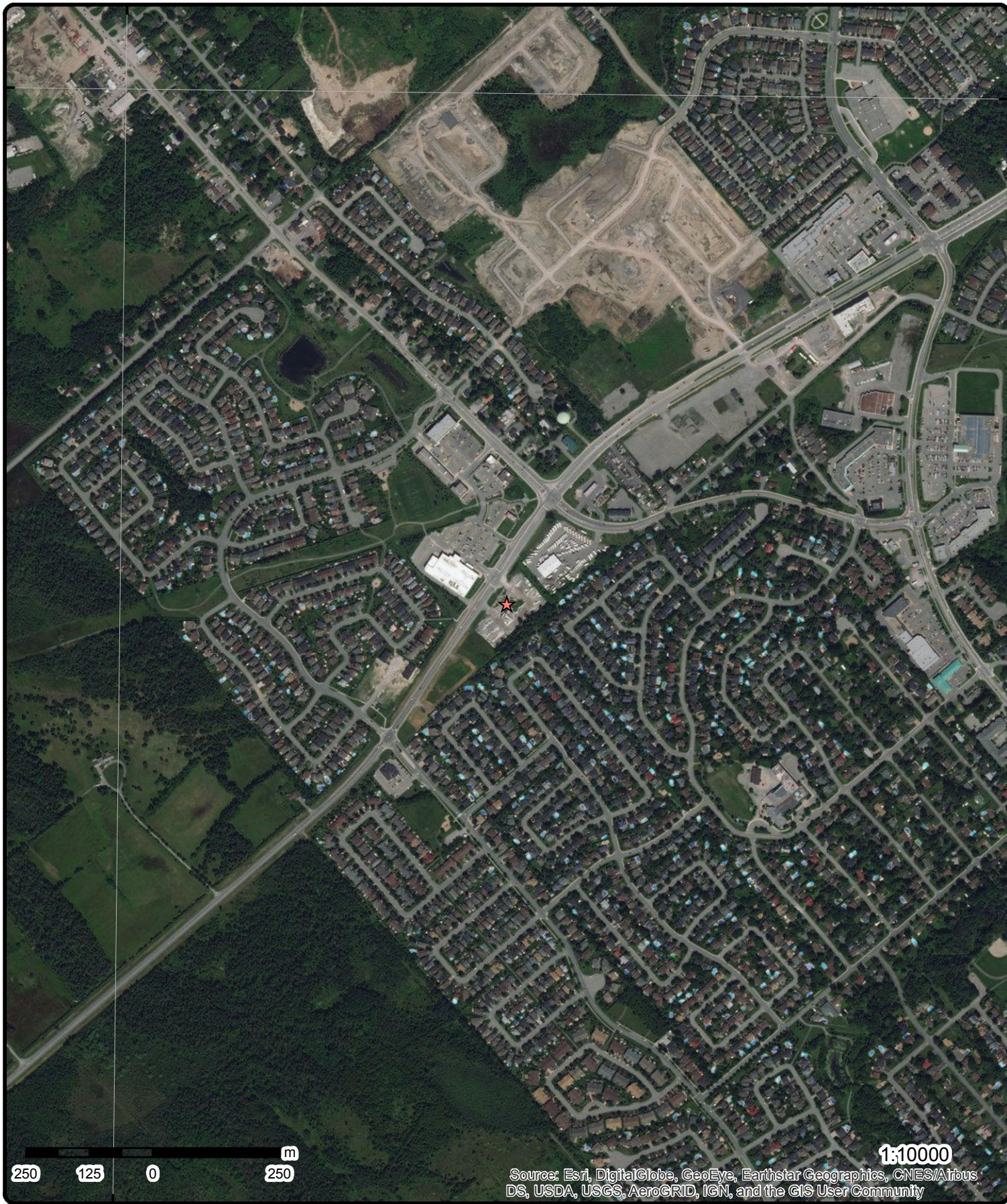


- | | | | |
|-----------------------------------|----------------------|-----------------------------------|--------------------------------|
| Project Property | Expressway | Industrial and Resource - Regions | National Park |
| Buffer Outline | Principal Highway | Main Line | Provincial or Territorial 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 | | |

75°57'W

45°16'30"N

45°16'30"N



250 125 0 250 m

1:10000

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial (2017)

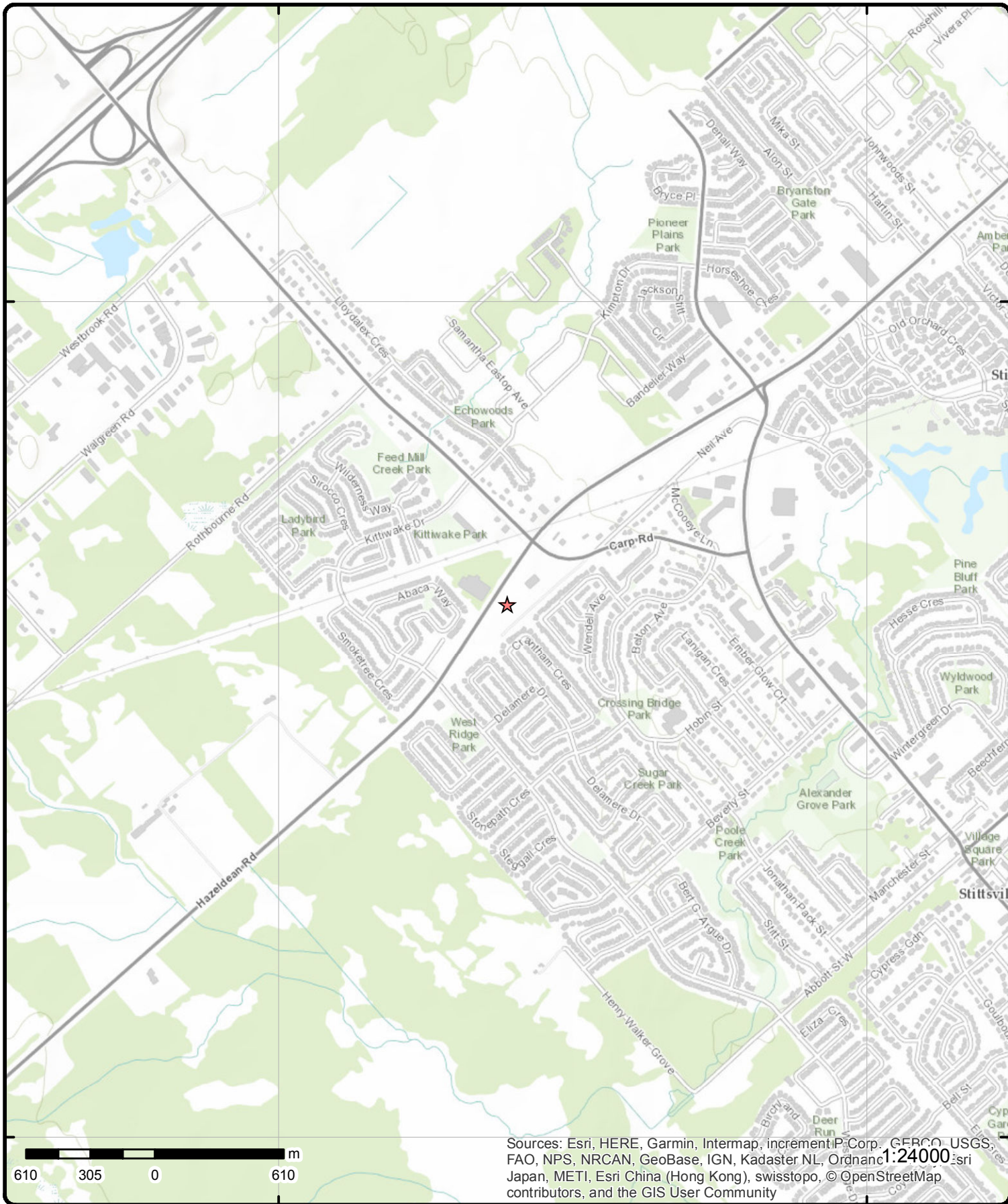
Address: 6310 Hazeldean Road, Stittsville, ON, K2S 1B9

Source: ESRI World Imagery

Order No: 20180725038



© ERIS Information Limited Partnership



Topographic Map

Address: 6310 Hazeldean Road, Stittsville, ON, K2S 1B9

Source: ESRI World Topographic Map

Order No: 20180725038



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	SW/34.3	119.9 / 0.00	6310 Hazeldean Road Stittsville (Ottawa) ON K2S 1B9	EHS
Order ID: 124759 Order No: 20080114036 Customer ID: 54167 Company ID: 5 Status: C Report Code: 3CAN Report Type: Complete Report Report Date: 1/18/2008 Report Requested by: WESA Nearest Intersection: Hazeldean and Carp Road Previous Site Name: Additional Info Ordered:		Date Received: 1/14/2008 Lot/Building Size: unknown Municipality: City of Ottawa (former Twp of Goulbourn) Client Prov/State: ON Search Radius (km): 0.25 Large Radius: 2 X: -75.940583 Y: 45.265706			
<u>2</u>	1 of 1	WSW/50.5	120.0 / 0.14	ON	BORE
Borehole ID: 808675 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 426188.1 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .8 Township:: Lot:: Completion Date:: 10-MAY-2004 Primary Water Use::		Type: Borehole Status:: UTM Zone:: 18 Northing:: 5012904.61 Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 125 Primary Name:: AH 04-72 Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			
--Details-- Stratum ID: 218597335 Bottom Depth(m): 0.3 Stratum ID: 218597336 Bottom Depth(m): 0.8		Top Depth(m): 0.0 Stratum Desc: Topsoil Top Depth(m): 0.3 Stratum Desc: Brown Sand With: Si			
<u>3</u>	1 of 1	W/60.4	120.8 / 0.96	ON	BORE
Borehole ID: 808674 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 426175.52 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: 10-MAY-2004 Primary Water Use::		Type: Borehole Status:: UTM Zone:: 18 Northing:: 5012913.84 Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 125 Primary Name:: AH 04-71 Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
--Details--					
Stratum ID:	218597331			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	Asphalt
Stratum ID:	218597332			Top Depth(m):	0.3
Bottom Depth(m):	0.4			Stratum Desc:	Brown Base Sand - Gravel
Stratum ID:	218597333			Top Depth(m):	0.4
Bottom Depth(m):	0.8			Stratum Desc:	Brown Subbase Sand With: Gr
Stratum ID:	218597334			Top Depth(m):	0.8
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand - Gravel Occasional: Cob

<u>4</u>	1 of 1	NE/61.0	119.9 / 0.00	lot 23 con 12 ON	WWIS
Well ID:	1509719			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	4/22/1968
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3553
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
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:					

