June 2017

REPORT ON

Phase One Environmental Site Assessment
3311 Greenbank Road
Ottawa, Ontario

Submitted to:
Minto Communities - Canada
200-180 Kent Street
Ottawa, Ontario
K1P 0B6

REPORT

Report Number: 1773927-2000

Distribution:

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Golder Associates

Executive Summary

The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.

Golder Associates Ltd. (Golder) was retained by Minto Communities - Canada (Minto) to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the southeastern portion of the property located at 3311 Greenbank Road in Ottawa, Ontario (herein after referred to as the "Site" or "Phase One Property") as shown on Figures 1 and 2. For reporting purposes, Site north has been defined such that Greenbank Road has a north-south axis. At the time of the Site reconnaissance, which was conducted on February 28, 2017, the Site consisted of an approximately 13.95 acre (5.65 hectare) parcel of undeveloped, vacant land that was vegetated and primarily snow covered.

It is understood that the Phase One Property is to be redeveloped as a residential subdivision consisting of townhouses.

The Phase One ESA was completed in accordance with Ontario Regulation (O. Reg. 153/04), as amended, and included a review of available current and historical information regarding the Site and surrounding properties, a Site reconnaissance, interviews, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 9.0 of this report. Given that the Site is currently undeveloped, vacant land and has not been used as an automotive garage, a bulk liquid dispensing facility or a dry cleaning facility, the Site is not considered an enhanced investigation property as defined by O. Reg. 153/04. There will be no change in the land use from less sensitive to more sensitive; therefore the Phase One ESA has not been completed to support a Record of Site Condition.

Based on the information obtained as part of this Phase One ESA, none of the identified potentially contaminating activities (PCAs) were considered to represent an area of potential environmental concern (APEC) for the Site and a Phase Two ESA is not recommended to be carried out at the Site at this time. However, during the Site visit, an area of debris was observed on the southwest portion of the Site. The debris included shingles, wood and metal debris. In addition, an old piece of metal farm equipment was located on the southeast corner of the Site. The presence of this waste is not considered to be an on-Site PCA; however, it is considered to be a property management issue and should be removed from the Site prior to development.

At the time of preparation of this report, a response to Golder's request for information had not been received from the Ministry of Natural Resources and Forestry. However, based on the body of information acquired, it is considered that the absence of this information should not likely affect the final conclusion of the Phase One ESA. Golder will review responses to these regulatory requests upon their receipt and should the responses affect the findings of this Phase One ESA, they will be forwarded to Minto. There were no material deviations to the Phase One ESA requirements set out in O.Reg. 153/04 that would cause uncertainty or absence of information that would affect the validity of the Phase One Conceptual Site Model or the findings of this Phase One ESA.

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1.0 INTRODUCTION

1.1 Phase One Property Information

Golder Associates Ltd. (Golder) was retained by Minto Communities - Canada (Minto) to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the following property:

Municipal Address	3311 Greenbank Road
Property Identification Number	047321365
Legal Description	Part of Lot 13, Concession 2 (Rideau Front), Ottawa, Ontario

The Site location is provided on Figure 1. A Site plan is provided on Figure 2. For reporting purposes, Site north has been defined such that Greenbank Road has a north-south axis.

The contact information for the Site is:

Site Owner / Client	Address	Contact Information
Minto Communities - Canada	200-180 Kent Street Ottawa, Ontario K1P 0B6	Catherine Tremblay Office: 613-786-3279 Email: ctremblay@minto.com

2.0 SCOPE OF INVESTIGATION

A Phase One ESA is a preliminary qualitative assessment of the environmental condition of a property, based on a review of current activities and historical information for the Site and a review of relevant and readily available environmental information for the surrounding properties located within a 250 metre (m) radius of the boundary of the Site (collectively referred to as the "Phase One Study Area"). The boundary of the Phase One Study Area is presented in Figure 2.

According to Ontario Regulation (O.Reg.) 153/04 *Records of Site Condition*, the objectives of a Phase One ESA are to:

1) Develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in, or under the Site;

2) Determine the need for a Phase Two Environment Site Assessment (ESA);

3) Provide a basis for carrying out a Phase Two ESA;

4) Provide adequate preliminary information about environmental conditions in the land or water on, in, or under the Site for the conduct of a risk assessment following completion of a Phase Two ESA; and,

5) Identify and report on evidence of actual and/or potential contamination on the Site from current and historical activities at the Site or from adjacent properties.

3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

For the purpose of this Phase One ESA, the Phase One Study Area is the area within a 250 m radius of the boundary of the Site. Based on Golder's review of the historical and current information compiled as part of this Phase One ESA for the area surrounding the Site and observations of neighbouring properties made during the Site visit, it was concluded that an assessment of information pertaining to properties within 250 m of the boundary of the Site was sufficient to achieve the objectives of the Phase One ESA.

3.1.2 First Developed Use Determination

The date of first developed use of the Phase One Property was determined based on review of the aerial photographs, the EcoLog Environment Risk Information Service Ltd. (ERIS) report and information provided by the Site Representative. The Phase One Property is shown as undeveloped, vacant land in the 1947 and subsequent aerial photographs and at the time of the Site visit, conducted on February 28, 2017, the Phase One Property was undeveloped, vacant land. In addition, the Site Representative reported that the Site has never been developed. Therefore, it was determined that the Phase One Property has never been developed.

3.1.3 Fire Insurance Plans

Golder conducted a search of available Fire Insurance Plans (FIPs) for the Phase One Property and the surrounding properties within the Phase One Study Area. FIPs were not available for the Phase One Property or the Phase One Study Area.

3.1.4 Chain of Title

From Golder's review of aerial photography and information provided by the Site Representative, the Phase One Property has never been developed. Chain of Title information was not ordered as it was deemed that the other information from the records review would satisfy the objectives of the records search and that the information to be provided in a Chain of Title would not contribute additional environmental information relevant to the Phase One ESA.

3.1.5 City Directories

Based on the review of the aerial photographs, the Site has never been developed and the surrounding lands have primarily been occupied by vacant or agricultural land with a few residential and farm properties. As such, street directories for the Site and surrounding properties were not reviewed as they would not likely provide any further information.

3.1.6 Environmental Reports

As part of the Phase One ESA, Golder reviewed the environmental reports listed below which were previously completed by Golder for the lands within the Phase One Study Area:

- **"2016 SNC Phase I ESA"**, Phase I Environmental Site Assessment of South Nepean Collector Phase 2, Bren-Maur Road at Longfields Drive to Strandherd Drive, Ottawa, Ontario, dated March 2016, prepared by Golder Associates Ltd. for Novatech Engineering Consultants Ltd.

- **"2016 SNC Phase II ESA"**, Phase II Environmental Site Assessment and Materials Management Plan, South Nepean Collector Phase 2, Ottawa, Ontario, dated April 2016, prepared by Golder Associates Ltd. for Novatech Engineering Consultants Ltd.

The 2016 SNC Phase I and II ESAs were completed for the proposed construction/extension of Phase 2 of the South Nepean Collector (SNC) sanitary trunk sewer from Bren-Maur Road at Longfields Drive to Strandherd Drive in Ottawa, Ontario. The western portion of the SNC sewer alignment is located on the adjacent lands south and west of the Site and a small portion of the alignment intersects the southeastern portion of the Site. The remaining portions of the SNC sewer alignment are not located within the Phase One Study Area. Based on the review of the 2016 SNC Phase I and II ESAs, the following is of note for the Site:

- The adjacent property south of the Site at 3392 Jockvale Road was formerly occupied by a Gamble's Nursery (a commercial nursery) and a private residence in 2010. The property was used continuously as a nursery since its development in approximately 1965. The eastern portion of this property has been occupied by a residential dwelling, a storage shed, 13 greenhouses and a retail office and the western portion of this property consisted of agricultural fields with dense vegetation;
- Activities at the adjacent nursery included the planting and growing of various annual and perennial plant species from seed for sale to the general public in the spring;
- The residential dwelling, retail office and the greenhouses on the former nursery property at 3392 Jockvale Road were all heated by oil-fired forced air furnaces. The heating oil was stored in a fuel ASTs on the property and inside the residential dwelling. In addition, the farm equipment was fueled with diesel stored in an AST between two of the greenhouses on the property. A total of 10 heating oil ASTs and one diesel AST were present on the nursery property in 2010. At this time, staining was also observed in several of the greenhouses, in the storage shed and around the ASTs, from the use of heating oil around the former nursery property;
- The fuel ASTs and greenhouses were removed from the nursery property between 2010 and 2014;
- In 2014, the adjacent nursery property was used as a staging area for the construction of the nearby Jockvale Bridge and at time this, fill material was present on the property. However, a City of Ottawa employee reported that excavated soil from the Jockvale bridge construction was stockpiled at the nursery property and then spread/levelled in the entire yard at the end of construction, including filling back to the temporary access routes for the bridge construction. As such, the presence of this fill material was not considered to be an issue of concern given that it has come from the area surrounding the Jockvale Bridge which not does have any reported soil contamination.
- Several borehole and monitoring wells were completed on the former nursey property during a Phase II ESA completed by others in 2010, hereinafter referred to as the "Former Nursery Phase II ESA". The 2010 Phase II ESA also included the collection of several shallow soil samples from four general operation areas on the property: in the vicinity of the ASTs; in the storage shed; in the western agricultural fields; and, in the greenhouses. Groundwater quality was also tested at eight locations. Staining and petroleum hydrocarbon (PHC) odours were observed in several surface soil samples collected in vicinity of the heating oil ASTs.

However, no significant odours or staining were detecting in any of the soil samples collected from the boreholes and no hydrocarbon odour, hydrocarbon sheen or iridescence, or other visual or olfactory indications of negative impact were observed in any of the groundwater samples collected from the property;

- The soil and groundwater analytical results obtained during the 2010 Phase II ESA were compared to the 2004 MOE Table 2 Standards, Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional property use and the 2004 MOE Table 3 Standards, Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional property use presented in the Ontario Ministry of the Environment and Climate Change (MOE)'s "Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act", dated 9 March 2004 ("2004 MOE Table 2 Standards" and "2004 MOE Table 3 Standards", respectively). The soil and groundwater analytical results were also compared to the currently applicable 2011 MOE Table 2 Standards for Agricultural or Other property use, given that the property was occupied by agricultural land at the time of the 2010 Phase II ESA, as well as for Residential/Parkland/Institutional property use as the property was expected to be redeveloped in the future to parkland and/or residential land use. It is noted that the standards currently applicable to this Site are the 2011 MOE Table 2 Standards for Residential/Parkland/Institutional property use as the Site is proposed to be redeveloped with residential properties and is not connected to the municipal water supply. Based on the review of the soil and groundwater analytical results, the following exceedances were identified:

  - PHC fractions 2 and 3 (PHC F2 and F3) exceeded the 2004 MOE Table 2 and 3 Standards, as well as the 2011 MOE Table 2 Standards for agricultural and residential property use standards in one surface soil sample and its duplicate collected inside one of the greenhouses located along the northern portion of the property. This sample was collected from the upper 0.05 m of soil from an area of surface stained soil located adjacent to a heating oil furnace and fuel AST. This area of PHC impacted shallow soil was located approximately 5 m south of the southeast corner of the Site; however, a deeper soil sample collected from a depth of 2.44 to 3.02 mbgs from an adjacent and downgradient borehole did not have any detections of PHCs fractions 1 to 4 (PHCs F1 to F4). In addition, the groundwater sample collected from the monitoring well installed in the nearby borehole did not have detections of PHCs F1 to F4. Therefore, the PHC impacts in this location were inferred to be localized to the area of the heating oil furnace and AST and limited to the shallow, near surface soil having originated from isolated spills. There was no evidence of recent of ongoing leakage from any of the heating oil storage and distribution equipment.

  - PHC impacts were identified in two other surface soil sample locations collected from stained surface areas near a heating oil furnace and/or AST. They were collected at least 30 m south of and downgradient from the Site and were inferred to be localized to the shallow soil in the immediately vicinity of the heating oil furnaces and/or ASTs.

  - Shallow soil impacts with concentrations of boron, electrical conductivity (EC) and sodium adsorption ratio (SAR) exceeding all of the aforementioned standards were identified within the greenhouses and storage shed associated with past fertilizer application. Cyanide was also identified at three of these locations associated with past pesticide applications. Testing results indicate that the cyanide impacts

are limited to the upper 0.3 m of soil. In addition, one of the surface soil samples collected from within one of the greenhouses had molybdenum concentrations above the 2011 MOE Table 2 Standards for both agricultural and residential land use as a result of fertilizer applications. Testing results indicate that the pesticide/fertilizer impacts are restricted to the upper 1.0 metres of the soil profile within the greenhouses and exceed the 2011 Table 2 Standards for agricultural and residential property use. These impacts were also inferred to be limited to the shallow soils within the greenhouses and storage shed as they were not found in the shallow soil samples collected from areas of the property outside of the greenhouses or storage shed.

- The groundwater sample from the monitoring well on the east side of the storage shed, approximately 55 m south of and downgradient from the Site, had concentrations of PAHs (benzo(a)pyrene and chrysene) above the 2011 MOE Table 2 Standards.
- The remaining exceedances identified during the 2010 Phase II ESA were not exceedances of the 2011 MOE Table 2 Standards for residential property use (i.e., currently applicable Site standards) and as such, are not discussed.

- The 2016 SNC Phase I ESA identified the following issues of potential environmental concern located within the current Phase One Study Area and relevant to this Phase One ESA which were to be addressed by the 2016 SNC Phase II ESA:
  - The former nursery property at 3392 Jockvale Road was identified as a contaminated site. Previous Phase II ESA testing by others at this City owned property identified that the upper one metre of soil has been impacted by the application of fertilizers and pesticides. The shallow soil contains elevated concentrations of metals, electrical conductivity (EC), sodium adsorption ratio (SAR) and cyanide above the land use standards. The concentration of the pesticide DDT in soil is present above the agricultural land use standard. In addition, three areas of shallow surface soil impacts for petroleum hydrocarbons were identified adjacent to former fuel storage tanks. It was considered that the soil at this property has been adequately characterized and not in need of additional investigation, however, given the compounds found in soil at this property, it was recommended that consideration be given to testing of the shallow soils in the agricultural lands elsewhere along the SNC sewer alignment.
  - A pond was formerly located on a farm property located on the adjacent land west of the Site at 3370 Greenbank Road, which has subsequently been filled in. The origin of the fill used to infill the pond was unknown. The former pond lies within the SNC sewer alignment and was located approximately 170 m west of the Site. It was recommended that the fill quality in this area be evaluated.
  - The sewer alignment crosses through several agricultural properties. These properties have been used for agriculture for more than 60 years. The potential application of pesticides and fertilizers to crops represents a potential issue of concern for shallow soils, similar to those impacts identified at 3392 Jockvale Road. It was recommended that shallow soil samples be analyzed for past fertilizer and pesticides use.

  - Previous information provided by the City of Ottawa indicated that the soil and groundwater along the alignment may contain naturally elevated metals. Testing along the alignment was recommended for the management of excess soils and groundwater. It was recommended that soil samples from each of the geological units (clay and glacial till) be analyzed for metals.

- The 2016 SNC Phase II ESA was completed in two stages. In conjunction with a geotechnical and hydrogeological investigation, Golder carried out the first stage of the 2016 SNC Phase II ESA testing program at select locations to address the issues of potential environmental concern flagged in the 2016 SNC Phase I ESA. A second stage of investigation was subsequently carried out which included resampling of select monitoring wells for additional groundwater quality results to further assist in the evaluation of groundwater disposal.

- As part of the 2016 SNC Phase II ESA, six boreholes were completed along the sewer alignment on the adjacent lands south and west of the Site. Multi-level monitoring wells (one screened in the overburden and one screened in the bedrock) were installed in one of these boreholes and a single well was installed in three other boreholes for subsequent groundwater sampling, hydrogeological testing and water level measurements. Each of these monitoring wells was located on the former nursey property at 3392 Jockvale Road with the exception of one single well that was located on the adjacent lands west of the Site. An additional five boreholes were also completed within the Phase One Study Area for geotechnical purposes only. One of these geotechnical boreholes was completed on the southeastern portion of the Site. This borehole was completed to a depth of 8.23 mbgs. The subsurface conditions encountered at this borehole generally consist of surficial topsoil overlying native deposits of clay and glacial till which consists of a heterogeneous mixture of gravel, cobbles, and boulders in silty sand, to sandy silt to clayey sand.

- The depth to groundwater in the three overburden monitoring wells located on former nursery property ranged from 2.98 to 3.19 mbgs in the August 2015 and the depth to groundwater in the bedrock monitoring well located on this property was approximately 4.10 mbgs in August 2015.

- Groundwater levels measured in the bedrock monitoring well located on the adjacent lands west of the Site were 2.17 mbgs in August 2015 and 1.91 mbgs in April 2016.

- The soil samples collected from the boreholes within the Phase One Study Area and submitted for laboratory analysis were compared to the 2011 MOE Table 1 and Table 3 Standards for residential land use. The soil analytical results were also compared to the current applicable Site standards (i.e., the 2011 MOE Table 2 Standards for residential property use). Based on the soil analytical results, the following was considered noteworthy:

  - One topsoil sample collected from a borehole in an agricultural field west of the Site had a concentration of free cyanide above the 2011 MOE Table 1, Table 2 and Table 3 Standards for residential land use. The cyanide impacts are inferred to be limited to the upper 0.3 metres based on a supplemental cyanide analysis in the next deepest sample at this location and from the results of the cyanide testing done on the shallow soil at the former nursery property at 3392 Jockvale Road. It was noted that the laboratory methodology for cyanide analysis is sensitive to matrix (sediment) interference and therefore it was recommended that additional sampling be undertaken should this material require removal from the alignment to confirm its presence.

- There were no exceedances of the 2011 MOE Table 1 Standard for EC, SAR or metals in the shallow soil samples analyzed for these parameters.
- The sample of fill collected from the infilled pond satisfied both the 2011 MOE Table 1, 2 and 3 Standards for residential land use. Therefore, the fill in this location was considered to be "inert fill".
- One of the native clay samples had an exceedance of barium above the 2011 MOE Table 1 Standards but below the 2011 MOE Table 2 and 3 Standards. The metals in the native clay layer above the MOE Table 1 Standards are attributed to naturally occurring background concentrations found in local clays. Therefore, it was interpreted that the metals are not a contaminant but are naturally occurring in the clay layer. It is likely that naturally occurring metals are present in the clay at the Site.
- The glacial till did not have any exceedances of the 2011 MOE Table 1, 2 or 3 Standards for residential land use.

- The groundwater samples collected from the four monitoring wells located within the Phase One Study Area and submitted for laboratory analysis were compared to the 2011 MOE Table Standards, the City of Ottawa Storm Sewer Discharge Criteria and the City of Ottawa Sanitary and Combined Sewer Discharge Criteria. The groundwater analytical results were also compared to the current applicable Site standards (the 2011 MOE Table 2 Standards for residential property use). Based on the analytical results, the following was considered noteworthy:
  - The parameters of concern (organochlorine pesticides and total cyanide) in the groundwater samples collected from the three monitoring wells within the former Gambles Nursery did not exceed the 2011 MOE Table 2 or Table 3 Standards, the City of Ottawa Sanitary Sewer Discharge Criteria or the City of Ottawa Storm Sewer Discharge Criteria. Therefore, the groundwater on this property was not anticipated to be impacted by the former application of pesticides.
  - One of the groundwater samples collected from a monitoring well on the former nursery property contained a concentration of chloroform above the 2011 MOE Table 2 and Table 3 Standards as well as the City of Ottawa Storm Sewer Discharge Criteria. The source of chloroform was not known; however, it may have be related to municipal water used for wash boring. VOCs exceedances were not found in any of the other groundwater samples and there was no potential VOC source identified. Therefore, the chloroform present in the groundwater sample was not considered to be an exceedance.
  - Elevated total metals and total phosphorous concentrations above the City of Ottawa Storm and Sanitary Discharge Criteria were present in the groundwater as a result of suspended material. Further groundwater sampling completed using the low flow sampling technique to reduce agitation of sediment confirmed that the elevated total metals and total phosphorus concentrations were a result of the sediment in the groundwater. Total and dissolved manganese concentrations above the City of Ottawa Storm Sewer Discharge Criteria were also present in the groundwater samples indicating that manganese may still be present in the groundwater after treatment (sedimentation or filtration) to remove the total suspended solids.

Based on the review of the previous environmental reports, no PCAs were identified on the Site; however, the former presence of the commercial nursery and fuel ASTs located on the adjacent property south of the Site at 3392 Jockvale Road are considered to be off-Site PCAs. The previous environmental reports also indicated

that fill material was used to fill in a pond on the farm property west of the Site; however, given that the sample of this fill material did not contain any exceedances of the 2011 MOE Table 1, 2 or 3 Standards, it is not considered to be a PCA. In addition, fill material was reportedly present on the adjacent nursery property; however, it is not considered to be a PCA given that came from the area surrounding the Jockvale Bridge which not does have any reported soil contamination.

3.2 Environmental Source Information

3.2.1 EcoLog ERIS Report

Golder contracted EcoLog ERIS to conduct a search of environmental sources, including federal, provincial, and private sector databases, for information on the Phase One Property and Study Area. The EcoLog ERIS report is provided in Appendix B.

The databases searched included the following:

Federal	Provincial	Private
▪ Contaminated Sites on Federal Land ▪ Environmental Effects Monitoring ▪ Environmental Issues Information System ▪ Federal Convictions ▪ Fisheries & Oceans Fuel Storage Tanks ▪ Indian & Northern Affairs Fuel Tanks ▪ National Analysis of Trends in Emergencies System (NATES) ▪ National Defence & Canadian Forces Fuel Storage 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	▪ Abandoned Aggregate Inventory ▪ Abandoned Inventory ▪ Aggregate Mine Information System ▪ Borehole ▪ Certificates of Approval ▪ Certificates of Property Use ▪ Commercial Fuel Oil Tanks ▪ Compliance and Convictions ▪ Drill Hole Database ▪ Environmental Activity and Sector Registry ▪ Environmental Compliance Approval ▪ Environmental Registry ▪ Fuel Storage Tank ▪ Fuel Storage Tank – Historic ▪ Inventory of Coal Gasification Plants and Tar Sites ▪ Inventory of PCB Storage Sites ▪ Landfill Inventory Management Ontario ▪ List of TSSA Expired Facilities ▪ Mineral Occurrences ▪ Non-Compliance Reports ▪ Ontario Oil and Gas Wells ▪ Ontario Regulation 347 Waste Generators Summary ▪ Ontario Regulation 347 Waste Receivers Summary ▪ Ontario Spills ▪ Orders ▪ Permit to Take Water ▪ Pesticide Register	▪ Anderson's Storage Tanks ▪ Anderson's Waste Disposal Sites ▪ Automobile Wrecking & Supplies ▪ Canadian Mine Locations ▪ Canadian Pulp and Paper ▪ Chemical Register ▪ ERIS Historical Searches ▪ Oil and Gas Wells ▪ Retail Fuel Storage Tanks ▪ Scott's Manufacturing Directory

Federal	Provincial	Private
	▪ Private and Retail Fuel Storage Tanks ▪ Record of Site Condition ▪ TSSA Historic Incidents ▪ TSSA Incidents ▪ TSSA Pipeline Incidents ▪ TSSA Variances for Abandonment of Underground Storage Tanks ▪ Waste Disposal Sites – MOECC 1991 Historical Approval Inventory ▪ Waste Disposal Sites – MOECC CA Inventory ▪ Wastewater Discharger Registration Database ▪ Water Well Information System	

The complete EcoLog ERIS report, including a brief description of each of the databases searched for the Phase One ESA, is included in Appendix B.

The following is a summary of the findings as identified within the EcoLog ERIS report for the Site and for the surrounding properties within the Phase One Study Area:

On-Site

The EcoLog ERIS report identified that there were no records found for the Site.

Surrounding Properties within 250 metres of the Site

Noteworthy records for the Phase One Study Area (excluding the Phase One Property) included the following:

- Borehole (BORE) – There are 10 borehole listings within the Phase One Study Area. The boreholes were completed between September March 1961 and June 2004 and were advanced to depths ranging between 5.8 metres below ground surface (mbgs) and 32.6 mbgs. Limestone bedrock was encountered in five of the boreholes at depths ranging between 5.8 mbgs and 11.9 mbgs;
- ERIS Historical Searches (EHS) – The Ecolog ERIS report identified two historical search listings that were completed within the Phase One Study Area;
- Ontario Regulations 347 Waste Generators Summary (GEN) – A school located immediately north of the Site at 3333 Greenbank Road was listed as a waste generating site. The records indicate that the adjacent school was approved as a waste generator of various wastes between 2002 and 2016. The waste classes are included in the Ecolog ERIS report in Appendix B;
- Ontario Spills (SPL) – There is one record of a spill occurring within the Phase One Study Area. The spill reportedly occurred at a private residence located at 3415 Jockvale Road, approximately 145 m southeast of the Site, when 12 L of furnace oil spilled to the ground from a heating oil tank due to a pipe leak. The record indicated that the spill occurred in 1998 that the spill was cleaned up and that environmental impact due to the spill was not anticipated; and,

- Water Well Information System (WWIS) – There are 15 water wells within the Phase One Study Area that were constructed between February 1954 and June 2011 for domestic, livestock or monitoring purposes. The depths of the wells ranged from 6.1 mbgs and 77.4 mbgs. Additional information regarding the water wells is included in the Ecolog ERIS report in Appendix B.

The Ecolog ERIS report did not identified any PCAs on the Site or within the Phase One Study Area. A 12 L furnace oil spill was reported to have occurred on the surrounding lands southeast of the Site; however, given the distance between the Site and the location of the spill, that the spill was not significant in size and that environmental impact due to the spill was not anticipated, it is not considered to be an issue of potential environmental concern. The EcoLog ERIS report identified a waste generating site within the Phase One Study Area. The presence of waste generators alone is not considered an issue of concern on its own as there is no information as to the handling practices at the identified sites; however, it is an indication of the presence of chemical storage.

3.2.2 Ministry of the Environment and Climate Change

The Ottawa district office of the Ontario Ministry of Environment and Climate Change (MOECC) was contacted (refer to copy of correspondence in Appendix A) to provide an Index Report with respect to active orders and approvals for the Site as detailed below:

- Active orders under the Environmental Protection Act (EPA), the *Ontario Water Resources Act* (OWRA), and the *Pesticides Act* (PA).
- Approvals under Sections 9 and 39 of the EPA as well as Sections 52 and 53 of the OWRA.

A formal response from the MOECC was received by Golder on March 29, 2017. The MOE response indicated that no Active Orders or Certificate of Approvals have been issued for the Site.

3.2.3 City of Ottawa

Golder forwarded a request (refer to copy of correspondence in Appendix A) to the City of Ottawa (City), for the following information:

- Active orders under the EPA, the OWRA, and the PA
- Approvals
- Reports relating to environmental concerns
- Records of non-compliance or regulatory concerns
- Dumping infractions, spills or discharges to the environment
- Violations of sewer use or environmental by-laws
- Historic information related to landfill or dump sites on or in proximity to the Site
- Any other environmental information

The City of Ottawa responded to Golder's request on April 6, 2017 which included a copy of the City of Ottawa HLUI (refer to copy of the HLUI in Appendix A). Based on the review of the City of Ottawa HLUI, there were no records identified for the Site or noteworthy records for the surrounding properties.

3.2.4 Ministry of Natural Resources and Forestry (MNRF)

An information request was sent to the Ministry of Natural Resources and Forestry (MNRF) on March 8, 2017. Records requested included any information relating to areas of natural significance in the vicinity of the Site, as well as any other environmental concerns that may be related to the Site and surrounding area.

At the time of preparation of this report a response from the MNRF was not received.

3.2.5 Technical Standards and Safety Authority, Fuel Safety Division Records

The Technical Standards and Safety Authority (TSSA) maintains records related to registered underground storage tanks (USTs) for petroleum-related products. The TSSA was contacted to establish the status of the Site and to identify outstanding instructions, incident reports, fuel oil spills or contamination records.

Ms. Suman Guram of the TSSA replied on March 14, 2017 and indicated that the TSSA did not have any records for the addresses searched for the Phase One Property or in the Phase One Study Area.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs of the Site and neighbouring properties were obtained from the National Air Photo Library (Natural Resources Canada) for the years 1947, 1953 and 1985. In addition, the aerial photographs for 1976, 1991, 1999, 2002, 2005, 2007, 2008, 2009 and 2014 from the City of Ottawa geo-map (http://maps.ottawa.ca/geoOttawa/) were reviewed on-line. Golder selected aerial photographs based on availability and date intervals to help develop an understanding of the history of the development of the Phase One Property and Phase One Study Area. The information obtained from the aerial photographs was limited by the quality and scale of the available aerial photographs. The earliest aerial photograph available was from 1947. The aerial photographs from 1947, 1953 and 1985 are included in Appendix D.

Based on the aerial photographs, the Phase One Property has never been developed and has been occupied by agricultural and/or vacant land with a few rows of trees since at least 1947. A small pile of debris was visible on the southwest portion of the Site in the 2005 and subsequent aerial photographs and several bales of hay were visible on the southeast corner of the Site in the 1999 and subsequent aerial photographs. In addition, what appears to be a piece of metal farm equipment has been located on the southeast corner of the Site since sometime between 1999 and 2002.

The surrounding lands north of the Site were occupied by agricultural and/or vacant land until sometime between 1999 and 2002 when they were developed with a school. Similarly, the adjacent lands east of the Site consisted of agricultural and/or vacant land until a large stormwater management pond was constructed on the east side of Jockvale Road in 2008.

The adjacent lands west of the Site were developed prior to 1947, at which time they were occupied by a farm property at 3370 Greenbank Road and agricultural or vacant land. Increasing residential development occurred on these lands between 1953 and 1976.

The surrounding lands south of the Site were developed prior to 1947 with a few residential properties south and southeast of the Site but primarily consisted of agricultural and/or vacant land as well as the Jock River. The 1947 aerial photograph shows that a residential house and storage shed are located on the adjacent property south of the Site (3392 Jockvale Road). This property appeared to transition into a nursery sometime between 1953 and 1976, with several greenhouses and a retail office constructed on the property between 1953 and 2002. The greenhouses were removed from this property prior to 2014. In the 2014 aerial photograph, construction materials, equipment, trailers and fill material are present on the adjacent nursery property, associated with the construction of the nearby Jockvale Bridge.