Bore Hole Information

Bore Hole ID:	10031751			Elevation:	119.91
DP2BR:	11			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	426270.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5012972
Cluster Kind:				UTMRC:	5
Date Completed:	08-MAR-68			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID:	931012882
Layer:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:			09		
Most Common Material:			MEDIUM SAND		
Mat2:			11		
Other Materials:			GRAVEL		
Mat3:			13		
Other Materials:			BOULDERS		
Formation Top Depth:			0		
Formation End Depth:			11		
Formation End Depth UOM:			ft		
Formation ID: 931012883					
Layer:			2		
Color:					
General Color:					
Mat1:			15		
Most Common Material:			LIMESTONE		
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:			11		
Formation End Depth:			73		
Formation End Depth UOM:			ft		
<u>Method of Construction & Well Use</u>					
Method Construction ID:			961509719		
Method Construction Code:			1		
Method Construction:			Cable Tool		
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:			10580321		
Casing No:			1		
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:			930056139		
Layer:			2		
Material:			4		
Open Hole or Material:			OPEN HOLE		
Depth From:					
Depth To:			73		
Casing Diameter:			5		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
Casing ID: 930056138					
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:			23		
Casing Diameter:			5		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Results of Well Yield Testing

Pump Test ID: 991509719
Pump Set At:
Static Level: 2
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 7
Flowing Rate:
Recommended Pump Rate: 6
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

Water Details

Water ID: 933464611
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

5 1 of 1 **W/65.2** **120.8 / 0.96** **ON** **BORE**

Borehole ID: 808673	Type: Borehole
Use: Geotechnical/Geological Investigation	Status::
Drill Method:: Hand auger	UTM Zone:: 18
Easting:: 426170.36	Northing:: 5012916.94
Location Accuracy::	Orig. Ground Elev m:: -999.9
Elev. Reliability Note::	DEM Ground Elev m:: 125
Total Depth m:: 1.5	Primary Name:: AH 04-70
Township::	Concession::
Lot::	Municipality:
Completion Date:: 10-MAY-2004	Static Water Level:: -999.9
Primary Water Use::	Sec. Water Use::

--Details--

Stratum ID: 218597327	Top Depth(m): 0.0
Bottom Depth(m): 0.3	Stratum Desc: Asphalt
Stratum ID: 218597328	Top Depth(m): 0.3
Bottom Depth(m): 0.4	Stratum Desc: Brown Base Sand - Gravel
Stratum ID: 218597329	Top Depth(m): 0.4
Bottom Depth(m): 0.7	Stratum Desc: Brown Subbase Sand With: Gr
Stratum ID: 218597330	Top Depth(m): 0.7
Bottom Depth(m): 1.5	Stratum Desc: Brown Sand With: Gr W Cob

6 1 of 1 **N/65.7** **120.0 / 0.14** **ON** **BORE**

Borehole ID: 808671	Type: Borehole
Use: Geotechnical/Geological Investigation	Status::

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426242.3			Northing::	5012987.6
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	.3			Primary Name::	AH 04-68
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597322			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	Topsoil
Stratum ID:	218597323			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	Brown Fill-Misc Silt - Sand With: Gr W Org M

<u>7</u>	1 of 1	N/72.6	121.0 / 1.08	ON	BORE
Borehole ID:	808670			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426233.8			Northing::	5012994.75
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-67
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597319			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Grey Crushed Stone BASE
Stratum ID:	218597320			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	Grey Crushed Stone SUBBASE
Stratum ID:	218597321			Top Depth(m):	0.3
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand - Gravel

<u>8</u>	1 of 1	W/73.9	120.9 / 1.00	ON	BORE
Borehole ID:	808672			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426161.49			Northing::	5012923.6
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	125
Total Depth m::	.8			Primary Name::	AH 04-69
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597324			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Topsoil

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum ID:	218597325			Top Depth(m):	0.1
Bottom Depth(m):	0.3			Stratum Desc:	Brown Fill-Misc Sand Trace: Constr Debris
Stratum ID:	218597326			Top Depth(m):	0.3
Bottom Depth(m):	0.8			Stratum Desc:	Brown sand silt Trace: Gr
9	1 of 1	N/80.0	121.0 / 1.08	ON	BORE
Borehole ID:	808669			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426224.02			Northing::	5013001.43
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-66
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597315			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Grey Crushed Stone BASE
Stratum ID:	218597316			Top Depth(m):	0.1
Bottom Depth(m):	0.2			Stratum Desc:	Brown Subbase Sand - Gravel
Stratum ID:	218597317			Top Depth(m):	0.2
Bottom Depth(m):	0.7			Stratum Desc:	Brown Fill-Misc Sand With: Gr
Stratum ID:	218597318			Top Depth(m):	0.7
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand With: Gr Occasional: Cob
10	1 of 1	NNW/89.2	120.9 / 1.00	ON	BORE
Borehole ID:	808668			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426215.1			Northing::	5013009.1
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	121
Total Depth m::	.9			Primary Name::	AH 04-65
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597312			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	Topsoil
Stratum ID:	218597313			Top Depth(m):	0.4
Bottom Depth(m):	0.4			Stratum Desc:	Brown Sand
Stratum ID:	218597314			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	Brown-Grey Silt - Sand

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	N/101.0	120.8 / 0.96	ON	BORE
Borehole ID:	609557			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	426251			Northing::	5013022
Location Accuracy::				Orig. Ground Elev m::	124
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	-999			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	AUG-1970			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218383503			Top Depth(m):	0.0
Bottom Depth(m):	6.1			Stratum Desc:	UNSPECIFIED. SEISMIC VELOCITY = 2000.
Stratum ID:	218383504			Top Depth(m):	6.1
Bottom Depth(m):				Stratum Desc:	BEDROCK. SEISMIC VELOCITY = 10000. N. 00101ISMIC VELOCITY = 22300. BEDROCK. SEISMIC VE
12	1 of 2	SSW/105.5	119.9 / 0.00	ON	BORE
Borehole ID:	609551			Type:	Borehole
Use:				Status::	
Drill Method::				UTM Zone::	18
Easting::	426181			Northing::	5012832
Location Accuracy::				Orig. Ground Elev m::	124
Elev. Reliability Note::				DEM Ground Elev m::	124
Total Depth m::	23.2			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	MAY-1968			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218383491			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	CLAY,SAND.
Stratum ID:	218383492			Top Depth(m):	0.6
Bottom Depth(m):	2.7			Stratum Desc:	GRAVEL,BOULDERS.
Stratum ID:	218383493			Top Depth(m):	2.7
Bottom Depth(m):	23.2			Stratum Desc:	LIMESTONE. GREY. 00069004800085NE. BROWN. 00101ISMIC VELOCITY = 22300. BEDROCK. SE
12	2 of 2	SSW/105.5	119.9 / 0.00	lot 22 con 12 ON	WWIS
Well ID:	1509711			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	6/3/1968
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3553

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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:				Form Version: 1 Owner: Street Name: County: OTTAWA-CARLETON Municipality: GOULBOURN TOWNSHIP Site Info: Lot: 022 Concession: 12 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID: 10031743 DP2BR: 9 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 08-MAY-68 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:				Elevation: 124.24 Elevrc: Zone: 18 East83: 426180.6 Org CS: North83: 5012832 UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5	
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 931012859 Layer: 3 Color: 2 General Color: GREY Mat1: 15 Most Common Material: LIMESTONE Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: 9 Formation End Depth: 76 Formation End Depth UOM: ft					
Formation ID: 931012858 Layer: 2 Color: General Color: Mat1: 11 Most Common Material: GRAVEL Mat2: 13 Other Materials: BOULDERS Mat3: Other Materials: Formation Top Depth: 2 Formation End Depth: 9 Formation End Depth UOM: ft					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931012857			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		09			
Other Materials:		MEDIUM SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		2			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961509711			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10580313			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930056122			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930056123			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		76			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991509711			
Pump Set At:					
Static Level:		5			
Final Level After Pumping:		39			
Recommended Pump Depth:		50			
Pumping Rate:		10			
Flowing Rate:					
Recommended Pump Rate:		9			
Levels UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Rate UOM: Water State After Test Code: Water State After Test: Pumping Test Method: Pumping Duration HR: Pumping Duration MIN: Flowing:		GPM 1 CLEAR 1 2 0 N			
<u>Water Details</u>					
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933464602 1 1 FRESH 42 ft			
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM:		933464603 2 1 FRESH 69 ft			
13	1 of 1	NW/144.2	121.9 / 2.02	Sobeys Capital Incorporated as General Partner for Sobeys Developments Limited Partnership; 6303 Hazeldean Rd Lot 1/2 of 23, Concession 12, Part 86, 112 & 119, Ref. Plan 4M-1089 Ottawa ON L4V 1W5	ECA
Approval No: Approval Date: Status: Record Type: Link Source: Approval Type: Project Type: Address: Full Address: Full PDF Link:		7773-8EMKSV 2011-03-31 Approved ECA IDS ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS 6303 Hazeldean Rd Lot 1/2 of 23, Concession 12, Part 86, 112 & 119, Ref. Plan 4M-1089 https://www.accessenvironment.ene.gov.on.ca/instruments/0903-8DYLXS-14.pdf		SWP Area Name: MOE District: City: Longitude: Latitude:	Ottawa
14	1 of 1	NNE/161.3	120.9 / 1.00	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::		808667 Geotechnical/Geological Investigation Hand auger 426300.17 .9 10-MAY-2004		Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole 18 5013070.01 -999.9 121 AH 04-64 -999.9
--Details--					
Stratum ID: Bottom Depth(m):		218597309 0.1		Top Depth(m): Stratum Desc:	0.0 Topsoil
Stratum ID:		218597310		Top Depth(m):	0.1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bottom Depth(m):	0.4			Stratum Desc:	Brown sand silt Trace: Cl
Stratum ID:	218597311			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	Brown Sand Trace: Cl

<u>15</u>	1 of 1	SW/163.2	119.9 / 0.00	Concession 12, Part Lot 22, Parts 27 & 32 Ottawa ON	EHS
Order ID:	321369			Date Received:	20-JUN-14
Order No:	20140620058			Lot/Building Size:	
Customer ID:	53367			Municipality:	
Company ID:	25907			Client Prov/State:	ON
Status:	C			Search Radius (km):	.25
Report Code:	2CAN			Large Radius:	.3
Report Type:	Standard Select Report			X:	-75.941463
Report Date:	03-JUL-14			Y:	45.26472
Report Requested by:	LRL Associates Ltd.				
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; Topographic Maps; City Directory; Aerial Photos				