The aerial photograph review of the Site and surrounding area (within approximately 250 m) did not identify any PCAs on the Site or within the Phase One Study Area. The aerial photographs show that fill material was present on the former nursery property located immediately south of the Site. However, as previously discussed in Section 3.1.6 of this report, the presence of this fill material is not considered to be a PCA.

3.3.2 Topography, Hydrology and Geology

The following records were reviewed to identify topographic, geologic and hydrogeological conditions at the Site. A topographic map (Ontario Base Map) showing the Site and the Phase One Study Area and the location of any water bodies is provided in Figure 3. Additional information on Site features, as observed at the time of the Site visit, is provided in Section 5.

Topic	Conditions	Comment / Source
Topography of Site and Surrounding Area	The topography of the Site and surrounding area has a gentle downward slope to the south, southwest and southeast from a knoll located on the school property immediately north of the Site.	Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance
Overburden Soils	The geological mapping indicated that the Site in underlain by till, plain with local relief < 5m. The 2016 SNC Phase II ESA indicated that one borehole was completed on the southeastern portion of the property. The subsurface conditions encountered at this borehole generally consist of surficial topsoil overlying native deposits of clay and glacial till which consists of a heterogeneous mixture of gravel, cobbles, and boulders in silty sand, to sandy silt to clayey sand.	2016 SNC Phase II ESA, Bélanger, J. R. 2008 Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311, 1 DVD.
Type of Bedrock	Oxford Formation: dolostone, minor shale and sandstone.	Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 219

Topic	Conditions	Comment / Source
Depth to Bedrock	The depth to bedrock is expected to be between 10 and 15 mbgs with the exception of the easternmost portion of the Site where the depth to bedrock is expected to be between 5 mbgs and 10 mbgs.	2010 Bélanger, J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open File D3256, 2001
Inferred Near Surface Groundwater Flow	Local groundwater is anticipated to flow south to the Jock River located approximately 95 m south of the Site or to a stormwater management pond located approximately 95 m east of the Site.	Site and surrounding area observations, Figure 1 – Key Plan and Figure 3 – Topographic Map and Areas of Natural Significance
Site Grade Relative to the Adjoining Properties	The Site generally follows the topography of the area and is below the grade of the surrounding properties north of the Site and above the grade of the surrounding properties east, west and south of the Site.	Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance
Depth to Groundwater	Not identified. However, the 2016 SNC Phase II ESA indicated that the depth to groundwater in the three overburden monitoring wells located on former nursery property ranged from 2.98 to 3.19 mbgs in the August 2015 and the depth to groundwater in the bedrock monitoring well located on this property was approximately 4.10 mbgs in August 2015.	2016 SNC Phase II ESA

It should be noted that local groundwater flow may be influenced by underground utilities (i.e., service trenches) and building structures. For example, the gravel pack used around utilities, such as a water line, can act as interceptors and redirect groundwater flow along the direction of the pipe. If a more accurate description of geology, groundwater flow and groundwater quality is required, a subsurface investigation would be necessary.

3.3.3 Fill Materials

Topic	Conditions	Comment / Source
Fill Materials	No fill materials were observed or reported. No piles of fill material were observed on the Site.	Site observations

3.3.4 Water Bodies and Areas of Natural Significance

Topic	Conditions	Comment / Source
Nearest Open Water Body	The nearest open water bodies are the Jock River and a stormwater management pond located approximately 95 m south and east of the Site, respectively.	Site observations and Figure 1 – Key Plan

Areas of Natural Significance	No areas of natural and scientific interest (ANSI) are known to be located on the Site or on the Phase One Study Area. Based on available information, the Site is not considered to be an environmentally sensitive area. As such, the Site is not considered an area of natural significance. A response from the MNRF has not been received to confirm this.	Figure 3 (Topographic Map and Areas of Natural Significance)

3.3.5 Well Records

Topic	Conditions	Comment / Source
Water Wells on Site (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling date, use)	Based on the EcoLog ERIS report no water wells are located on the Site.	EcoLog ERIS Report and Site observations
Water Wells on the Neighbouring Properties (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling rate, use)	Based on the EcoLog ERIS report, there are 15 water wells within the Phase One Study Area that were constructed between February 1954 and June 2011 for domestic, livestock or monitoring purposes. The depths of the wells ranged from 6.1 mbgs and 77.4 mbgs. Additional information regarding the water wells is included in the Ecolog ERIS report in Appendix B.	EcoLog ERIS Report

3.4 Site Operating Records

At the time of the Site visit, the Phase One Property was undeveloped. No Site operating records were provided to Golder for review.

4.0 INTERVIEWS

At the time of the Site visit, Golder conducted an interview with Catherine Tremblay of Minto (hereinafter referred to as the "Site Representative") to discuss information about the historical and current activities carried out on the Site. Pursuant to the requirements O.Reg. 153/04, the Site Representative was interviewed as the "current owner" with knowledge of current Site operations.

Relevant information obtained during the interview and Site visit is provided in Section 5.0.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

Aaron Bradshaw of Golder visited the Site on February 28, 2017. The Site visit consisted of a walk-around the Site along with a cursory inspection of surrounding properties from the Site and publicly accessible areas. The weather conditions were sunny and the temperature was approximately -10°C. At the time of the Site visit, the Site was undeveloped, vacant land that was vegetated and primarily snow covered.

Photographs of relevant features noted during the Site visit are provided in Appendix C.

5.2 Specific Observations at Phase One Property

The specific observations made during the Site visit are presented in the following sections.

Topic	Observations	Source
Structures **Number and Age of Buildings on the Site**	No buildings or structures were present on the Site.	Site observations and SiteRepresentative
General Descriptions of Each Building (including improvements)	Not applicable.	Site observations and Site Representative
Building Areas	Not applicable.	Site observations
Number of Floors (include all levels, whether above or below ground)	Not applicable.	Site observations
Number, Age, and Depth of Levels Below Ground Level	Not applicable.	Site observations
Number and Details of all Aboveground Storage Tanks (ASTs)	No evidence (fill/vent pipes extending through walls or slabs/ground surface, no staining or any obvious odours) was observed during the Site visit to indicate the current or former presence of fuel or chemical ASTs on the Site.	Site observations and Site Representative
Number and Details of all Underground Storage Tanks (USTs)	No evidence (fill/vent pipes extending through walls or slabs/ground surface, no staining or any obvious odours) was observed during the Site visit to indicate the current or former presence of fuel or chemical USTs on the Site.	Site observations and Site Representative
Underground Utilities **Potable and Non-Potable Water Sources**	The Site is not connected to the municipal water supply. There were no water sources identified at the Site at the time of the Site visit.	Site observations
Utility Lines Present (i.e., Electrical, Natural Gas, other)	None identified.	Site observations
Sanitary/Process Wastewater Receptor	No sanitary or process wastewater is generated on-Site.	Site observations
Sanitary Sewer Connection	The Site is not connected to the municipal sanitary sewer.	Site observations
Septic Systems	None identified.	Site observations
Storm Water Flow	Storm water run-off is through natural soil infiltration.	Site observations
Storm Sewer Connection	The Site is not connected to the municipal storm sewer.	Site observations

Topic	Observations	Source
Interior of Structures **Entry and Exit Points for Site Buildings**	No buildings or structures were present on the Site.	Site observations
Existing and Former Heating System(s) (include fuel type / source)	As no buildings or structures were present on the Site, there were no existing heating systems observed or reported.	Site observations
Existing and Former Cooling System(s) (include fuel type / source)	As no buildings or structures were present on the Site, there were no existing cooling systems observed or reported.	Site observations
Drains, Pits, and Sumps (include current use, if any, and former use)	As no buildings or structures were present on the Site, there were no drains, pits, or sumps observed or reported.	Site observations
Unidentified Substances	None identified.	Site observations
Floor Stains or Corrosion Located near a Potential Discharge Location	None identified.	Site observations
Miscellaneous Exterior **Location of any Current and Former Wells**	None identified.	Site observations
Ground Cover (i.e., grass, gravel, soil, or pavement, etc.)	The Site was covered with vegetation and was primarily snow covered. A few rows of trees were present on the Site.	Site observations
Current or Former Railway Lines or Spurs	None observed or reported.	Site observations
Presence of Stained Soil, Vegetation, or Pavement	None observed; however the Site was primarily snow covered at the time of the Site visit.	Site observations
Presence of Stressed Vegetation	None observed; however the Site was primarily snow covered at the time of the Site visit.	Site observations
Areas Where Fill and/or Debris Materials Appear to Have Been Placed	No piles of fill material were observed during the Site visit; however, an area of debris was observed on the southwest portion of the Site. The debris included shingles, wood and metal debris. In addition, an old piece of metal farm equipment was located on the southeast corner of the Site.	Site observations
Potentially Contaminating Activity	None identified.	Site observations and Site Representative
Unidentified Substances	None identified.	Site observations

5.2.1 Enhanced Investigation Property

The Site has never been developed and is therefore not considered to be an enhanced investigation property as defined by O. Reg. 153/04.

5.3 Surrounding Land Use

During the Site visit, a visual reconnaissance of the outdoor operations in the Phase One Study Area was carried out from the Site and publicly accessible areas.

The surrounding properties include residential and institutional land uses as well as greenspaces/vacant land, as illustrated on Figure 2.

North: A school located between Greenbank Road and Jockvale Road and vacant land located beyond Jockvale Road.

East: Jockvale Road and Longfields Drive followed by a stormwater management pond and some vacant land.

South: Vacant and treed land as well as the Jock River which is located south and southeast of the Site. A few residential houses were also located southeast of the Site. In addition, construction activities for the SNC sewer were taking place on the adjacent land south of the Site. The former nursey property at 3392 Jockvale Road was being used as a lay down area for the construction of the SNC sewer.

West: Greenbank Road followed by vacant and treed land, a few residential houses located along the west side of Greenbank Road as well as the Jock River. The farm property and associated structures at 3370 Greenbank Road are no longer present. Construction activities for the SNC sewer were taking place on the lands west of the Site.

5.4 Written Description of Investigation

The Site is located at 3311 Greenbank Road in Ottawa, Ontario and is bounded to the west by Greenbank Road and to the east by Jockvale Road. At the time of the Site visit, which was conducted on February 28, 2017, the Site consisted of an approximately 13.95 acre parcel of undeveloped, vacant land that was vegetated and primarily snow covered. A few rows of trees were present on the Site and a rock pile was present along a row of trees running north-south near the central portion of the Site.

During the Site visit, an area of debris was observed on the southwest portion of the Site. The debris included shingles, wood and metal debris. In addition, an old piece of metal farm equipment was located on the southeast corner of the Site.

The surrounding properties within the Phase One Study Area included residential and institutional land uses as well as vacant land.

6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses of the Site

The following summarizes the current and past uses of the Phase One Property:

Year(s)	Name of Owner(s)	Description of Property Use	Property Land Use according to Reg.153/04	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Prior to 1947 to Present (2017)	The Site is owned by the City of Ottawa; however, the name of prior owners is unknown.	Undeveloped	Agricultural or other use	The 1947 and subsequent aerial photographs show that the Site is undeveloped agricultural and/or vacant land. No aerial photograph coverage was available for prior to 1947. At the time of the Site visit, the Site was undeveloped, vacant land. In addition, the Site Representative indicated that the Site has never been developed and is currently owned by the City of Ottawa.

6.2 Potentially Contaminating Activity

Potentially contaminating activities, which if currently or historically carried out at a Site, may contribute to an area of potential environmental concern (APEC). Based on the information obtained as part of this Phase One ESA, the following PCA was identified within the Phase One Study Area:

Location	Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Study Area	**#28. Gasoline and Associated Products Storage in Fixed Tanks** – Former presence of 11 fuel ASTs on the nursery property formerly located on the adjacent property south of the Site at 3392 Jockvale Road.	Previous Environmental Reports	Staining was previously observed in the vicinity of some of the ASTs and associated furnaces and PHC impacts were identified in the shallow soil near three of the fuel ASTs, one of which was located approximately 5 m south of the Site. However, given that these impacts were inferred to be limited to the shallow soils and localized to the area of the fuel ASTs and furnaces, that the ASTs and associated PHC impacts were located downgradient from the Site and that there was no evidence of ongoing leaks from the fuel ASTs or furnaces, it is likely that these impacts have not migrated onto the Site. In addition, future redevelopment of the Site is likely to include the removal of any shallow soil impacts on the Site, if present. Therefore, this PCA is not considered to represent an APEC on the Site.

Location	Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Study Area	**#40. Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications** – Former presence of a commercial nursery and associated application of pesticides and fertilizers on the adjacent property south of the Site at 3392 Jockvale Road.	Previous Environmental Reports, aerial photographs and Site Representative	The previous environmental reports indicate that boron, EC, SAR, metals and cyanide impacts were found in the shallow soils within greenhouses and storage shed on this property as a result of past pesticide and fertilizer applications. The impacts were limited to the upper 1.0 m of shallow soil within the greenhouses and storage shed. PAH impacted groundwater was also present in a monitoring well located approximately on the southern portion of this property; approximately 55 m south of and downgradient from the Site. However, given the distance and downgradient location with respect to the Site, the PAH impacts in groundwater are not likely to have migrated onto the Site. In addition, given that the contamination in the soil resulting from the former pesticide and fertilizer applications were limited to the shallow soils within the greenhouses and were located downgradient from the Site, it is unlikely that these impacts have migrated onto the Site. Additionally, future redevelopment of the Site is likely to include the removal of any shallow soil impacts on the Site, if present. Therefore, this PCA is not considered to represent an APEC on the Site.

In addition, an area of debris was observed on the southwest portion of the Site. The debris included shingles, wood and metal debris. An old piece of metal farm equipment was also located on the southeast corner of the Site. The presence of this waste is not considered to be an on-Site PCA; however, it is considered to be a property management issue and should be removed from the Site prior to development.

6.3 Areas of Potential Environmental Concern

Based on the information obtained as part of this Phase One ESA, none of the PCAs identified were considered to represent an APEC on the Phase One Property.

6.4 Conceptual Site Model

A Conceptual Site Model of the Phase One Study Area (as required by O.Reg. 153/04) is presented in a series of Figures 1 to 8 (Figure 1: Key Plan, Figure 2: Site Plan, Figure 3: Topographic Map and Areas of Natural Significance, Figure 4: Surficial Geology, Figure 5: Bedrock Geology, Figure 6: Drift Thickness, Figure 7: Soil Survey Complex (Ontario Soils), and Figure 8: Physiography Map).

The combined set of figures shows:

- Existing buildings and structures
- Water bodies and Areas of Natural Significance (if present) located in the Phase One Study Area
- Drinking water wells on the Phase One Property
- Roads (including names) within the Phase One Study Area
- Uses of properties adjacent to the Phase One Property
- Location of identified PCAs in the Phase One Study Area (including any storage tanks)

The following describes the Phase One ESA Conception Site Model (CSM) for the Site based on the information obtained and reviewed as part of this Phase One ESA:

- At the time of the Site visit, which was conducted on February 28, 2017, the Site consisted of an approximately 13.95 acre (5.65 hectare) parcel of undeveloped, vacant land that was vegetated and snow covered;
- According to the EcoLog ERIS report, there are no water wells present on the Site. No water wells were observed on the Site at the time of the Site visit;
- No piles of fill were observed on the Site at the time of the Site visit;
- The nearest water bodies are the Jock River and a stormwater management pond located approximately located approximately 95 m south and east of the Site, respectively;
- No areas of natural and scientific interest (ANSI) are known to be located on the Site or on the Phase One Study Area. Based on available information, the Site is not considered to be an environmentally sensitive area. As such, the Site is not considered an area of natural significance; however, a response from the MNRF has not been received to confirm this;
- At the time of the Phase One ESA, the surrounding properties within the Phase One Study Area were comprised of residential and institutional land uses or were vacant land;
- The roads located within the Phase One Study Area at the time of the Site visit were Greenbank Road, Jockvale Road, Longfields Drive and Paul Metivier Drive;
- There are no underground services on the Site. As such, there is no potential for underground utilities to affect contaminant distribution and transport (if present);
- The geological mapping indicated that the Site in underlain by till, plain with local relief < 5m. The 2016 SNC Phase II ESA indicated that one borehole was completed on the southeastern portion of the property. The subsurface conditions encountered at this borehole generally consist of surficial topsoil overlying native deposits of clay and glacial till which consists of a heterogeneous mixture of gravel, cobbles, and boulders in silty sand, to sandy silt to clayey sand;
- Bedrock at the Site is of the Oxford Formation (dolostone, minor shale and sandstone);

- Groundwater is anticipated to flow south to the Jock River located approximately 95 m south of the Site or north to the stormwater management pond located approximately 95 m east of the Site; and,
- Two off-Site PCAs were identified in the Phase One Study Area, as shown on Figure 2. Based on previous information from previous environmental assessments in the Phase One Study Area, Site characteristics and the locations of the off-Site PCA, no Areas of Potential Environmental Concern were identified for the Phase One Property.

6.4.1 Uncertainty and Absence of Information

At the time of preparation of this report, a response to Golder's request for information had not been received from the MNRF. However, based on the body of information acquired, it is considered that the absence of this information should not likely affect the final conclusion of the Phase One ESA. Golder will review responses to these regulatory requests upon their receipt and, should the responses affect the findings of this Phase One ESA, they will be forwarded to Minto. There were no material deviations to the Phase One ESA requirements set out in O.Reg. 153/04 that would cause uncertainty or absence of information that would affect the validity of the Phase One Conceptual Site Model or the findings of this Phase One ESA.

7.0 CONCLUSIONS

Given that no APECs were identified on the Site during the Phase One ESA, a Phase Two ESA is not recommended to be carried out at the Site at this time.

7.1 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

Given that the Phase One Property is currently undeveloped and is to be redeveloped with a residential subdivision, there will be no change in the land use from less sensitive to more sensitive. As such, there is no mandatory requirement for a RSC to be filed for the Site.

8.0 REFERENCES

The following documents and/or data were cited in this report:

Source	Date
Ontario Regulation 153/04 as amended	October 31, 2011
Bélanger, J. R. 2008 Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311, 1 DVD.	2008
Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 219	2007
2010 Bélanger, J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open File D3256, 2001	2010
Aerial Photographs – National Air Photo Library (Natural Resources Canada)	1947, 1953 and 1985
Aerial Photograph Images – geoOttawa (http://maps.ottawa.ca/geoOttawa/)	1976, 1991, 1999, 2002, 2005, 2007, 2008, 2009 and 2014
EcoLog ERIS report	March 9, 2017
Ontario Ministry of the Environment and Climate Change	March 29, 2017
City of Ottawa	April 6, 2017
Ministry of Natural Resources and Forestry	Pending response
Technical Standards and Safety Authority	March 14, 2017

9.0 LIMITATIONS AND USE OF REPORT

This report (the “Report”) was prepared for the exclusive use of Minto Communities - Canada for the express purpose of providing advice with respect to the environmental condition of the Site. In evaluating the Site, Golder Associates Ltd. (Golder) has relied in good faith on information provided by others as noted in the Report. We have assumed that the information provided is factual and accurate. We accept no responsibility for any deficiency, misstatement or inaccuracy contained in this Report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted, or incomplete or inaccurate historical information from the various agencies. Any use which a third party makes of this Report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third party. If a third party requires reliance on this Report, prior written authorization from Golder is required. Golder disclaims any responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

The scope and the period of Golder’s assessment are described in this Report, and are subject to restrictions, assumptions and limitations. Except as noted herein, the work was conducted in accordance with the scope of work and terms and conditions of Golder’s proposal. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site referenced in the Report. Conditions may therefore exist which were not detected given the limited nature of the assessment Golder was retained to undertake with respect to the Site and additional environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in the Report. Golder’s opinions are based upon information that

existed at the time of the writing of the Report. It is understood that the services provided for in the scope of work allowed Golder to form no more than an opinion of the actual conditions at the Site at the time the Site was visited, and cannot be used to assess the effect of any subsequent changes in any laws, regulations, the environmental quality of the Site or its surroundings. Asbestos and mould surveys were not performed. If a service is not expressly indicated, do not assume it has been provided.

The results of an assessment of this nature should in no way be construed as a warranty that the Site is free from any and all contamination from past or current practices.

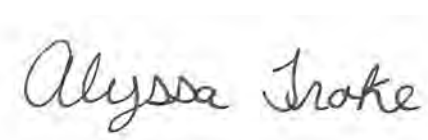
10.0 STATEMENT OF COMPLETION

The undersigned confirm that this Phase One Environmental Site Assessment was conducted in a manner consistent with the expected standard of care for the consulting industry in Ontario and meets the requirements for Phase One ESAs as set out in O.Reg. 153/04, however this report has not been completed with the intent of filing a Record of Site Condition.

11.0 CLOSURE

We trust that the information presented in this report meets your current requirements. Should you have any questions or concerns, please do not hesitate to contact the undersigned.

GOLDER ASSOCIATES LTD.



Alyssa Troke, B.Sc., E.I.T.
Environmental Consultant

Eric Wilson, P.Eng., PMP
Associate - Senior Environmental Project Manager

AT/EDW/mvrd
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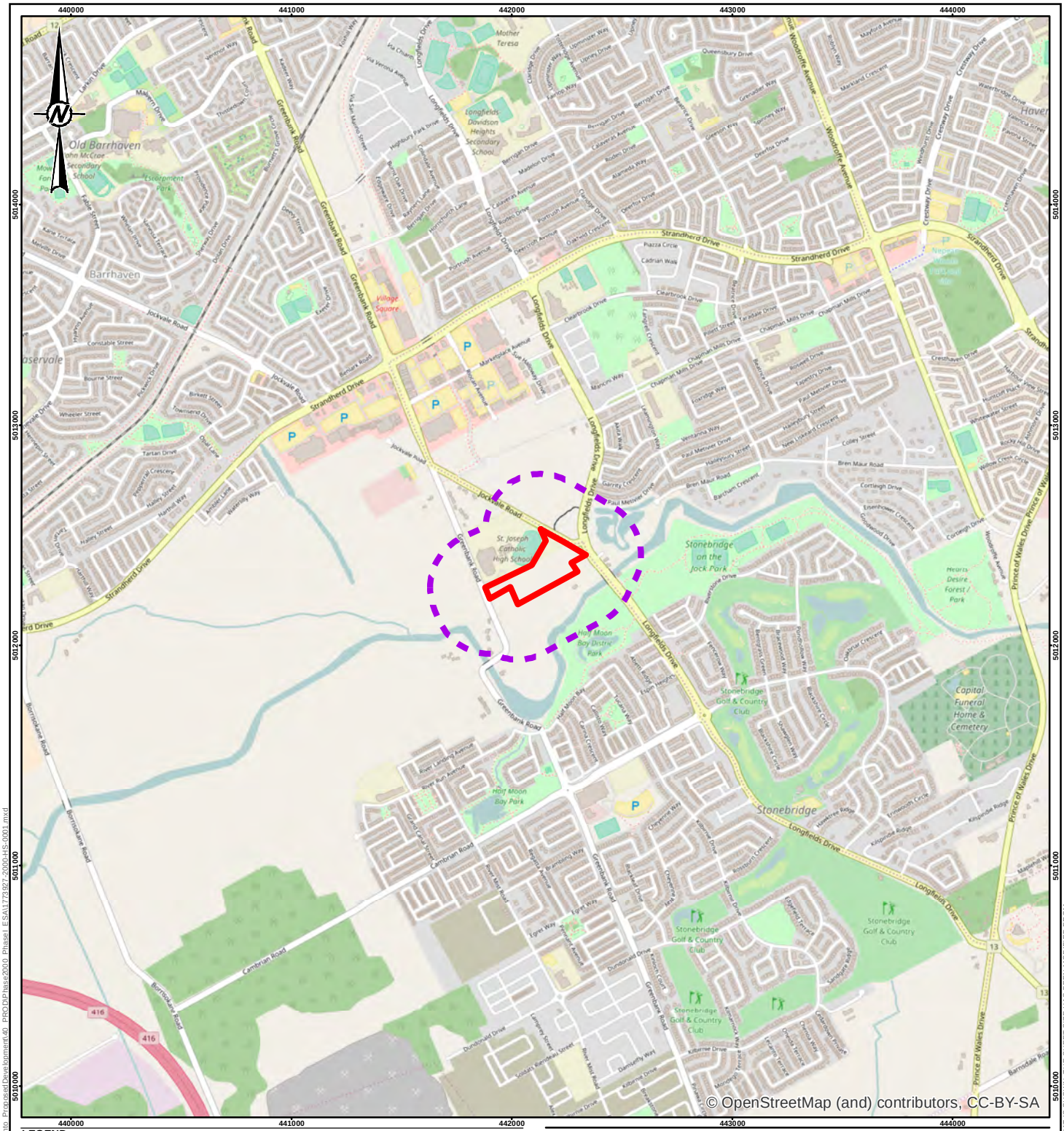
FIGURES



LEGEND

- PHASE ONE SITE
- PHASE ONE STUDY AREA

0 250 500 1,000

1:25,000 METRES

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
KEY PLAN

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

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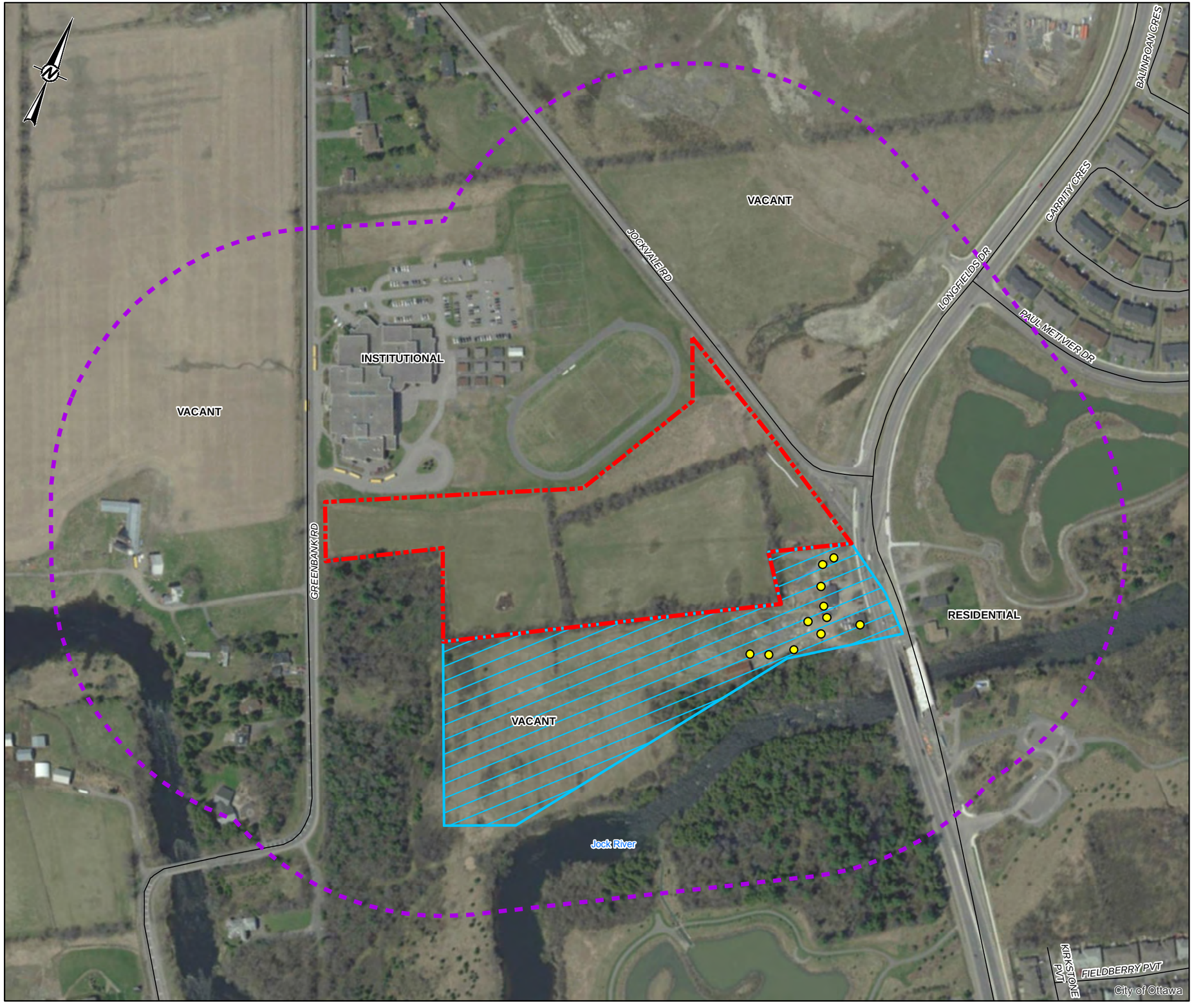


LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- LOCATION OF PCA 1
- LOCATION OF PCA 2

Potentially Contaminating Activity (PCA)		
Location	**Detail**	**PCA #**
1	Gasoline and Associated Products Storage in Fixed Tanks – Former presence of 11 fuel ASTs on the nursery property formerly located on the adjacent property south of the Site at 3392 Jockvale Road.	28
2	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications – Former presence of a commercial nursery and associated application of pesticides and fertilizers on the adjacent property south of the Site at 3392 Jockvale Road.	40

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140
1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
SITE PLAN