<u>16</u>	1 of 1	NNE/163.5	120.9 / 1.00	ON	BORE
Borehole ID:	808666			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426291.96			Northing::	5013075.66
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-63
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597306			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Grey Crushed Stone BASE
Stratum ID:	218597307			Top Depth(m):	0.1
Bottom Depth(m):	0.7			Stratum Desc:	Brown Subbase Sand With: Gr Trace: Org M
Stratum ID:	218597308			Top Depth(m):	0.7
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand - Gravel Occasional: Cob

<u>17</u>	1 of 1	NNE/164.4	120.9 / 1.00	ON	BORE
Borehole ID:	808665			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426290.18			Northing::	5013077.2
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-62
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
--Details--					
Stratum ID:	218597302			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Asphalt
Stratum ID:	218597303			Top Depth(m):	0.2
Bottom Depth(m):	0.3			Stratum Desc:	Brown Base Sand - Gravel
Stratum ID:	218597304			Top Depth(m):	0.3
Bottom Depth(m):	0.6			Stratum Desc:	Brown Subbase Sand With: Gr
Stratum ID:	218597305			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand - Gravel

18	1 of 1	NNE/166.9	120.9 / 1.00	ON	BORE
Borehole ID:	808664			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426282.59			Northing::	5013082.34
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-61
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597299			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	Asphalt
Stratum ID:	218597300			Top Depth(m):	0.4
Bottom Depth(m):	0.9			Stratum Desc:	Brown Base Sand - Gravel
Stratum ID:	218597301			Top Depth(m):	0.9
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand With: Gr Occasional: Cob

19	1 of 1	NNE/167.8	120.9 / 1.00	ON	BORE
Borehole ID:	808663			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426280.27			Northing::	5013083.88
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	120
Total Depth m::	1.5			Primary Name::	AH 04-60
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597295			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Grey Crushed Stone BASE
Stratum ID:	218597296			Top Depth(m):	0.1
Bottom Depth(m):	0.4			Stratum Desc:	Brown Subbase Sand - Gravel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stratum ID:	218597297			Top Depth(m):	0.4
Bottom Depth(m):	0.8			Stratum Desc:	Brown Fill-Misc Sand With: Gr
Stratum ID:	218597298			Top Depth(m):	0.8
Bottom Depth(m):	1.5			Stratum Desc:	Brown Sand With: Gr W Cob
20	1 of 1	N/174.1	120.9 / 1.00	ON	BORE
Borehole ID:	808662			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Hand auger			UTM Zone::	18
Easting::	426268.57			Northing::	5013093.1
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	121
Total Depth m::	.9			Primary Name::	AH 04-59
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	10-MAY-2004			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218597292			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Dark Brown Topsoil sand silt With: Org M
Stratum ID:	218597293			Top Depth(m):	0.2
Bottom Depth(m):	0.5			Stratum Desc:	Light Brown Sand
Stratum ID:	218597294			Top Depth(m):	0.5
Bottom Depth(m):	0.9			Stratum Desc:	Brown Till Silt - Sand With: Gr Trace: Cl
21	1 of 1	NNE/174.9	120.2 / 0.31	lot 23 con 12 ON	WWIS
Well ID:	1514019			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	5/27/1974
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1836
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
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:					
Bore Hole Information					
Bore Hole ID:	10036001			Elevation:	123.51
DP2BR:	15			Elevrc:	
Spatial Status:				Zone:	18

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB:	r			East83:	426325.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5013072
Cluster Kind:				UTMRC:	4
Date Completed:	11-FEB-74			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock
Materials Interval

Formation ID: 931025106
Layer: 3
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 15
Formation End Depth: 552
Formation End Depth UOM: ft

Formation ID: 931025105
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 7
Formation End Depth: 15
Formation End Depth UOM: ft

Formation ID: 931025104
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961514019
Method Construction Code: 4
Method Construction: Rotary (Air)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Other Method Construction:

Pipe Information

Pipe ID: 10584571
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930063598
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991514019
Pump Set At:
Static Level: 8
Final Level After Pumping: 90
Recommended Pump Depth: 90
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 8
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

Water Details

Water ID: 933469792
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 520
Water Found Depth UOM: ft

<u>22</u>	1 of 1	N/184.4	120.9 / 1.00	6315 Hazeldean Rd and 1140 Carp Road Ottawa ON K2S0T2	EHS
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Order ID: 272759 Order No: 20130920008 Customer ID: 96607 Company ID: 333 Status: C Report Code: 3CAN Report Type: Standard Report Report Date: 30-SEP-13 Report Requested by: AMEC Environment & Infrastructure Nearest Intersection:	Date Received: 20-SEP-13 Lot/Building Size: 2200 sq ft (part of much larger development) Municipality: see attached Client Prov/State: ON Search Radius (km): .25 Large Radius: 2 X: -75.939939 Y: 45.26757
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Previous Site Name:		Unknown			
Additional Info Ordered:		City Directory			

23	1 of 1	NNE/193.1	120.7 / 0.85	lot 23 con 12 ON	WWIS
Well ID:	1514020			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:				Date Received:	5/27/1974
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Supply			Abandonment Rec:	
Water Type:				Contractor:	1836
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
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:					

Bore Hole Information

Bore Hole ID:	10036002	Elevation:	122.86
DP2BR:	15	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426321.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5013095
Cluster Kind:		UTMRC:	4
Date Completed:	03-JAN-74	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931025109
Layer:	3
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	15
Formation End Depth:	400
Formation End Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931025107			
Layer:		1			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:		01			
Other Materials:		FILL			
Mat3:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		7			
Formation End Depth UOM:		ft			
Formation ID:		931025108			
Layer:		2			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		7			
Formation End Depth:		15			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961514020			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10584572			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930063599			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		21			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

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1 of 1

NNE/202.9

120.9 / 1.00

ON

BORE

Borehole ID:	808195	Type:	Borehole
Use:	Geotechnical/Geological Investigation	Status::	
Drill Method::	Other Method	UTM Zone::	18
Easting::	426303.19	Northing::	5013113.45

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Location Accuracy::				Orig. Ground Elev m::	.4
Elev. Reliability Note::				DEM Ground Elev m::	121
Total Depth m::		1.5		Primary Name::	3+232 27.00 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		30-MAY-2000		Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:		218595617		Top Depth(m):	0.0
Bottom Depth(m):		0.4		Stratum Desc:	Asphalt
Stratum ID:		218595618		Top Depth(m):	0.4
Bottom Depth(m):		0.4		Stratum Desc:	Base Sand - Gravel
Stratum ID:		218595619		Top Depth(m):	0.4
Bottom Depth(m):		1.5		Stratum Desc:	Silt - Sand With: Gr

25 1 of 1 **NNE/205.0** **120.9 / 1.00** **ON** **BORE**

Borehole ID:		808194		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Other Method		UTM Zone::	18
Easting::		426299.29		Northing::	5013117.02
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	122
Total Depth m::		1.5		Primary Name::	3+227 27.00 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		30-MAY-2000		Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:		218595613		Top Depth(m):	0.0
Bottom Depth(m):		0.0		Stratum Desc:	Asphalt
Stratum ID:		218595614		Top Depth(m):	0.0
Bottom Depth(m):		0.2		Stratum Desc:	Base Sand - Gravel
Stratum ID:		218595615		Top Depth(m):	0.2
Bottom Depth(m):		0.6		Stratum Desc:	Subbase Sand With: Gr
Stratum ID:		218595616		Top Depth(m):	0.6
Bottom Depth(m):		1.5		Stratum Desc:	Silt - Sand

26 1 of 1 **NNE/207.0** **120.9 / 1.00** **ON** **BORE**

Borehole ID:		808193		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status::	
Drill Method::		Other Method		UTM Zone::	18
Easting::		426294.64		Northing::	5013120.61
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	123
Total Depth m::		.1		Primary Name::	3+221 27.00 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::		30-MAY-2000		Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
--Details--					
Stratum ID:	218595611			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Topsoil
Stratum ID:	218595612			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	Sand - Gravel
27	1 of 1	NNE/216.4	120.9 / 1.00	ON	BORE
Borehole ID:	808200			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Other Method			UTM Zone::	18
Easting::	426330.78			Northing::	5013116.44
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	125
Total Depth m::	1.5			Primary Name::	3+250 7.80 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	30-MAY-2000			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218595640			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Silt - Sand With: Gr
Stratum ID:	218595638			Top Depth(m):	0.0
Bottom Depth(m):	0.0			Stratum Desc:	Asphalt
Stratum ID:	218595639			Top Depth(m):	0.0
Bottom Depth(m):	0.6			Stratum Desc:	Base Sand - Gravel
28	1 of 1	NNE/218.4	120.9 / 1.00	ON	BORE
Borehole ID:	808199			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Other Method			UTM Zone::	18
Easting::	426332.15			Northing::	5013117.91
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	125
Total Depth m::	1.5			Primary Name::	3+250 5.70 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	30-MAY-2000			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218595635			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	Asphalt
Stratum ID:	218595636			Top Depth(m):	0.2
Bottom Depth(m):	0.6			Stratum Desc:	Base Sand With: Gr
Stratum ID:	218595637			Top Depth(m):	0.6
Bottom Depth(m):	1.5			Stratum Desc:	Sand - Gravel With: Si