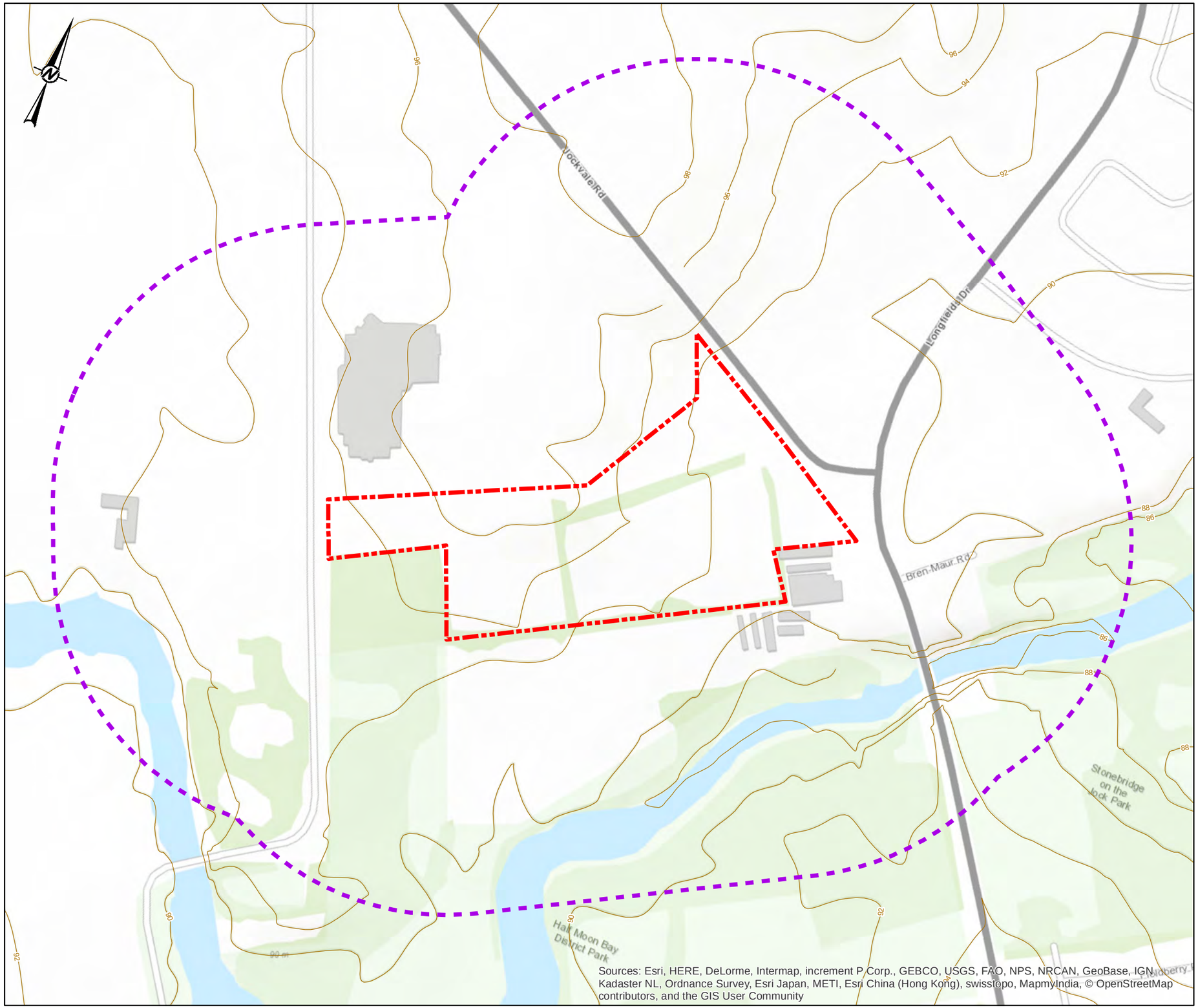
CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	**2**

Path: N:\Active\Spatial_IM\Minto_Communities\BarrhavenTownCentre\99_PRO\1773927_Minto_ProposedDevelopment40_PRO\DP\Phase2000_Phase1_ESA\1773927-2000-HS-0002.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM:
0 25mm



LEGEND

- TOPOGRAPHIC CONTOUR, metres
- PHASE ONE SITE
- PHASE ONE STUDY AREA

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140

1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
TOPOGRAPHIC MAP AND AREAS OF NATURAL SIGNIFICANCE

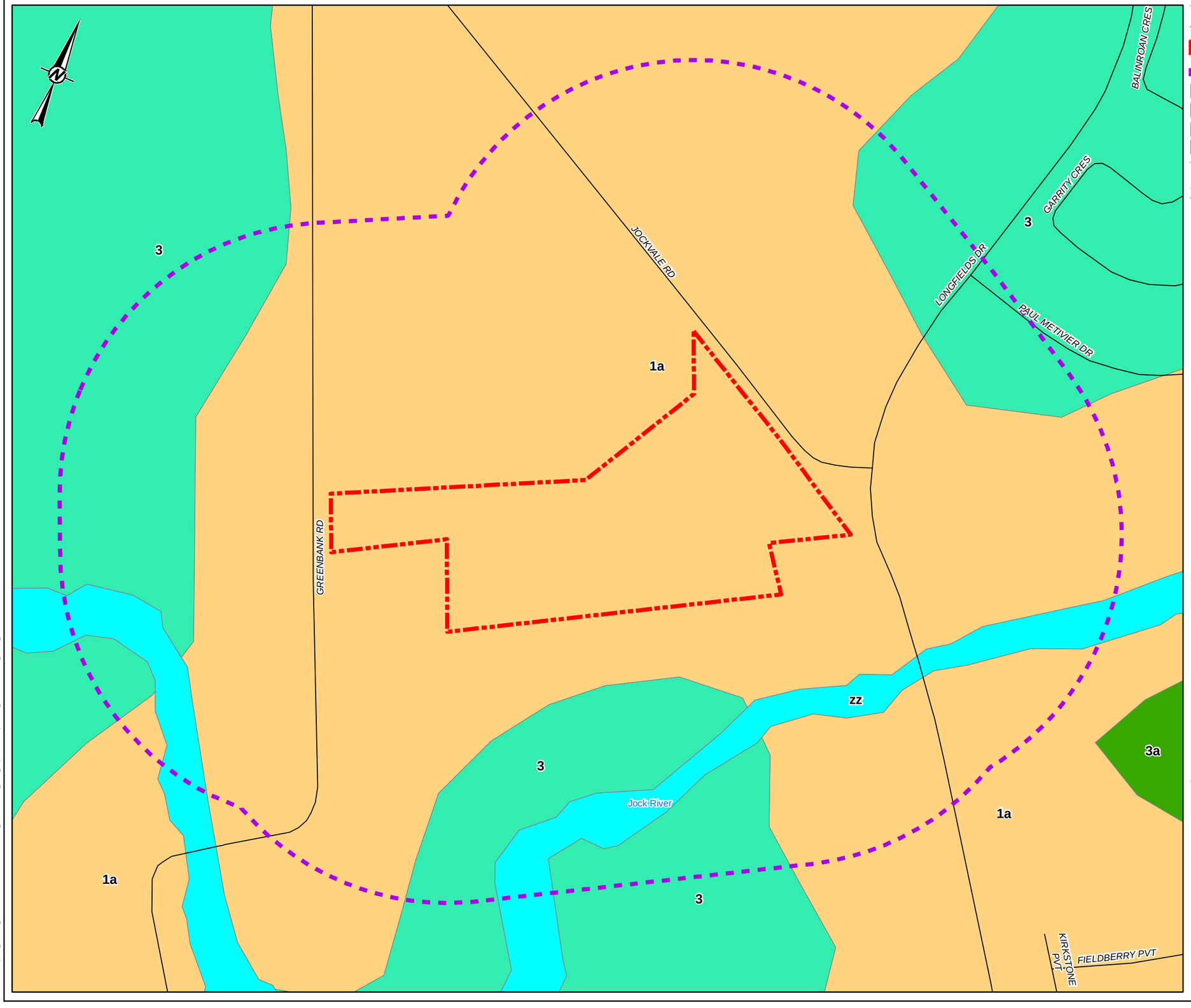
CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	3

Path: N:\Active\Spatial_IM\Minto_Communities\BarrhavenTownCentre\99_PRO\1773927_Minto_ProposedDevelopment\40_PRO\DP\Phase2000_Phase1_ESA\1773927-2000-HS-0003.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm



LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- 3. OFFSHORE MARINE DEPOSITS: CLAY, SILTY CLAY & SILT
- 3a. OFFSHORE MARINE DEPOSITS: CLAY, SILT UNDERLYING EROSIONAL TERRACES
- 1a. TILL, PLAIN WITH LOCAL RELIEF <5 m
- zz. WATERBODY

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83,
COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140
1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
SURFICIAL GEOLOGY

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

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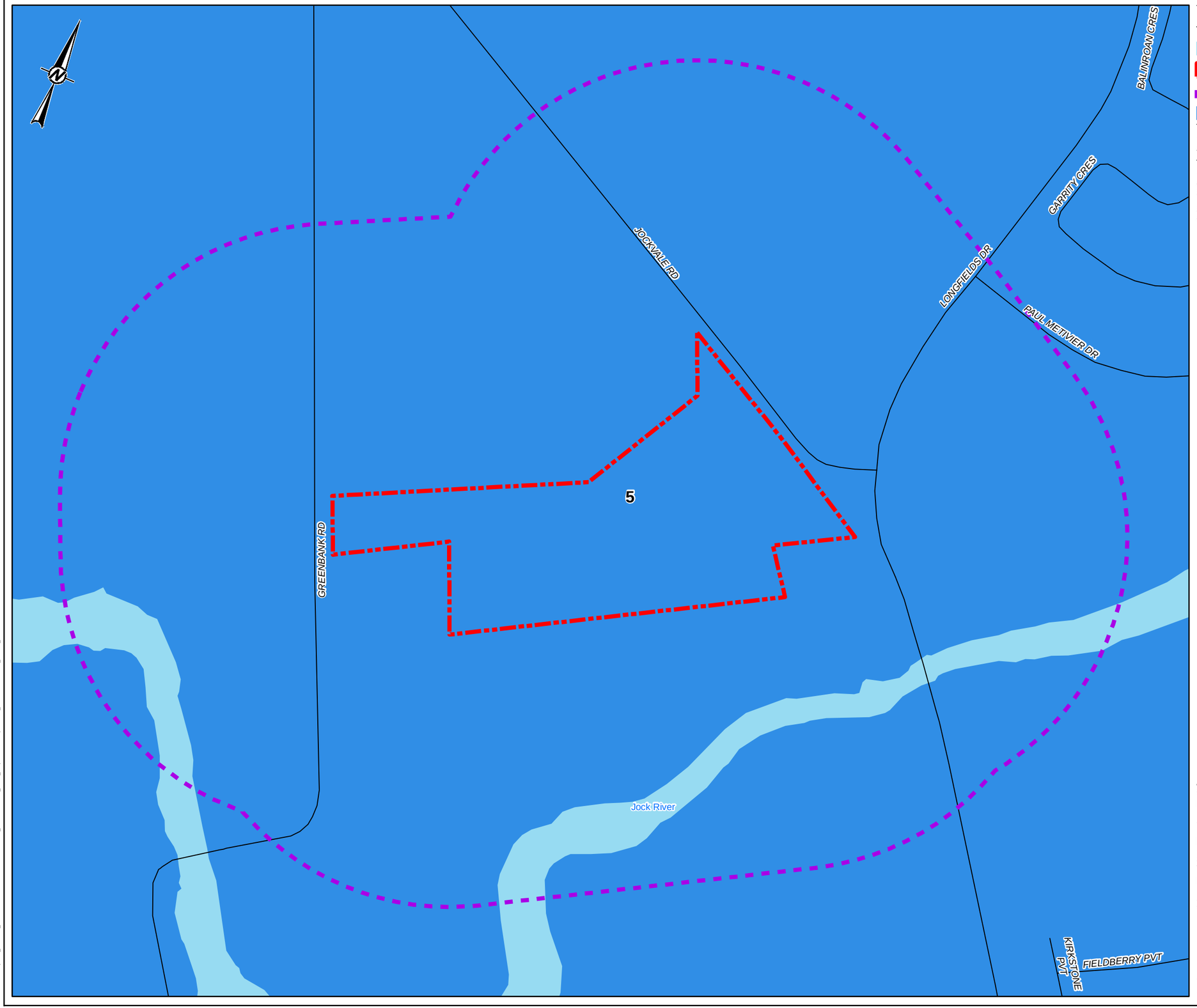

LEGEND

- ROADWAY
- WATERBODY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- 5: OXFORD FORMATION - DOLOSTONE, MINOR SHALE AND SANDSTONE

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. ARMSTRONG, D.K. AND DODGE, J.E.P. 2007. PALEOZOIC GEOLOGY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 219
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83,
COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140
1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
BEDROCK GEOLOGY

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

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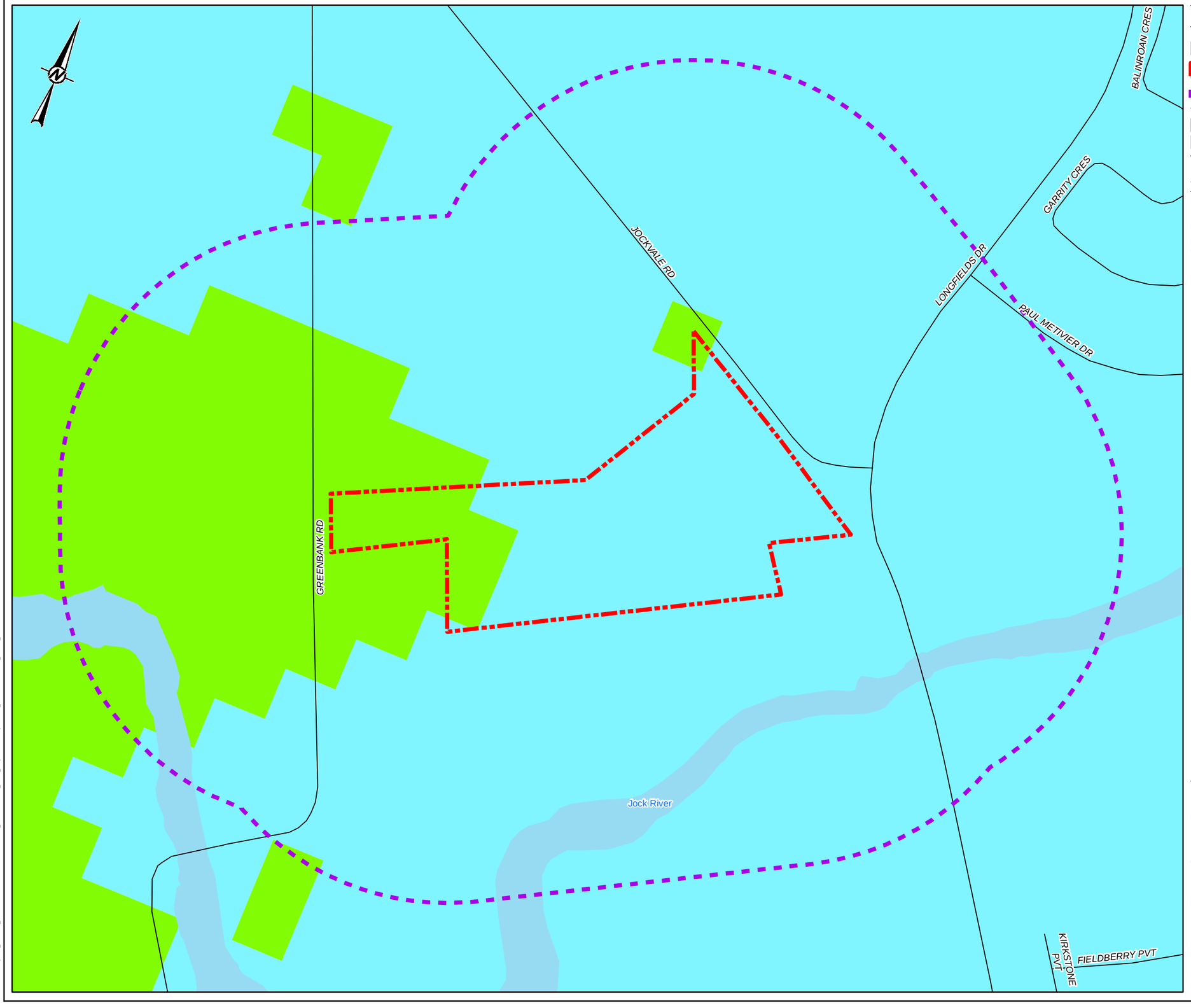