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
29	1 of 3	NNE/222.7	120.9 / 1.00	R.M. OF OTTAWA-CARLETON HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	CA
Certificate #: 3-0673-94- Application Year: 94 Issue Date: 11/10/1994 Approval Type: Municipal sewage Status: Cancelled Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
29	2 of 3	NNE/222.7	120.9 / 1.00	R.M. OF OTTAWA-CARLETON HAZELDEAN RD./CARP RD. GOULBOURN TWP. ON	CA
Certificate #: 7-0673-94-007 Application Year: 94 Issue Date: 8/4/94 Approval Type: Municipal water Status: Revised Ammendment Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
29	3 of 3	NNE/222.7	120.9 / 1.00	City of Ottawa Hazeldean Road & Carp Road Ottawa ON	CA
Certificate #: 6863-6FHQVH Application Year: 2005 Issue Date: 9/19/2005 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
30	1 of 1	NNE/223.8	120.9 / 1.00	ON	BORE
Borehole ID: 808192 Use: Geotechnical/Geological Investigation Drill Method:: Other Method Easting:: 426299.78 Type: Borehole Status:: UTM Zone:: 18 Northing:: 5013136.51					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Location Accuracy:: Elev. Reliability Note:: Total Depth m:: .3 Township:: Lot:: Completion Date:: 30-MAY-2000 Primary Water Use::					
Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 125 Primary Name:: 3+215 11.40 Rt Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218595609 Bottom Depth(m): 0.1 Top Depth(m): 0.0 Stratum Desc: Topsoil					
Stratum ID: 218595610 Bottom Depth(m): 0.3 Top Depth(m): 0.1 Stratum Desc: Sand - Gravel					
31	1 of 1	NNE/226.8	120.9 / 1.00	City of Ottawa Hazeldean Road & Carp Road Ottawa ON K1P 1J1	ECA
Approval No: 6863-6FHQVH Approval Date: 2005-09-19 Status: Approved Record Type: ECA Link Source: IDS Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: Hazeldean Road & Carp Road Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4667-6FAKJN-14.pdf					
32	1 of 1	NNE/230.6	120.9 / 1.00	ON	BORE
Borehole ID: 808191 Use: Geotechnical/Geological Investigation Drill Method:: Other Method Easting:: 426305.47 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 1.5 Township:: Lot:: Completion Date:: 30-MAY-2000 Primary Water Use::					
Type: Borehole Status:: UTM Zone:: 18 Northing:: 5013141.91 Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 125 Primary Name:: 3+215 3.40 Rt Concession:: Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details--					
Stratum ID: 218595606 Bottom Depth(m): 0.2 Top Depth(m): 0.0 Stratum Desc: Asphalt					
Stratum ID: 218595607 Bottom Depth(m): 0.4 Top Depth(m): 0.2 Stratum Desc: Base Sand - Gravel					
Stratum ID: 218595608 Bottom Depth(m): 1.5 Top Depth(m): 0.4 Stratum Desc: Silt - Sand With: Gr Occasional: Cob					
33	1 of 1	N/231.8	120.9 / 1.00	lot 23 con 12 ON	WWIS
Well ID: 1502947 Data Entry Status:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	1/7/1957
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4824
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
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:					

Bore Hole Information

Bore Hole ID:	10024990	Elevation:	126.26
DP2BR:	30	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	426265.6
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	5013152
Cluster Kind:		UTMRC:	5
Date Completed:	25-SEP-56	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	930995635
Layer:	1
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	10
Formation End Depth UOM:	ft
Formation ID:	930995636
Layer:	2
Color:	7
General Color:	RED
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Other Materials:	
Mat3:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		10			
Formation End Depth:		30			
Formation End Depth UOM:		ft			
Formation ID:		930995637			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		30			
Formation End Depth:		50			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961502947			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10573560			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930042761			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930042762			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		50			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991502947			
Pump Set At:					
Static Level:		20			
Final Level After Pumping:		25			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:					
Pumping Rate:	2				
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:	1				
Water State After Test:	CLEAR				
Pumping Test Method:	1				
Pumping Duration HR:	0				
Pumping Duration MIN:	30				
Flowing:	N				
Water Details					
Water ID:	933455766				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	50				
Water Found Depth UOM:	ft				

34	1 of 1	NNE/231.9	120.9 / 1.00	ON	BORE
Borehole ID:	808190			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Other Method			UTM Zone::	18
Easting::	426306.55			Northing::	5013142.89
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	125
Total Depth m::	1.5			Primary Name::	3+215 2.00 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	30-MAY-2000			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218595603			Top Depth(m):	0.0
Bottom Depth(m):	0.4			Stratum Desc:	Asphalt
Stratum ID:	218595604			Top Depth(m):	0.4
Bottom Depth(m):	0.5			Stratum Desc:	Base Sand - Gravel
Stratum ID:	218595605			Top Depth(m):	0.5
Bottom Depth(m):	1.5			Stratum Desc:	Silt - Sand With: Gr

35	1 of 1	NE/233.0	119.9 / 0.00	ON	WWIS
Well ID:	1510035			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	5/26/1969
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3503
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	STITTSVILLE VILLAGE
Elevation Reliability:				Site Info:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	10032066 9 r Bedrock 05-DEC-68			Elevation: Elevrc: Zone: East83: Org CS: North83: UTMRC: UTMRC Desc: Location Method:	126.33 18 426370.6 5013112 4 margin of error : 30 m - 100 m p4
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	931013713 1 05 CLAY 13 BOULDERS 0 9 ft				
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	931013714 2 15 LIMESTONE 9 14 ft				
Formation ID: Layer: Color: General Color: Mat1: Most Common Material:	931013715 3 15 LIMESTONE				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		14			
Formation End Depth:		150			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961510035			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10580636			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930056752			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		150			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930056751			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		17			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991510035			
Pump Set At:					
Static Level:		6			
Final Level After Pumping:		8			
Recommended Pump Depth:		75			
Pumping Rate:		15			
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:		0			
Pumping Duration MIN:		30			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing:		N			
<u>Water Details</u>					
Water ID:		933464970			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		140			
Water Found Depth UOM:		ft			
<u>36</u>	1 of 1	NE/249.3	119.9 / 0.00	ON	BORE
Borehole ID:	808206			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Other Method			UTM Zone::	18
Easting::	426439.05			Northing::	5013065.93
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	126
Total Depth m::	.1			Primary Name::	3+365 11.50 Rt
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	30-MAY-2000			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218595656			Top Depth(m):	0.0
Bottom Depth(m):	0.1			Stratum Desc:	Topsoil
Stratum ID:	218595657			Top Depth(m):	0.1
Bottom Depth(m):	0.1			Stratum Desc:	Sand - Gravel
<u>37</u>	1 of 1	NE/250.0	119.9 / 0.00	lot 23 con 12 ON	WWIS
Well ID:	1502950			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	12/19/1958
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3114
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA-CARLETON
Elevation (m):				Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
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:	10024993			Elevation:	126.19
DP2BR:	45			Elevrc:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spatial Status:				Zone:	18
Code OB:	r			East83:	426385.6
Code OB Desc:	Bedrock			Org CS:	
Open Hole:				North83:	5013122
Cluster Kind:				UTMRC:	5
Date Completed:	26-SEP-58			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

**Overburden and Bedrock
Materials Interval**

Formation ID:	930995644
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	45
Formation End Depth:	90
Formation End Depth UOM:	ft
Formation ID:	930995643
Layer:	1
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	45
Formation End Depth UOM:	ft

**Method of Construction & Well
Use**

Method Construction ID:	961502950
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10573563
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930042768			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		90			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930042767			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		49			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991502950			
Pump Set At:					
Static Level:		36			
Final Level After Pumping:		48			
Recommended Pump Depth:					
Pumping Rate:		4			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933455769			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		90			
Water Found Depth UOM:		ft			

Unplottable Summary

Total: **18** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	ETINVEST HOLDINGS LTD.	HAZELDEAN RD.,PT.LOT 31/C-11	GOULBOURN TWP. ON	
CA	511376 ONTARIO INC.	HAZELDEAN RD. S.W. RET. FAC.	GOULBOURN TWP. ON	
CA	1048219 ONTARIO INC.	PT.LOT 22/CON.11,HAZELDEAN RD.	GOULBOURN TWP. ON	
CA	G.E. REDDOM	CARP RD. (WEST CARLETON)	GOULBOURN TWP. ON	
CA		Part of Lot 23, Concession 12	Ottawa ON	
GEN	LAURYSSEN KITCHENS LTD. 24-932	COUNTY RD. 5, CARP ROAD LOT 5 CON. 3 WEST CARLETON TWP., P.O. 1235	STITTSVILLE ON	K2S 1B3
GEN	OTTAWA-CARLTON (OUT OF BUSINESS)	REGIONAL ROAD #5 AT STITTSVILLE VILLAGE	OTTAWA ON	
RSC		Part Lot 23	Ottawa ON	
RSC		Part Lot 23, Township of Gloucester	Ottawa ON	
SPL	TOP OIL RESOURCES	TOP OIL RESOURCES HAZELDEAN ROAD, GOULBORN TWP. DIESEL FUEL OUTLET	OTTAWA-CARLETON R.M. ON	
SPL	PRIVATE RESIDENCE	LOT 21, CON. 12, HAZELDEAN ROAD IN STITTSVILLE. FURNACE OIL TANK	GOULBOURN TOWNSHIP ON	
SPL		Carp Road (between Hazeldean and Stittsville Main), Stittsville	Ottawa ON	
SPL	Tomlinson Environmental Services Ltd.	Carp	Ottawa ON	NA
SPL	ONTARIO HYDRO	LOT 24, CONC 4, REG. RD # 5. MOTOR VEHICLE (OPERATING FLUID)	GOULBOURN TOWNSHIP ON	
SPL	TRANSPORT TRUCK	CARP RD MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON	K2S 1B9
WWIS		lot 23	ON	
WWIS		lot 22	ON	
WWIS		lot 23	ON	

Unplottable Report

Site: ETINVEST HOLDINGS LTD.
HAZELDEAN RD.,PT.LOT 31/C-11 GOULBOURN TWP. ON

Database:
CA

Certificate #: 3-0349-96-
Application Year: 96
Issue Date: 6/11/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: 511376 ONTARIO INC.
HAZELDEAN RD. S.W. RET. FAC. GOULBOURN TWP. ON

Database:
CA

Certificate #: 3-0858-93-
Application Year: 93
Issue Date: 9/15/1993
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: 1048219 ONTARIO INC.
PT.LOT 22/CON.11,HAZELDEAN RD. GOULBOURN TWP. ON

Database:
CA

Certificate #: 3-0908-94-
Application Year: 94
Issue Date: 8/16/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: G.E. REDDOM
CARP RD. (WEST CARLETON) GOULBOURN TWP. ON

Database:
CA

Certificate #: 7-1099-88-
Application Year: 88

Issue Date: 7/25/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: Part of Lot 23, Concession 12 Ottawa ON

Database:
CA

Certificate #: 7710-4YQSAU
Application Year: 01
Issue Date: 9/7/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: G. Lemay Construction (1998) Inc.
Client Address:: 5330 Chemin Canotek, Suite 8
Client City:: Ottawa
Client Postal Code:: K1J 9C2
Project Description:: Construction of Stormwater Management Facility to service the Eco Woods Subdivision
Contaminants::
Emission Control::

Site: LAURYSSEN KITCHENS LTD. 24-932
COUNTY RD. 5, CARP ROAD LOT 5 CON. 3 WEST CARLETON TWP., P.O. 1235 STITTSVILLE ON K2S 1B3

Database:
GEN

Generator No.: ON1569500
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 2542
SIC Description: WOODEN KITCHEN CAB.

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

Site: OTTAWA-CARLTON (OUT OF BUSINESS)
REGIONAL ROAD #5 AT STITTSVILLE VILLAGE OTTAWA ON

Database:
GEN

Generator No.: ON0303102
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 8351
SIC Description: EXEC./LEGIS. ADMIN.

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site:
Part Lot 23 Ottawa ON

Database:
RSC

Reg No:		Cert Date:	
RA No:		Cert Prop Use No:	
RSC Type:		Intended Prop Use:	
Curr Property Use:		Nm of Qual. Person:	
District Office:	Ottawa	Stratified (Y/N):	N
Date Submitted:	07/05/01	Audit (Y/N):	
Date Ack:	08/14/01	Entire Leg Prop. (Y/N):	
Date Returned:		Accuracy Estimate:	
Restoration Type:	Generic	Telephone:	
Soil Type:	Medium/Fine	Fax:	
Criteria:	Res/parkland + Nonpotable	Email:	
CPU Issued Sect 1686:			
Asmt Roll No:			
Prop. ID No:			
Property Municipal Address:			
Mailing Address:			
Latitude & Latitude:			
UTM Coordinates:			
Consultant:	DST Consulting Engineers Inc.		
Filing Owner:			
Legal Desc:			
Measurement Method:			
Applicable Standards:			
RSC PDF:			

Site:
Part Lot 23, Township of Gloucester Ottawa ON

Database:
RSC

Reg No:		Cert Date:	
RA No:		Cert Prop Use No:	
RSC Type:		Intended Prop Use:	
Curr Property Use:		Nm of Qual. Person:	
District Office:	Ottawa	Stratified (Y/N):	
Date Submitted:	07/05/01	Audit (Y/N):	
Date Ack:		Entire Leg Prop. (Y/N):	
Date Returned:	07/23/01	Accuracy Estimate:	
Restoration Type:		Telephone:	
Soil Type:		Fax:	
Criteria:		Email:	
CPU Issued Sect 1686:			
Asmt Roll No:			
Prop. ID No:			
Property Municipal Address:			
Mailing Address:			
Latitude & Latitude:			
UTM Coordinates:			
Consultant:	DST Consulting Engineers Inc.		
Filing Owner:			
Legal Desc:			
Measurement Method:			
Applicable Standards:			
RSC PDF:			

Site: TOP OIL RESOURCES
TOP OIL RESOURCES HAZELDEAN ROAD, GOULBORN TWP. DIESEL FUEL OUTLET OTTAWA-CARLETON R.M.
ON

Database:
SPL

Ref No:	25861	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	9/25/1989	Client Type:	
Year:		Sector Type:	
Incident Cause:	UNDERGROUND TANK LEAK	Source Type:	

Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact:
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/28/1989
Dt Document Closed:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: TOP OIL RESOURCES- 7000 LTR DIESEL FUEL LEAK FROM UNDERGROUND TANK

Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20000
Site Lot:
Site Conc:
Northing:
Easting: MCCR
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: PRIVATE RESIDENCE
 LOT 21, CON. 12, HAZELDEAN ROAD IN STITTSVILLE. FURNACE OIL TANK GOULBOURN TOWNSHIP ON

Database:
 SPL

Ref No: 140830
Site No:
Incident Dt: //
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: POSSIBLE
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/15/1997
Dt Document Closed:
SAC Action Class:
Incident Reason: UNKNOWN
Incident Summary: PRIVATE RESIDENCE-200 L FURNACE OIL TO GROUND.

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20604
Site Lot:
Site Conc:
Northing:
Easting: MOEE
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Carp Road (between Hazeldean and Stittsville Main), Stittsville Ottawa ON

Database:
 SPL

Ref No: 4602-9PMMJY
Site No: NA
Incident Dt: 2014/10/06
Year:
Incident Cause: Unknown / N/A
Incident Event:
Contaminant Code: 15
Contaminant Name: MOTOR OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 0 other - see incident description
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium:

Discharger Report:
Material Group:
Client Type:
Sector Type: Sewer (Private or Municipal)
Source Type:
Nearest Watercourse:
Site Name: Sanitary sewer<UNOFFICIAL>
Site Address: Carp Road (between Hazeldean and Stittsville Main), Stittsville
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:

Receiving Env:
Health/Env Conseq:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/10/06
Dt Document Closed: 2014/11/03
SAC Action Class: Land Spills
Incident Reason: Unknown / N/A
Incident Summary: Stittsville, motor oil in sewer, city investigating source

Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: Tomlinson Environmental Services Ltd.
Carp Ottawa ON NA

Database:
SPL

Ref No: 5601-9YDPU5
Site No: 2865-5FNRS
Incident Dt: 7/12/2015
Year:
Incident Cause:
Incident Event:
Contaminant Code: 31
Contaminant Name: SMOKE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 0 other - see incident description
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: Yes
Dt MOE Arvl on Scn: 7/16/2015
MOE Reported Dt: 7/13/2015
Dt Document Closed: 9/16/2015
SAC Action Class: Air Spills - Fires
Incident Reason: Unknown / N/A
Incident Summary: Minor fire at waste transfer station

Discharger Report:
Material Group:
Client Type:
Sector Type: Unknown / N/A
Source Type:
Nearest Watercourse:
Site Name: 106 Westhunt Drive
Site Address: Carp
Site District Office:
Site County/District:
Site Postal Code: NA
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing: 5016191
Easting: 423717
Site Geo Ref Accu: NA
Site Geo Ref Meth: NA
Site Map Datum: NAD83

Site: ONTARIO HYDRO
LOT 24, CONC 4, REG. RD # 5. MOTOR VEHICLE (OPERATING FLUID) GOULBOURN TOWNSHIP ON

Database:
SPL

Ref No: 158930
Site No:
Incident Dt: 8/11/1998
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Environment Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
Health/Env Conseq:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/11/1998
Dt Document Closed:
SAC Action Class:
Incident Reason: EQUIPMENT FAILURE
Incident Summary: ONTARIO HYDRO-25 L HYDRAU-LIC OIL ONTO SHOULDER RDFROM TRUCK, CLEANED UP.

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name:
Site Address:
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: 20604
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Site: TRANSPORT TRUCK
CARP RD MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON K2S 1B9

Database:
SPL

Ref No:	194415	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	2/6/2001	Client Type:	
Year:		Sector Type:	
Incident Cause:	OTHER CAUSE (N.O.S.)	Source Type:	
Incident Event:		Nearest Watercourse:	
Contaminant Code:		Site Name:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site County/District:	
Contaminant UN No 1:		Site Postal Code:	
Contaminant Qty:		Site Region:	
Environment Impact:	Possible	Site Municipality:	20107
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
Health/Env Conseq:		Easting:	
MOE Response:		Site Geo Ref Accu:	
Dt MOE Arvl on Scrn:		Site Geo Ref Meth:	
MOE Reported Dt:	2/6/2001	Site Map Datum:	
Dt Document Closed:			
SAC Action Class:			
Incident Reason:	UNKNOWN		
Incident Summary:	TRANSPORT TRUCK,CDN WASTE SERVICES 170L DIESEL TO GRND. CONTAINED CLEANED		

Site: lot 23 ON

Database:
WWIS

Well ID:	1525460	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/14/1991
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3749
Casing Material:		Form Version:	1
Audit No:	91548	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA-CARLETON
Elevation (m):		Municipality:	GOULBOURN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	023
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:			

Bore Hole Information

Bore Hole ID:	10047198	Elevation:	
DP2BR:	4	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	Org CS:	
Open Hole:		North83:	
Cluster Kind:		UTMRC:	9
Date Completed:	13-MAY-91	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931061217
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3: 14
Other Materials: HARDPAN
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Formation ID: 931061218
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3: 78
Other Materials: MEDIUM-GRAINED
Formation Top Depth: 4
Formation End Depth: 105
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111215
Layer: 2
Plug From: 7
Plug To: 21
Plug Depth UOM: ft

Plug ID: 933111214
Layer: 1
Plug From: 0
Plug To: 7
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525460
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10595768
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082637
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 105
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930082636
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525460
Pump Set At:
Static Level: 6
Final Level After Pumping: 85
Recommended Pump Depth: 95
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934387687
Test Type: Draw Down
Test Duration: 30
Test Level: 55
Test Level UOM: ft

Pump Test Detail ID: 934112283
Test Type: Draw Down
Test Duration: 15
Test Level: 35
Test Level UOM: ft

Pump Test Detail ID: 934905824
Test Type: Draw Down
Test Duration: 60
Test Level: 85
Test Level UOM: ft

Pump Test Detail ID: 934648644
Test Type: Draw Down
Test Duration: 45
Test Level: 75
Test Level UOM: ft

Water Details

Water ID: 933484459
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 101
Water Found Depth UOM: ft

Site:
lot 22 ON

Database:
WWIS

Well ID: 1525843
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 91580
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: 11/22/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 3749
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GOULBOURN TOWNSHIP
Site Info:
Lot: 022
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047578
DP2BR: 0
Spatial Status:
Code OB: h
Code OB Desc: Mixed in a Layer
Open Hole:
Cluster Kind:
Date Completed: 15-OCT-91
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock
Materials Interval

Formation ID: 931062452
Layer: 1
Color: 6
General Color: BROWN
Mat1: 14
Most Common Material: HARDPAN
Mat2: 26
Other Materials: ROCK
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Formation ID: 931062453
Layer: 2

Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3: 78
Other Materials: MEDIUM-GRAINED
Formation Top Depth: 4
Formation End Depth: 110
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111394
Layer: 1
Plug From: 4
Plug To: 22
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525843
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10596148
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930083288
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525843
Pump Set At:
Static Level: 38
Final Level After Pumping: 70
Recommended Pump Depth: 105
Pumping Rate: 7
Flowing Rate:
Recommended Pump Rate: 7
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

Draw Down & Recovery

Pump Test Detail ID: 934105628
Test Type: Draw Down
Test Duration: 15
Test Level: 58
Test Level UOM: ft

Pump Test Detail ID: 934649815
Test Type: Draw Down
Test Duration: 45
Test Level: 70
Test Level UOM: ft

Pump Test Detail ID: 934389285
Test Type: Draw Down
Test Duration: 30
Test Level: 69
Test Level UOM: ft

Water Details

Water ID: 933484967
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 103
Water Found Depth UOM: ft

Water ID: 933484966
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 83
Water Found Depth UOM: ft

Site: lot 23 ON

Database:
WWIS

Well ID: 1528156
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 147502
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: 9/27/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 4006
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GOULBOURN TOWNSHIP
Site Info:
Lot: 023
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049695
DP2BR: 35
Spatial Status:
Code OB: r

Elevation:
Elevrc:
Zone: 18
East83:

Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 03-AUG-94
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931068760
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 78
Other Materials: MEDIUM-GRAINED
Mat3: 71
Other Materials: FRACTURED
Formation Top Depth: 38
Formation End Depth: 44
Formation End Depth UOM: ft