LEGEND

- ROADWAY
- WATERBODY
- PHASE ONE SITE
- PHASE ONE STUDY AREA

TREND IN DEPTH TO BEDROCK (METRES)

- 5 to 10
- 10 to 15

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. 2010 BÉLANGER, J. R., URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE D3256, 2001
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140

1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
DRIFT THICKNESS

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm 0

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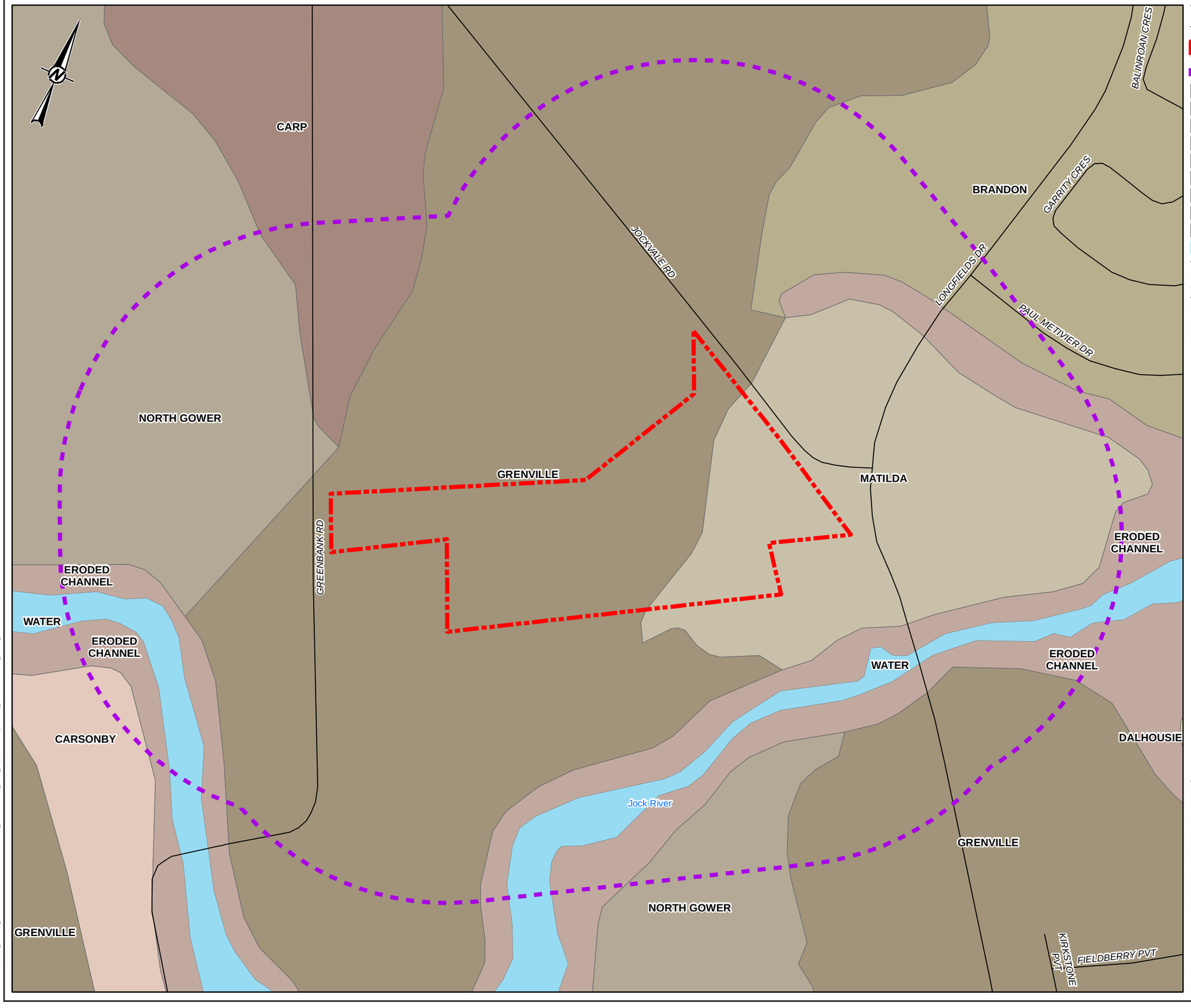


LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- BRANDON
- CARP
- CARSONBY
- DALHOUSIE
- ERODED CHANNEL
- GRENVILLE
- MATILDA
- NORTH GOWER
- NOT MAPPED
- WATER

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140

1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
SOIL SURVEY COMPLEX (ONTARIO SOILS)

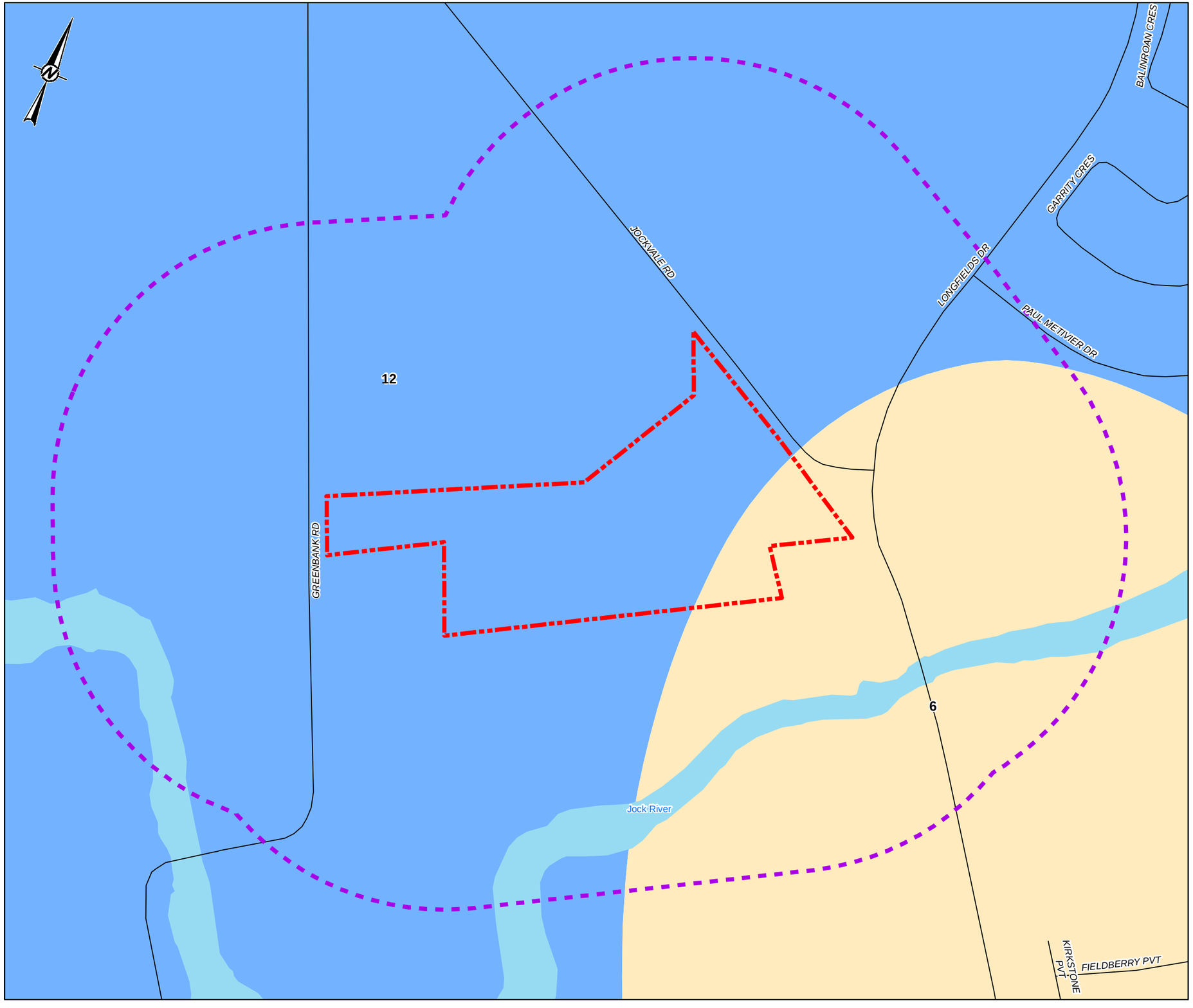
CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm 0

Path: N:\Active\Spatial_IM\Minto_Communities\Barrhaven\TownCentre\99_PRO\A1773927_Minto_Proposed\Dave\lopmet\40_PRODP\Phase2000_Phase1_ESA\1773927-2000-HS-0007.mxd



LEGEND

- ROADWAY
- WATERBODY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- 6: TILL PLAINS (DRUMLINIZED)
- 12: CLAY PLAINS

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. CHAPMAN, L.J. AND PUTNAM, D.F. 2007. PHYSIOGRAPHY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEIOUS RELEASE-DATA 228
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

0 35 70 140
1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
PHYSIOGRAPHY MAP

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	0	**8**

Path: N:\Active\Spatial_IM\Minto_Communities\Barrhaven\TownCentre\99_PRO\1773927_Minto_ProposedDevelopment\40_PRO\DP\task\2000_Phase1_ESA\1773927-2000-HS-0008.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

APPENDIX A

Regulatory Responses

Duffy, Melanie

From: Troke, Alyssa
Sent: March-08-17 8:47 PM
To: 'Desaulniers-Veilleux, Johanne (MOECC)'
Subject: Property Information Request for 3311 Greenbank Road, Ottawa, Ontario

Hi Johanne,

Could you please check for approvals and orders for the following property:

- 3311 Greenbank Road, Ottawa, ON

Please let me know if you have any questions.

Kindest Regards,

Alyssa Troke

Alyssa Troke (B.Eng., E.I.T.) | Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **D:** +1 (613) 592 4299 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 290 8736 | **E:** Alyssa_Troke@golder.com | **www.golder.com**

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Please consider the environment before printing this email.

Ministry of the Environment and Climate Change
Ottawa District Office
2430 Don Reid Drive, Suite 103
Ottawa Ontario
K1H 1E1
613-521-3450 or 1-800-860-2195
Fax: 613-521-5437

Ministère de l'Environnement et de l'Action en matière de changement climatique
Bureau du district d'Ottawa
2430, promenade Don Reid, Unité 103
Ottawa (Ontario)
K1H 1E1
613-521-3450 ou 1-800-860-2195
Téléc. : 613-521-5437

Ontario

OTT File No: **28**

INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL

Attention: **Alyssa Troke** **Golder Associates**	Your File: Date Received: March 8, 2017

Thank you for your inquiry requesting a search of records from the Ministry of the Environment and Climate Change (ministry). The ministry encourages you to use the available on-line resources to access publically-available information which may assist with your inquiry.

PROPERTY OWNER AND LOCATION

Location: Municipality: **Ottawa**

Address: **3311 Greenbank Road**
Lot Concession Township

INDEX OF NAMES FOR ORDERS

We have searched the *Ottawa* District Index Record of Active Orders under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to:
and the following information has been found:

☒ No Active Orders are outstanding

Please Note: *For information related to any ministry Orders issued to the property in question,* ***please request this information from the property owner.*** *If you would like further information regarding a specific Order issued, please contact the Ottawa District Office.*

Date of Search: March 29, 2017

RECORD OF SITE CONDITION

For information on **Records of Site Condition** filed on the Environmental Site Registry since October 1, 2004, please use the following links:
For records of site condition filed between October 1, 2004 and June 30, 2011 https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch, and for records of site condition filed since July 1, 2011 https://www.ontario.ca/environment-and-energy/records-site-condition

INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL

INDEX OF NAMES FOR APPROVALS ISSUED SINCE 1999

A search of the Index Record of names of all persons to whom approvals have been issued, maintained by the Director, Approvals Branch and the Regional Director, *Eastern Region*, and the District Manager, *Ottawa District*, under Section 19 EPA and Section 13 OWRA and the following information has been provided :

Type	Number	Issued To	Issue Date
Section 9 EPA *(Air)*			
Section 39 EPA *(Waste Management)*			
Section 52 OWRA *(Water)*			
Section 53 OWRA *(Municipal/Private/ Industrial Sewage)*			
Other			

The **ministry's Access Environment** is an on-line, map-based search tool designed to allow the public, quick and easy access to the ministry approvals and registration information from December 1999 onward. Access Environment currently displays Environmental Compliance Approvals (ECA), Renewable Energy Approvals (REA) and registrations on the Environmental Activity and Sector Registry (EASR). ECAs include all Certificates of Approval (CofAs) previously issued under the Environmental Protection Act (EPA) and approvals previously issued under s.53 of the Ontario Water Resources Act (OWRA). You can access this information from the ministry website or at the following link:
www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en

Copies of **ECAs issued before January 1, 2000** can be obtained by submitting a Request for a Copy of an Environmental Compliance Approval

Please Note:

1) The information provided above is based solely on the address(es) and name(s) of the present and past owners provided by you.
2) The Index Record of Names to whom approvals have been issued, maintained by the Regional Director and District Manager, has been searched back to 1999.
3) A search of our records does **NOT** indicate whether there are:
   - other uses for which an approval may have been required, **nor**
   - other uses on the property or in the vicinity that may affect the suitability of the property, for the use proposed to be made of it.
   If a comprehensive knowledge of the property and the nearby lands and their environmental condition is required, you must examine them and other relevant records yourself, with the aid of a qualified person, if needed.

☒ No Approvals have been issued.

Date of Search: March 29, 2017

INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL

Additional site information related to the **location of landfill sites** in the province can be found at the following link:

http://www.ontario.ca/environment-and-energy/small-landfill-sites

http://www.ontario.ca/environment-and-energy/map-large-landfill-sites

The **ministry's Hazardous Waste Information Network (HWIN)** can also be accessed to search for information on generators, carriers, and receivers of subject waste in the province at the following link: www.hwin.ca

The **ministry's Environmental Compliance Reports** provide information about contaminant discharges to water and emissions to air that exceed limits found in legislation, environmental approvals, orders and/or policies/guidelines and can be accessed at the following link: http://www.ontario.ca/environment-and-energy/environmental-compliance-reports

Information on **Environmental Penalties**, which are monetary penalties that can be imposed by the ministry for some industrial spills, can be assessed at the following link: https://www.ontario.ca/search/search-results?query=environmental%20penalties

Additional ministry information can be accessed through the **Government of Ontario's Open Data Catalogue**: http://www.ontario.ca/government/open-data-ontario

The ministry also encourages you to consider best practices and standards of care used within the legal community and through your associations as a guide to obtaining information related to specific property for any legal purpose.

We trust this information will help meet your requirements quickly and effectively.