Formation ID: 931068762
Layer: 6
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 73
Other Materials: HARD
Mat3:
Other Materials:
Formation Top Depth: 50
Formation End Depth: 120
Formation End Depth UOM: ft

Formation ID: 931068759
Layer: 3
Color: 8
General Color: BLACK
Mat1: 17
Most Common Material: SHALE
Mat2: 71
Other Materials: FRACTURED
Mat3:
Other Materials:
Formation Top Depth: 35
Formation End Depth: 38
Formation End Depth UOM: ft

Formation ID: 931068758
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 35

Formation End Depth UOM: ft
Formation ID: 931068757
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Formation ID: 931068761
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 78
Other Materials: MEDIUM-GRAINED
Mat3:
Other Materials:
Formation Top Depth: 44
Formation End Depth: 50
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113011
Layer: 1
Plug From: 5
Plug To: 50
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528156
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10598265
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086855
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 120
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930086853
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 50
Casing Diameter: 10
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930086854
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 50
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528156
Pump Set At:
Static Level: 4
Final Level After Pumping: 79
Recommended Pump Depth: 100
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: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934656549
Test Type:
Test Duration: 45
Test Level: 52
Test Level UOM: ft

Pump Test Detail ID: 934905341
Test Type:
Test Duration: 60
Test Level: 79
Test Level UOM: ft

Pump Test Detail ID: 934112412
Test Type:
Test Duration: 15
Test Level: 79
Test Level UOM: ft

Pump Test Detail ID: 934387221
Test Type:
Test Duration: 30
Test Level: 31
Test Level UOM: ft

Water Details

Water ID: 933487744
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 72
Water Found Depth UOM: ft

Water ID: 933487745
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 114
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

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

Government Publication Date: Up to Sep 2017

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-Nov 2016

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

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, 2018

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 2014

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*

Commercial Fuel Oil Tanks:

Provincial [CFOT](#)

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

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, 2018

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 31, 2012

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 2017

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-Apr 30, 2018

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-Nov 30, 2017

Dry Cleaning Facilities:

Federal [DRYCLEANERS](#)

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 2016

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-Jun 30, 2018

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-Apr 30, 2018

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-Jun 30, 2018

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-Feb 28, 2018

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

List of TSSA Expired Facilities:

Provincial **EXP**

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

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.

Government Publication Date: Jun 2000-May 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 2017

Fuel Storage Tank:

Provincial

FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

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-December 31, 2017

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 2016

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

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*

TSSA Incidents:

Provincial [INC](#)

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

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: Dec 31, 2013

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*

Environmental Penalty Annual Report:

Provincial [MISA PENALTY](#)

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, 2017

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 2018

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, 2016

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 National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Mar 31, 2018

National Energy Board Wells:

Federal

NEBW

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

OGW

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-April 30, 2018

Ontario Oil and Gas Wells:

Provincial

OGGW

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

Government Publication Date: 1800-Oct 2017

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-Apr 30, 2018

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 2018

TSSA Pipeline Incidents:

Provincial [PINC](#)

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

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-Apr 30, 2018

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

<u>Record of Site Condition:</u>	Provincial	RSC
The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).		
Government Publication Date: 1997-Sept 2001, Oct 2004-Apr 2018		
<u>Retail Fuel Storage Tanks:</u>	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, 2018		
<u>Scott's Manufacturing Directory:</u>	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*		
<u>Ontario Spills:</u>	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-Feb 2018		
<u>Wastewater Discharger Registration Database:</u>	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, 2016		
<u>Anderson's Storage Tanks:</u>	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*		
<u>Transport Canada Fuel Storage Tanks:</u>	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 2017		
<u>TSSA Variances for Abandonment of Underground Storage Tanks:</u>	Provincial	VAR
List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all 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.		
Government Publication Date: Feb 28, 2017		
<u>Waste Disposal Sites - MOE CA Inventory:</u>	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-Jun 30, 2018		

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

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

Government Publication Date: Dec 31, 2017

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.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



APPENDIX B – ADDITIONAL INFORMATION



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

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 2011	
Site Listing:	-Techo-Bloc Ottawa
Adjacent Properties:	
6300 Hazeldean Road	-Address Not Listed
6303 Hazeldean Road	-Address Not Listed
6320 Hazeldean Road	-Address Not Listed
6330 Hazeldean Road	-Address Not Listed

1174 Carp Road	-Openroads of Ottawa

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 2006/07	
Site Listing:	-Foran RV's LTD
Adjacent Properties:	
6300 Hazeldean Road	-Address Not Listed
6303 Hazeldean Road	-Address Not Listed
6320 Hazeldean Road	-Address Not Listed
6330 Hazeldean Road	-Address Not Listed
1174 Carp Road	-Address Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario

Year: 2001/02	
Site Listing:	-Foran RV's LTD
Adjacent Properties:	
6300 Hazeldean Road	-Address Not Listed
6303 Hazeldean Road	-Address Not Listed
6320 Hazeldean Road	-Address Not Listed
6330 Hazeldean Road	-Address Not Listed
1174 Carp Road	-Address Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1996/97	
Site Listing:	-Foran RV's LTD
Adjacent Properties:	

6300 Hazeldean Road	-Address Not Listed
6303 Hazeldean Road	-Address Not Listed
6320 Hazeldean Road	-Address Not Listed
6330 Hazeldean Road	-Address Not Listed
1174 Carp Road	-G and R Railing

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1992	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed

6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1987	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario

Year: 1981/82	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1977/78	
Site Listing:	-Street Not Listed
Adjacent Properties:	

6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1972	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed

6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1967	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
-----------------------------	--

Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1962	
Site Listing:	-Street Not Listed
Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

PROJECT NUMBER: 20180725038	
Site Address:	6310 Hazeldean Road, Stittsville, Ontario
Year: 1957	
Site Listing:	-Street Not Listed

Adjacent Properties:	
6300 Hazeldean Road	-Street Not Listed
6303 Hazeldean Road	-Street Not Listed
6320 Hazeldean Road	-Street Not Listed
6330 Hazeldean Road	-Street Not Listed
1174 Carp Road	-Street Not Listed

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

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



Ministry
of the
Environment

Ministère
de
l'Environnement

CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 6863-6FHQVH
Issue Date: September 19, 2005

Ontario

City of Ottawa
110 Laurier Avenue West
Ottawa, Ontario
K1P 1J1

Site Location: Hazeldean Road & Carp Road intersection
Ottawa City, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

storm sewers to be reconstructed in the City of Ottawa, on Hazeldean Road and Carp Road intersection, all in accordance with the application from the City of Ottawa, dated August 8, 2005, including final plans and specifications prepared by McCormick Rankin Corporation.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

CONTENT COPY OF ORIGINAL

DATED AT TORONTO this 19th day of September, 2005

Aziz Ahmed, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

GG/

c: District Manager, MOE Ottawa
Pierre Page, Clerk & Director, Secretariat Services, City of Ottawa
Suraj Harish, P.Eng., City of Ottawa
Lynn Raymond, City of Ottawa
Manny Goetz, P.Eng., McCormick Rankin Corporation



CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 7773-8EMKSV
Issue Date: March 31, 2011

Sobeys Capital Incorporated, operating as General Partner for Sobeys Developments Limited
Partnership
5935 Airport Road, Suite 810
Mississauga, Ontario
L4V 1W5

Site Location: 6303 Hazeldean Road
Ward 6
City of Ottawa, Ontario

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

storm sewers to be constructed in the City of Ottawa, on Carp Road;

all in accordance with the application from Sobeys Capital Incorporated, operating as General Partner for Sobeys Developments Limited Partnership, dated **December 08, 2010**, including final plans and specifications prepared by Delcan Corporation.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, Ontario Water Resources Act
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

CONTENT COPY OF ORIGINAL

Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 31st day of March, 2011

Sherif Hegazy, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

YB/

c: District Manager, MOE Ottawa

M. Boughton, Program Manager, Development Review, City of Ottawa, (File Number: D07-12-10-0048)

L. Carkner, Program Manager, Infrastructure Services, City of Ottawa

D. Yaeger, Delcan Corporation

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



APPENDIX C – CORRESPONDENCE

McINTOSH PERRY

July 25, 2018

Ministry of the Environment, Conservation and Parks
Freedom of Information Office
40 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1M2

Re: Freedom of Information Request (FOI)

Civic Address: 6310-6320 Hazeldean Road, Ottawa, Ontario

Legal Description:

Parts 1, 2, 3, 4, 5, 6, and 7, Registered Plan 4R-19395 (PIN 04753-0270, 04753-0271, and 04753-0272)

Dear Sir/Madam,

Please find enclosed a freedom of information request pertaining to the above-noted site. A credit card payment form for the Freedom of Information Request fee is enclosed. The property is identified by the two municipal addresses above, but is a contiguous parcel with a single owner. Please mail or fax our office any information regarding this site.

If you have any further questions, please do not hesitate to contact the undersigned.

Yours Truly,



Dan Arnott, P.Eng.

Ext. 2295

d.arnott@mcintoshperry.com

CP-18-0052 - MOE Freedom of Information Request .docx

Ministry of the Environment
 Freedom of Information and Protection of Privacy Office
 40 St. Clair Avenue West, 12th Floor
 Toronto, ON M4V 1M2
 Tel: 416-314-4075
 Fax: 416-314-4285



Use this form to request records that are in the Ministry's files on environmental concerns related to properties.
 Please refer to the guide on the completion and use of this form. Our fax no. is 416-314-4285.