Please advise your colleagues that responses to requests for searches always take some time. As a result the Ministry of the Environment and Climate Change may not be able to meet deadlines imposed by other parties on real estate and other transactions.

Thank you for your inquiry.

Signature: _____
Contact Name: Johanne Veilleux
Title: Administrative Assistant

Address: Ministry of the Environment and Climate Change
2430 Don Reid Drive, Unit 103
Ottawa, ON K1H 1E1

Phone: (613) 521-3450 Ext 221

Date: March 29, 2017

E&OE

Please Note: *If you would like to receive an email with all the environmental links above, please contact me at johanne.veilleux@ontario.ca and I will be pleased to send them to you.*

Office Use Only

Application Number: _____ Ward Number: _____ Application Received: (dd/mm/yyyy): _____

Client Service Centre Staff: _____ Fee Received: $ _____

Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Background Information

***Site Address or Location:** *3311 Greenbank Road, City of Ottawa*
PIN: 047321365

** Mandatory Field*

Applicant/Agent Information:

Name: *Alyssa Troke*

Mailing Address: *1931 Robertson Road, Ottawa, ON*

Telephone: *613-290-8736* Email Address: *atroke@golder.com*

Registered Property Owner Information: ☐ Same as above

Name: *City of Ottawa*

Mailing Address: *200-180 Kent Street, Ottawa, ON*

Telephone: *613-786-3279* Email Address: *ctremblay@minto.com*

Site Details

Legal Description and PIN:	*Part of Lot 13, Concession 2 (Rideau Front), Ottawa, Ontario* *PIN: 047321365*
What is the land currently used for?	*Vacant*

Lot frontage: _____ m Lot depth: _____ m Lot area: _____ m^2

OR Lot area: (irregular lot) 56,454 m^2

Does the site have Full Municipal Services: ○ Yes ◉ No

Required Fees

Please don't hesitate to visit the Historic Land Use Inventory website more information. Fees must be paid in full at the time of application submission.

Planning Fee	$100.00

Submittal Requirements

The following are required to be submitted with this application:

1. **Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.

2. **Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.

3. A site plan or key plan of the property, its location and particular features.

4. Any significant dates or time frames that you would like researched.

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Golder Associates Ltd. ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.

3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.

4. Copyright is reserved to the City.

5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.

6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: Alyssa Troke

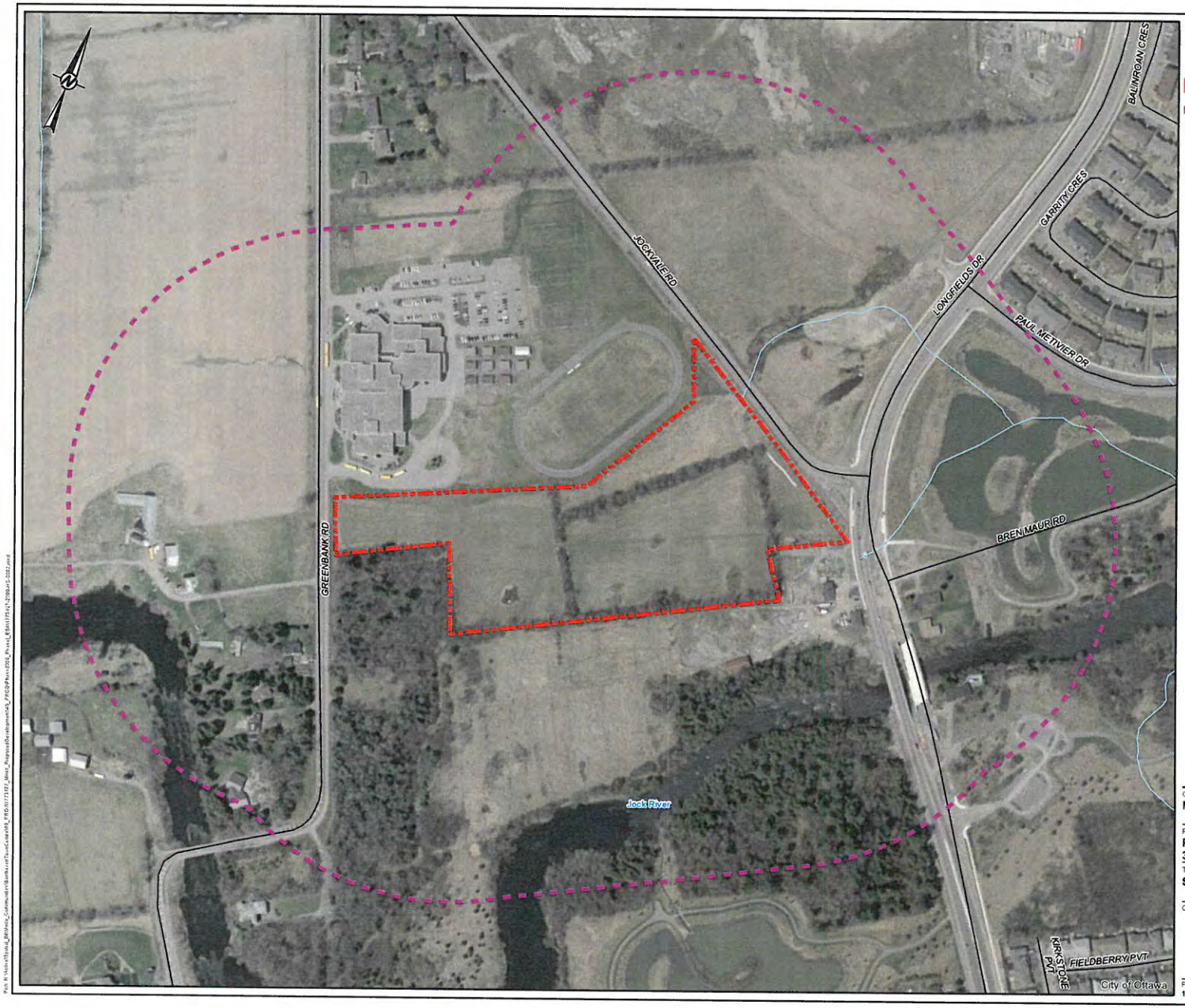
Dated (dd/mm/yyyy): 21/03/2017

Per: Alyssa Troke

(Please print name)

Title: Environmental Consultant

Company: Golder Associates Ltd.



LEGEND

- ROADWAY
- WATERCOURSE
- PHASE ONE SITE
- PHASE ONE STUDY AREA

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: UTM ZONE 18, VERTICAL DATUM: CGVD28

DRAFT

0 35 70 140
1:3,500 METRES

CLIENT
MINTO COMMUNITIES - CANADA

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE
SITE PLAN

CONSULTANT
Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	—
PREPARED	JEM
REVIEWED	—
APPROVED	—

PROJECT NO.	PHASE	REV.	FIGURE
1773927	2000	A	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

DISCLAIMER

For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the HISTORICAL LAND USE INVENTORY ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Golder Associates Ltd. ("the Requester") does so only under the following conditions and understanding:

1. This is a free service offered by the City.

2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided "as is".

3. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information to be provided by the City to the Requester is provided on the assumption that no person shall rely on it without undertaking independent verification of it for any purpose whatsoever and all liability to any such person is denied.

4. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.

5. Copyright is reserved to the City.

6. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.

7. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

8. All information collected under this request and all records provided in response to this request are subject to the provisions of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990,c. M56, as amended.

Signed: Alyssa Troke Dated: March 21, 2017

Per: Alyssa Troke
(Please print name)
Title: Environmental Consultant
Company: Golder Associates Ltd.

CONFIDENTIAL

File No.: 1773927
Deadline for Response: ASAP

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

a) Name of Requester: Alyssa Troke
b) Address of Requester: 1931 Robertson Road, Ottawa, ON, K2H 5B7
c) Telephone Number: 613-592-9600 x 4299
d) Site Address: _____ Concession: _____
Street: 3311 Greenbank Road City/Town: Ottawa
Postal Code: _____
e) Legal Plan Attached: Yes ( ) No (X)
f) Site Owner: City of Ottawa
g) Adjacent Property Owners: _____
h) _____
i) Date of Ownership: _____
Previous Owner(s): _____
_____
_____
_____
j) Type of Site: (X) vacant, ( ) residential, ( ) commercial,
( ) other (specify) _____
k) Requestors relationship to Site: Consultant
l) Date of Previous Request: -
m) Date of Previous ESA: -
n) Information Requested: As per cover sheet

2. CONFIDENTIALITY

a) Consent Required: (X) Owner ( ) Tenant ( ) Purchaser ( ) Legal**
b) Consent Obtained: (X) Owner ( ) Tenant ( ) Purchaser ( ) Legal**

*(If formal MFIPPA request, please forward to Corporate Access and Privacy Coordinator, Clerk's Department)

**(Consent letters must contain the information required, give authorization to requestor, and be dated and signed)

This form has been prepared by Golder Associates, for client use, with regard to submissions to the City of Ottawa ("City") for environmental related information on the property noted below. It will be used by Golder Associates, who have been retained to carry out a Phase I Environmental Site Assessment.

This form is to be completed by the property owner/agent and forwarded to Golder Associates Ltd. who will then append it with a request for information to the City. The intent of the form is to notify the City that Golder Associates Ltd. is authorised to access the requested environmental information.

Property Location Information:

Civic Address 3311 Greenbank Road, Ottawa, ON

Legal Description Part of Lot 13, Concession 2 (Rideau Front), Ottawa, Ontario
Pin 047321365

Property Contact Information:

Owner City of Ottawa

Phone Number 613-786-3279

Fax Number

Owner Representative Minto Communities inc. (Catherine Tremblay)

Owner Representative Signature Catherine Tremblay

Date March 20 2017

File Number: D06-03-17-0036

April 6, 2017

Golder Associates Ltd.
1931 Robertson Road
Ottawa, ON K2L 4G1
Attn: Alyssa Troke

Sent via email [atroke@golder.com]

Dear Ms. Troke,

Re: Information Request
3311 Greenbank Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- A Sanitary Sewer Agreement for the South Nepean Collector Sewer is on file for this address.

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Property.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

- There are two (2) activities associated with properties located within 50m of the Subject Property: Activity Numbers 5681 and 13123.

City of Ottawa
Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 24856
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 24856
Téléc: (613) 560-6006
www.ottawa.ca

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at **http://www.ebr.gov.on.ca/ERS-WEB-External/** contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Ben Crooks at 613-580-2424 ext. 14743 or at HLUI@ottawa.ca

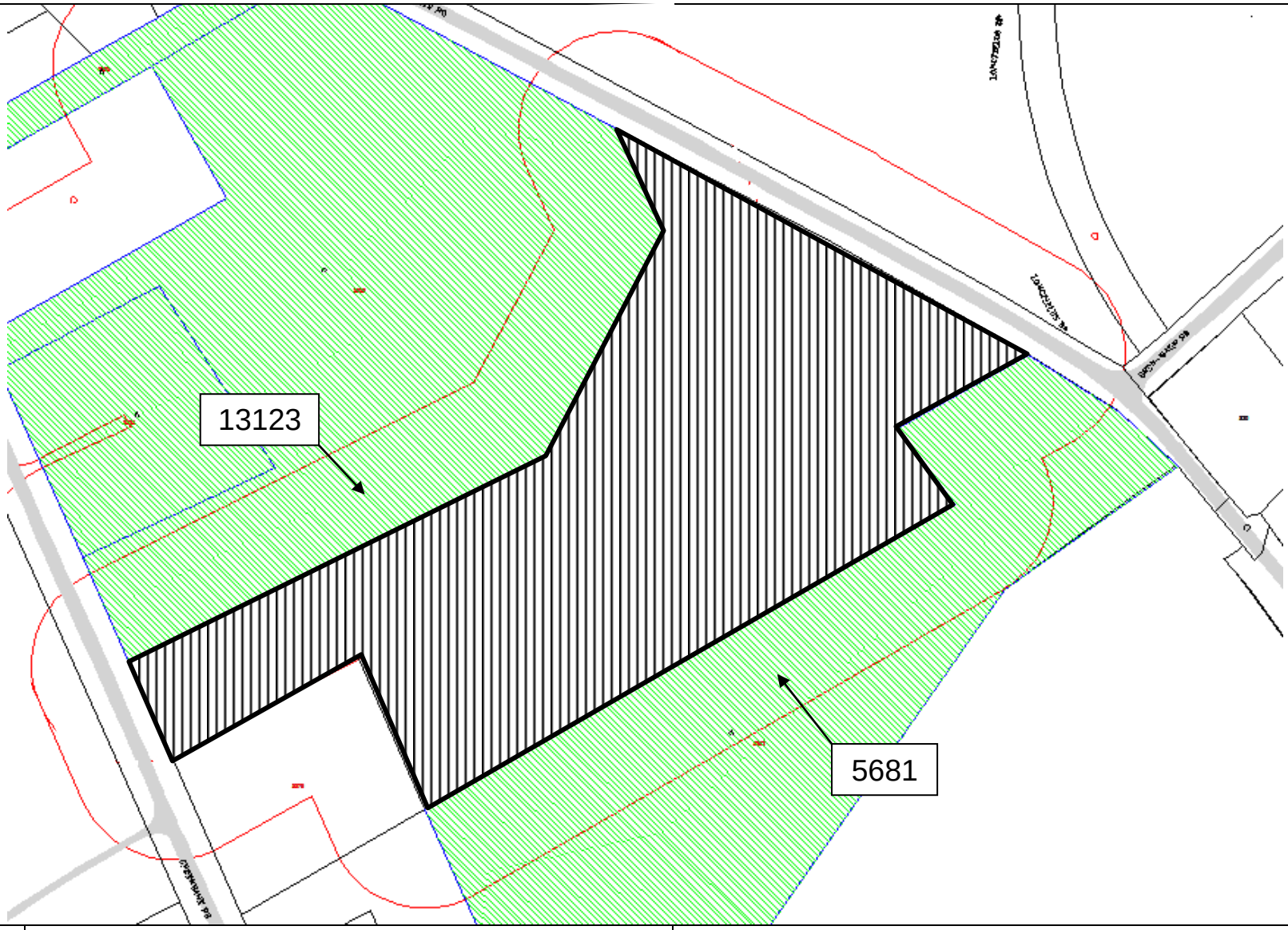
Sincerely,

Ben Crooks
(For) Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / BC

Attach: 3

cc: File no. D06-03-17-0036



Scale 1: n/a

3311 Greenbank Road
Ottawa, ON
File # D06-03-17-0036
Ben Crooks

Ottawa

Overview

ID# = Activity Identification Number

= Subject Site

CITY OF OTTAWA

HLUI ID: __67997W

AREA (Square Metres): 47661.158

Report: RPTC_OT_DEV0122

Run On: 27 Mar 2017 at: 14:40:50

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	047320034	Y	N

Activity ID: 5681 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 047320034

Name: GAMBLE'S GREENHOUSES

Address: 3392 JOCKVALE ROAD,

Facility Type: Hardware, Paint, Glass and Wallpaper Stores (paint storage)

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
444210	0
444220	0

Company Name	Year of Operation
GAMBLE'S GREENHOUSES	c. 2005

CITY OF OTTAWA

HLUI ID: __679AZC

AREA (Square Metres): 57612.387

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	047320032	N	N

Activity ID: 13123 **Multiple PINS:** Y

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 047320032

Name: ST JOSEPH HIGH SCHOOL

Address: 3333 GREENBANK ROAD, NEPEAN

Facility Type: Elementary and Secondary Education

Comments 1:

Comments 2: St. Joseph High School

Generator Number: ON8832880

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
611110	0

Company Name	Year of Operation
ST JOSEPH HIGH SCHOOL	c. 2003
ST JOSEPH HIGH SCHOOL	c. 2005

Ministry of Natural Resources

Ontario

Natural. Valued. Protected.