Requester Data			For Ministry Use Only	
Name, Title, Company Name and Mailing Address of Requester Dan Arnott McIntosh Perry Consulting Engineers Ltd. 115 Walgreen Rd, Carp, ON K0A 1L0 Email Address: d.arnott@mcintoshperry.com			FOI Request No.	Date Request Received
			Fee Paid <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC/AMEX <input type="checkbox"/> CASH/MONEY ORDER <input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SCB <input type="checkbox"/> SDW	
Tel: 613.836.2184 x2295 Fax: 613.836.3742	Your Project/ Reference No. CP-18-0052	Signature of Requester <i>Dan Arnott</i>		
Request Parameters				
Municipal Address/Lot, Concession, Geographic Township (Municipal address mandatory for cities, towns or regions) 6310 and 6320 Hazeldean Rd, Ottawa, ON				
Present Property Owner(s) and Date(s) of Ownership Unknown				
Previous Property Owner(s) and Date(s) of Ownership Unknown				
Present/Previous Tenant(s) (if applicable) Techo - Bloc				
Search Parameters Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.				Specify Year(s) Requested
Environmental concerns (General correspondence, occurrence reports, abatement)				1986 - Present
Orders				1986 - Present
Spills				1986 - Present
Investigations/prosecutions ▶ Owner and tenant information must be provided				1986 - Present
Waste Generator number/classes				1986 - Present
Certificates of Approval ▶ Proponent information must be provided and Certificates 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 of records to be searched. If supporting documents are also required, mark SD box.				
			SD	Specify Year(s) Requested
Air - emissions			✓	1986 - Present
Renewable Energy			✓	1986 - Present
Water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)			✓	1986 - Present
Sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations			✓	1986 - Present
Waste water - industrial discharge			✓	1986 - Present
Waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites			✓	1986 - Present
Waste systems	- haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction		✓	1986 - Present

July 25, 2018

Ministry of the Environment, Conservation and Parks
Ottawa District Office
103-2430 Don Reid Drive
Ottawa ON K1H 1E1

Re: Freedom of Information Request (FOI)

Civic Address: 6310-6320 Hazeldean Road, Ottawa, Ontario

Legal Description:

Parts 1, 2, 3, 4, 5, 6, and 7, Registered Plan 4R-19395 (PIN 04753-0270, 04753-0271, and 04753-0272)

Dear Sir/Madam,

We have been authorized to perform a Phase I Environmental Site Assessment (ESA) for the above-noted properties located in Ottawa, Ontario. As part of the ESA we are required to review past environmental occurrences on the subject property. In order to perform this part of the research, we would like to enquire as to whether or not your office has any record of Orders, Approvals or other documentation pertaining to this property.

Thank you in advance for all of your assistance with this request.

If you have any further questions or require further clarification, please do not hesitate to contact the undersigned.

Yours Truly,



Dan Arnott, P.Eng.

Ext. 2295

d.arnott@mcintoshperry.com

CP-18-0272 - Request to MOE for Orders and Approvals..docx

Stefan Holik

From: Daniel Arnott
Sent: August 17, 2018 11:51 AM
To: Stefan Holik
Subject: FW: Environmental (Phase 1 ESA) Information Request (No Record Found)

Daniel Arnott, P.Eng.

Geo-Environmental Engineer

T. 613.836.2184 (ext 2295) | **F.** 613.836.3742 | **C.** 613.897.8818

From: Public Information Services [mailto:publicinformationsservices@tssa.org]
Sent: July 27, 2018 4:21 PM
To: Daniel Arnott <d.arnott@mcintoshperry.com>
Subject: RE: Environmental (Phase 1 ESA) Information Request (No Record Found)

Good afternoon Daniel. Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at <https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392> and email the completed form to publicinformationsservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA. Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Jan

From: Daniel Arnott <d.arnott@mcintoshperry.com>
Sent: July 25, 2018 10:46 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Environmental (Phase 1 ESA) Information Request

Good morning,

Would you be able to search your files for information on the following properties in Ottawa (formerly Stittsville), Ontario?

1174 Carp Road
6303 Hazeldean Road
6310 Hazeldean Road
6320 Hazeldean Road

Many thanks,
Dan

Daniel Arnott, P.Eng.

Geo-Environmental Engineer

115 Walgreen Road, R.R. 3, Carp, ON K0A 1L0

T. 613.836.2184 (ext 2295) | F. 613.836.3742 | C. 613.897.8818

d.arnott@mcintoshperry.com | www.mcintoshperry.com

McINTOSH PERRY

Confidentiality Notice – If this email wasn't intended for you, please return or delete it. Click [here](#) to read all of the legal language around this concept.



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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON

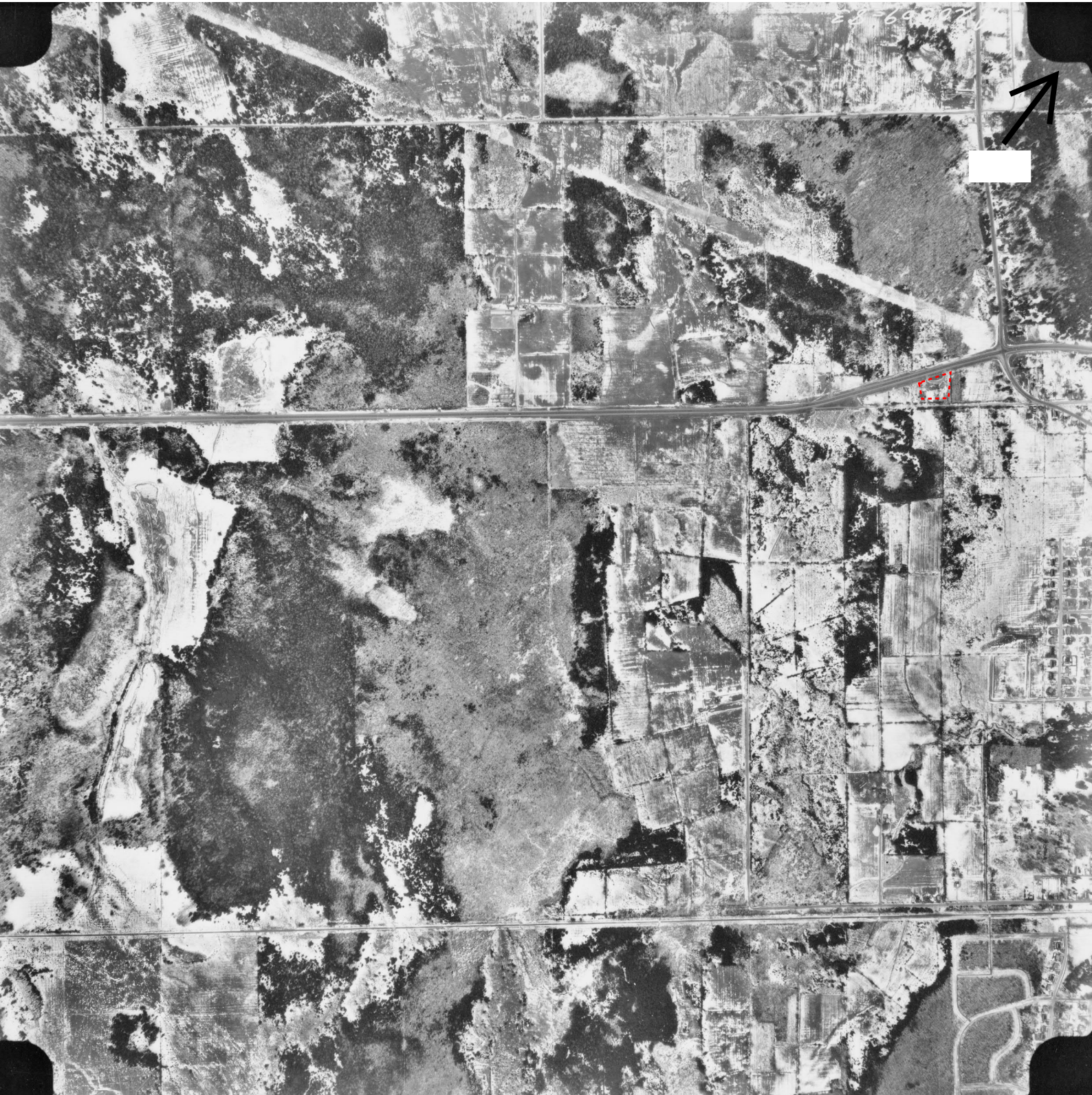


APPENDIX D – AERIAL PHOTOGRAPHS

115 267 74







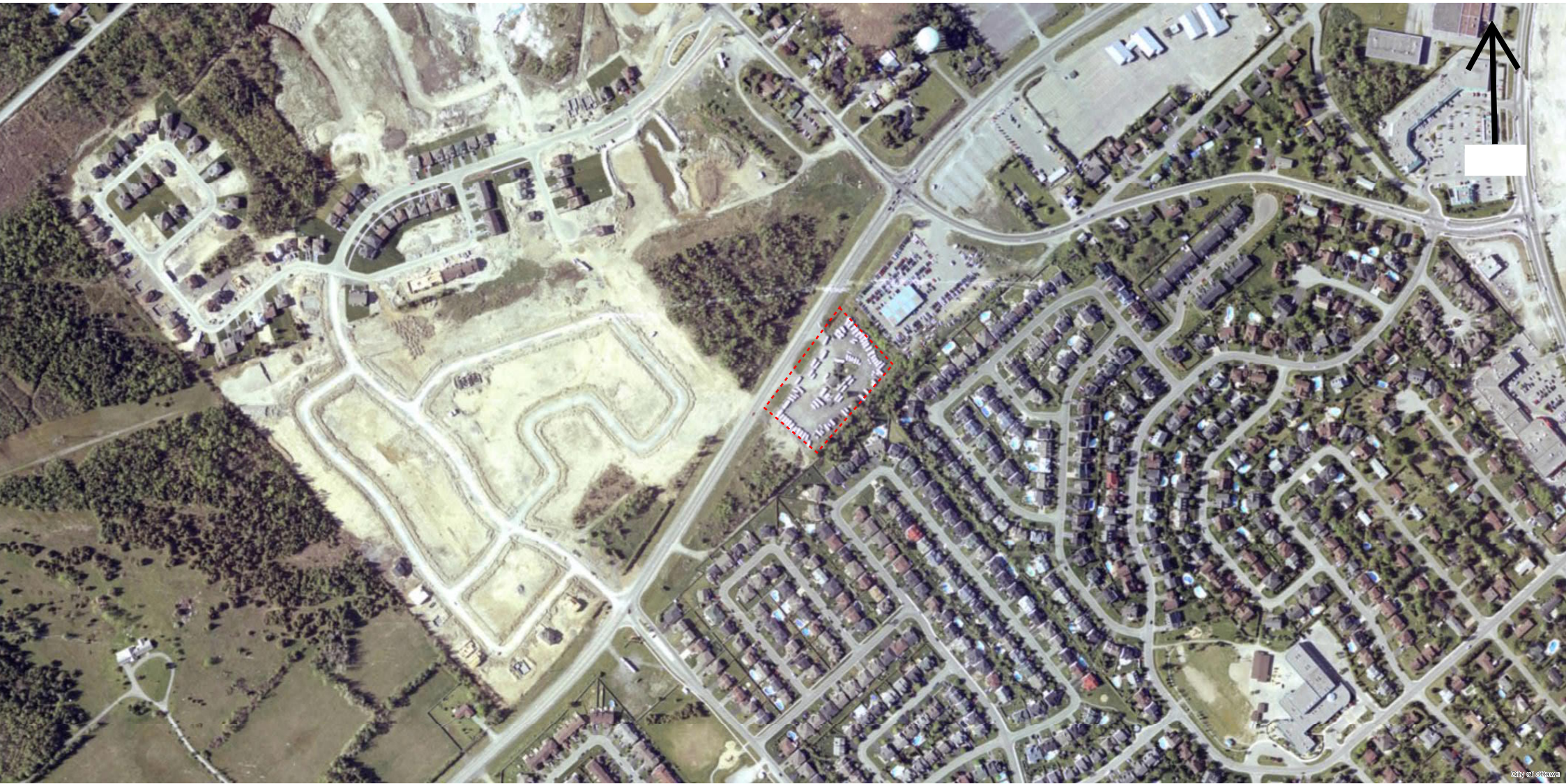


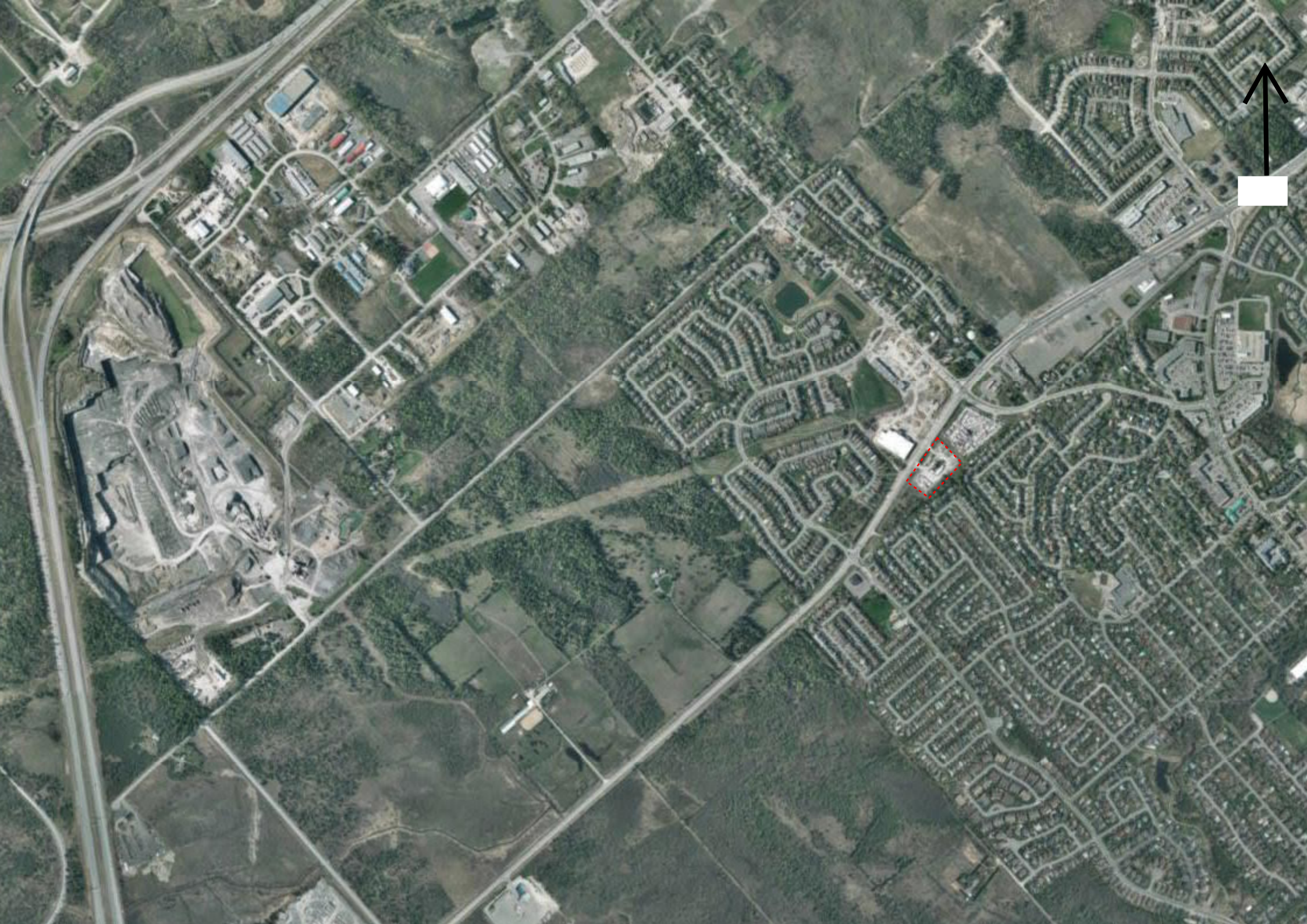
180

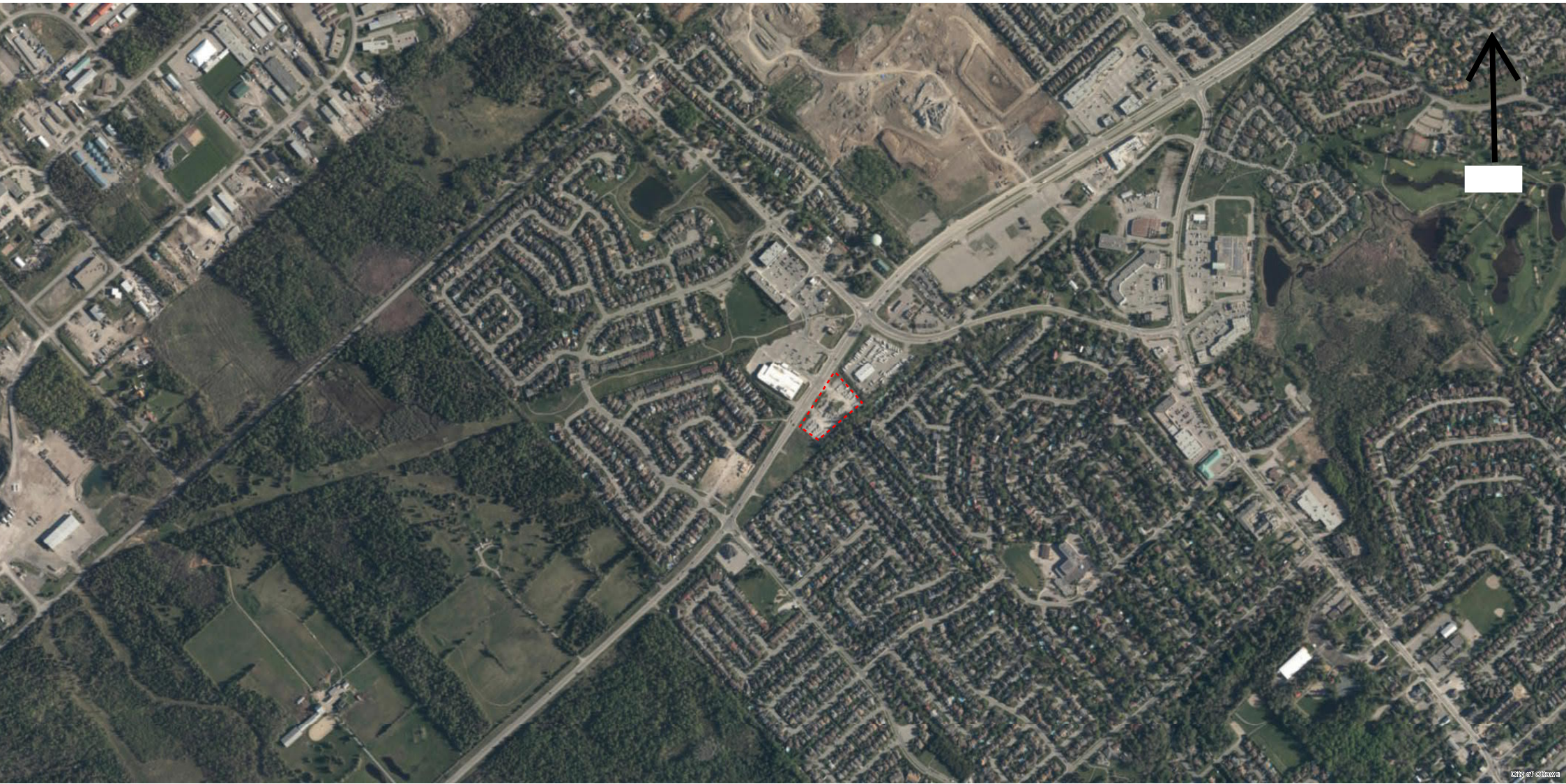
A31198











PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



APPENDIX E – INTERVIEW RECORDS

Michael - 613-978-9925

Owner 2006. Owned since 2009 ✓ MPCE 10 am

Phase I ESA Interviews

Interviewer (MPCE) Bradley Sutherland MPCE Project No. CP-18-0052

Interviewee Michael + Mark

Relationship to Subject Property Owner Time Associated with Property: 2006

Date Aug 01 2018 Date Property was developed: UNSURE.

Potential Item of Concern	Interview Comments
Accidents/Spills	Not since they have been here
Previous Use of Site	RV dealership. in garage
Adjacent Properties	Uncont, RV.
Fuel Handling/Storage	Diesel fuel for forklift, above ground tank on concrete pad. - propane tank for winter heating.
Maintenance/Operational Areas	No. gas heater in garage.
Hazardous Materials Storage	Fluorescence Remover.
Salt Storage	Sodium Cl bags for dust suppression. in flakes.

Potential Item of Concern	Interview Comments
ODS	No
Electromagnetic Radiation	microwaves.
UFFI	NO
Mercury	possible. thermo stats.
Radon Gas	NO.
Soil and Groundwater Conditions	No knowledge
Wells	1 water well.
Waste Disposal and Recycling	on call garbage bin.
Fill Material	gravel to fill potholes.
Floor Drains/OWS (discharge locations)	Not sure. possible basin. filled in with gravel.
Other	No.

Future use of property: 3 building Retail Plaza.

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 6310 HAZELDEN ROAD, STITTSVILLE, ON



APPENDIX F – SITE PHOTOGRAPHS



Photo 1: Front exterior of Site, facing northwest from site parking lot.



Photo 2: Former RV automotive garage, facing northeast.



Photo 3: Efflorescence removal chemical in garage



Photo 4: Pit in garage, filled in with gravel.



Photo 5: Location of former above ground diesel fuel storage tank, rear of garage facing northeast.



Photo 6: Interior of office building



Photo 7: Interior of trailer



Photo 8: Garbage collection area behind trailer.



Photo 9: On-site well, front of office building.



Photo 10: Propane above ground storage tank, behind office building



Photo 11: Rear exterior of Site, facing southwest