Email to MNR

Natural Areas and Features Information Request Form

Contact Information

Clear Contact

Name: Alyssa Troke

Address: 1931 Robertson Road, Ottawa, ON

Phone Number: (613) 592-9600 ☐ Owner ☑ Consultant

E-mail Address: atroke@golder.com

*All red fields are manditory

This includes X & Y Coordinates.

Please see page 2 for assistance.

Site Information

Clear Site

Project Name: Phase I ESA, 3311 Greenbank Rd, Ottawa

Township: Ottawa Lot: _____ Concession: _____

X: -75.7374 Y: 45.2620 Address: 3311 Greenbank Rd., Ottawa, ON

**If more than 1 site, please provide all individual coordinates in an attached spreadsheet

Type of Proposal

Clear Details

- ☐ Severance / Zoning
- ☐ Drains / Roads / Culverts
- ☐ Hydroline clearing
- ☐ Small Scale Projects (less than 5 hectares)
- ☐ RE Projects
- ☐ Large Scale Projects (5 hectares or greater)
- ☐ Aggregate Project
- ☑ Other: _____

Attachments

***Please attach a Site Map showing the area of interest

☐ Picture ☑ Map(s) ☐ Engineered Drawings ☐ Other: _____

Request

I would like to request the following information for the property identified above:

-Information on species at risk on the site and within 250 m of the site boundaries and advice for avoiding impacts to any SAR
-Information on and mapping of significant natural areas (NHIC indicates none present) within

To better respond to your request please briefly outline the purpose for which this information is required (e.g. proposed development, lot severance, etc. or attach details):

The request is needed to comply with Ontario Regulation 153/04 (as amended) for a Phase I Environmental Site Assessment carried out for 3311 Greenbank Road in Ottawa, Ontario.

Date of works proposed: ____ / _____ / _____

Personal information contained in this form is collected in order to fulfill your request, respond to your inquiries and for other administration purposes. With regard to the personal information it collects, the ministry is bound by privacy protection rules under the Freedom of Information and Protection of Privacy Act and takes all necessary steps to safeguard personal information collected.

Please Note: This request MUST be made by the property owner or by someone acting on their behalf.
Depending on the nature of the request, it may take 6-8 weeks to respond to your inquiry.
If the request does not include the manditory information, it may delay response time.

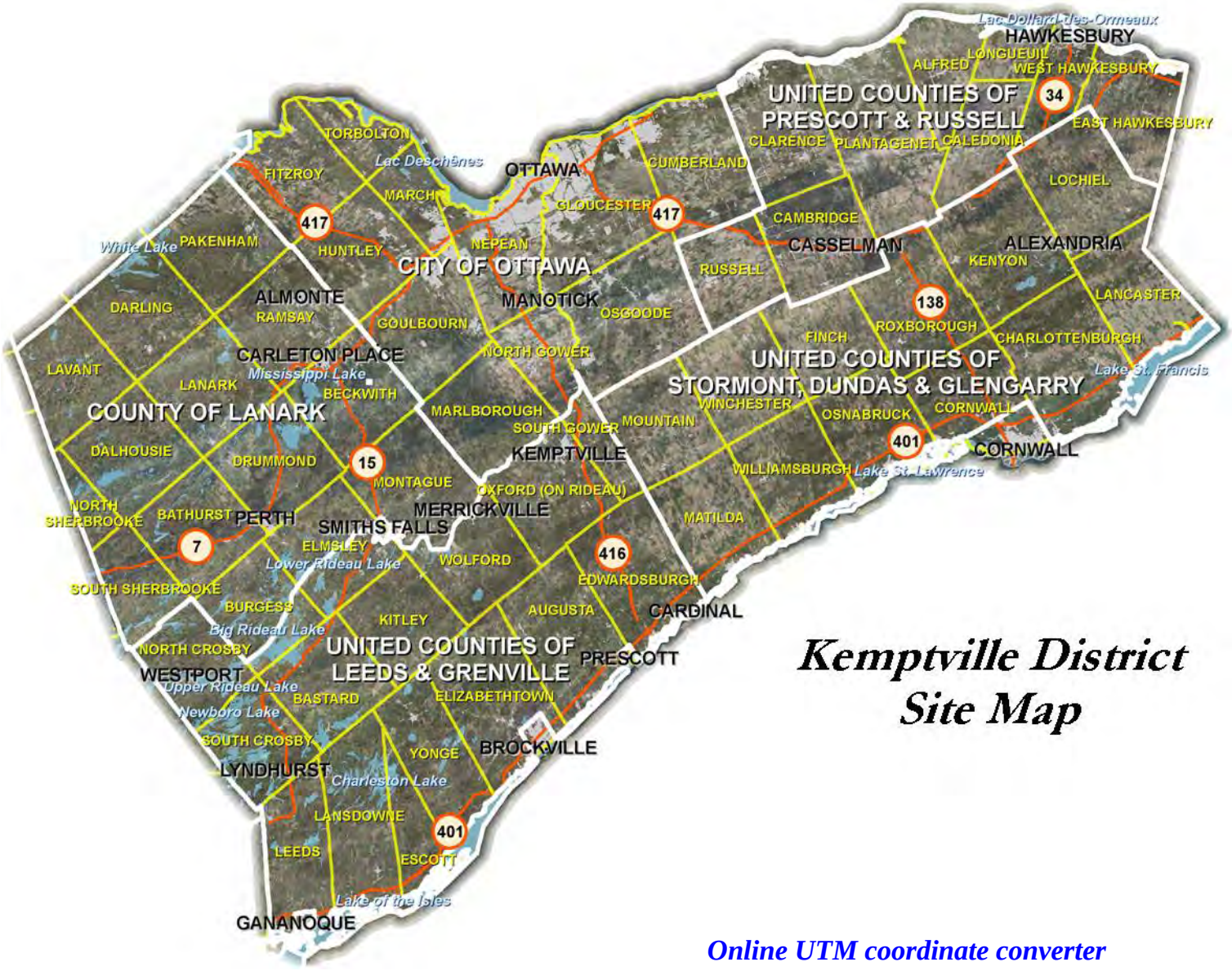
☑ *I have read the above and agree to all Terms and Conditions*

Please forward the completed form to:

Kemptville.Inforequest@Ontario.ca OR **Fax: 613-258-3920**

Attention: Information Requests
10 Campus Drive, Postal Bag 2002
Kemptville, ON K0G 1J0

MNR File Number: _____



Kemptville District Site Map

Online UTM coordinate converter

How to get X, Y coordinates from Google Maps (2 options):

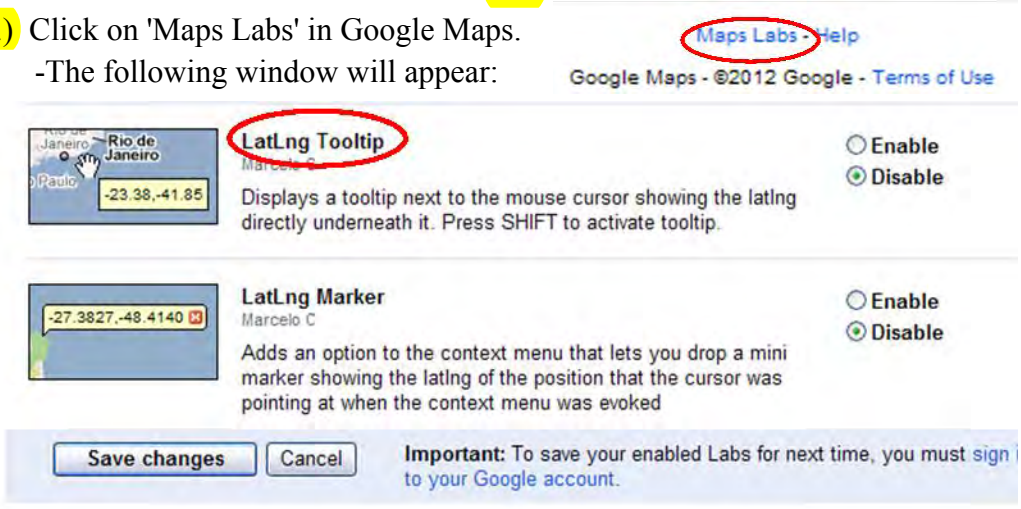
1.) Right-click on the map, at the point of interest, and select 'What's here?'.

-The Latitude & Longitude of the mouse click, in decimal degrees, will automatically appear in the Search box.

OR

2.) Click on 'Maps Labs' in Google Maps.

-The following window will appear:



-Enable the LatLng Tooltip and then Save Changes.

-Now every time the **SHIFT** button is pressed in Google Maps, a Tool tip will appear with the Latitude and Longitude of the mouse location in decimal degrees.

Duffy, Melanie

From: Public Information Services <publicinformationservices@tssa.org>
Sent: March-14-17 10:44 AM
To: Troke, Alyssa
Subject: RE: TSSA Search - 3311 Greenbank Road, Ottawa, Ontario

Follow Up Flag: Flag for follow up
Flag Status: Completed

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationservices@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.

Suman Guram | Coordinator
Records
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6203 | Fax: +1-416-231-6183 | E-Mail: sguram@tssa.org
www.tssa.org

Employeur remarquable du Canada 2016 PARTENARIAT EN ÉDUCATION
Canada's Outstanding Employer 2016 THE LEARNING PARTNERSHIP

Thank you for contacting TSSA. Due to the increase in the number of requests for information, our response time is approximately 5 to 10 business days. As a reminder, written requests for a copy of a record are charged a fee for processing. Please refer to the Information Request Fee Schedule found on our website at www.tssa.org for more information about the charges. Confirmation of the existence of a record (a single piece of information or single document) can be provided to you verbally, by telephone, at no charge, by calling TSSA toll-free at 1-877-682-TSSA (8772).
Thank you for your interest in TSSA.

From: Troke, Alyssa [mailto:Alyssa_Troke@golder.com]
Sent: Wednesday, March 08, 2017 8:46 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Search - 3311 Greenbank Road, Ottawa, Ontario

Hello,

Could you please perform a TSSA database search for any underground storage tanks, registered fuel tanks, outstanding instructions, incident reports, fuel oil spills or contaminations records for the following properties:

- 3311 Greenbank Road, Ottawa, ON

- 3333 Greenbank Road, Ottawa, ON
- 3370 Greenbank Road, Ottawa, ON
- 3380 Greenbank Road, Ottawa, ON
- 3379 Greenbank Road, Ottawa, ON
- 3401 Greenbank Road, Ottawa, ON
- 320 Bren-Maur Road, Ottawa, ON
- 261 Bren-Maur Road, Ottawa, ON
- 3392 Jockvale Road, Ottawa, ON

Please let me know if you have any questions.

Kindest Regards,

Alyssa Troke

Alyssa Troke (B.Eng., E.I.T.) | Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **D:** +1 (613) 592 4362 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 290 8736 | **E:** Alyssa_Troke@golder.com | **www.golder.com**

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APPENDIX B

EcoLog ERIS Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*1773927 - 3311 Greenbank Phase I ESA* *3311 Greenbank Rd* *Ottawa ON K2J4J1*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20170302251*
Requested by:	*Golder Associates Ltd.*
Date Completed:	*March 9, 2017*

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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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property:	*1773927 - 3311 Greenbank Phase I ESA* *3311 Greenbank Rd Ottawa ON K2J4J1*
Project No:	

Order Information:

Order No:	*20170302251*
Date Requested:	*March 2, 2017*
Requested by:	*Golder Associates Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Additional Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	***Abandoned Aggregate Inventory***	*Y*	*0*	*0*	*0*
AGR	***Aggregate Inventory***	*Y*	*0*	*0*	*0*
AMIS	***Abandoned Mine Information System***	*Y*	*0*	*0*	*0*
ANDR	***Anderson's Waste Disposal Sites***	*Y*	*0*	*0*	*0*
AUWR	***Automobile Wrecking & Supplies***	*Y*	*0*	*0*	*0*
BORE	***Borehole***	*Y*	*0*	*10*	*10*
CA	***Certificates of Approval***	*Y*	*0*	*0*	*0*
CFOT	***Commercial Fuel Oil Tanks***	*Y*	*0*	*0*	*0*
CHEM	***Chemical Register***	*Y*	*0*	*0*	*0*
CNG	***Compressed Natural Gas Stations***	*Y*	*0*	*0*	*0*
COAL	***Inventory of Coal Gasification Plants and Coal Tar Sites***	*Y*	*0*	*0*	*0*
CONV	***Compliance and Convictions***	*Y*	*0*	*0*	*0*
CPU	***Certificates of Property Use***	*Y*	*0*	*0*	*0*
DRL	***Drill Hole Database***	*Y*	*0*	*0*	*0*
EASR	***Environmental Activity and Sector Registry***	*Y*	*0*	*0*	*0*
EBR	***Environmental Registry***	*Y*	*0*	*0*	*0*
ECA	***Environmental Compliance Approval***	*Y*	*0*	*0*	*0*
EEM	***Environmental Effects Monitoring***	*Y*	*0*	*0*	*0*
EHS	***ERIS Historical Searches***	*Y*	*0*	*2*	*2*
EIIS	***Environmental Issues Inventory System***	*Y*	*0*	*0*	*0*
EMHE	***Emergency Management Historical Event***	*Y*	*0*	*0*	*0*
EXP	***List of TSSA Expired Facilities***	*Y*	*0*	*0*	*0*
FCON	***Federal Convictions***	*Y*	*0*	*0*	*0*
FCS	***Contaminated Sites on Federal Land***	*Y*	*0*	*0*	*0*
FOFT	***Fisheries & Oceans Fuel Tanks***	*Y*	*0*	*0*	*0*
FST	***Fuel Storage Tank***	*Y*	*0*	*0*	*0*
FSTH	***Fuel Storage Tank - Historic***	*Y*	*0*	*0*	*0*
GEN	***Ontario Regulation 347 Waste Generators Summary***	*Y*	*0*	*10*	*10*
GHG	***Greenhouse Gas Emissions from Large Facilities***	*Y*	*0*	*0*	*0*
HINC	***TSSA Historic Incidents***	*Y*	*0*	*0*	*0*
IAFT	***Indian & Northern Affairs Fuel Tanks***	*Y*	*0*	*0*	*0*
INC	***TSSA Incidents***	*Y*	*0*	*0*	*0*
LIMO	***Landfill Inventory Management Ontario***	*Y*	*0*	*0*	*0*
MINE	***Canadian Mine Locations***	*Y*	*0*	*0*	*0*
MNR	***Mineral Occurrences***	*Y*	*0*	*0*	*0*
NATE	***National Analysis of Trends in Emergencies System (NATES)***	*Y*	*0*	*0*	*0*

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	15	15
	Total:		0	38	38

Executive Summary: Site Report Summary - Project Property

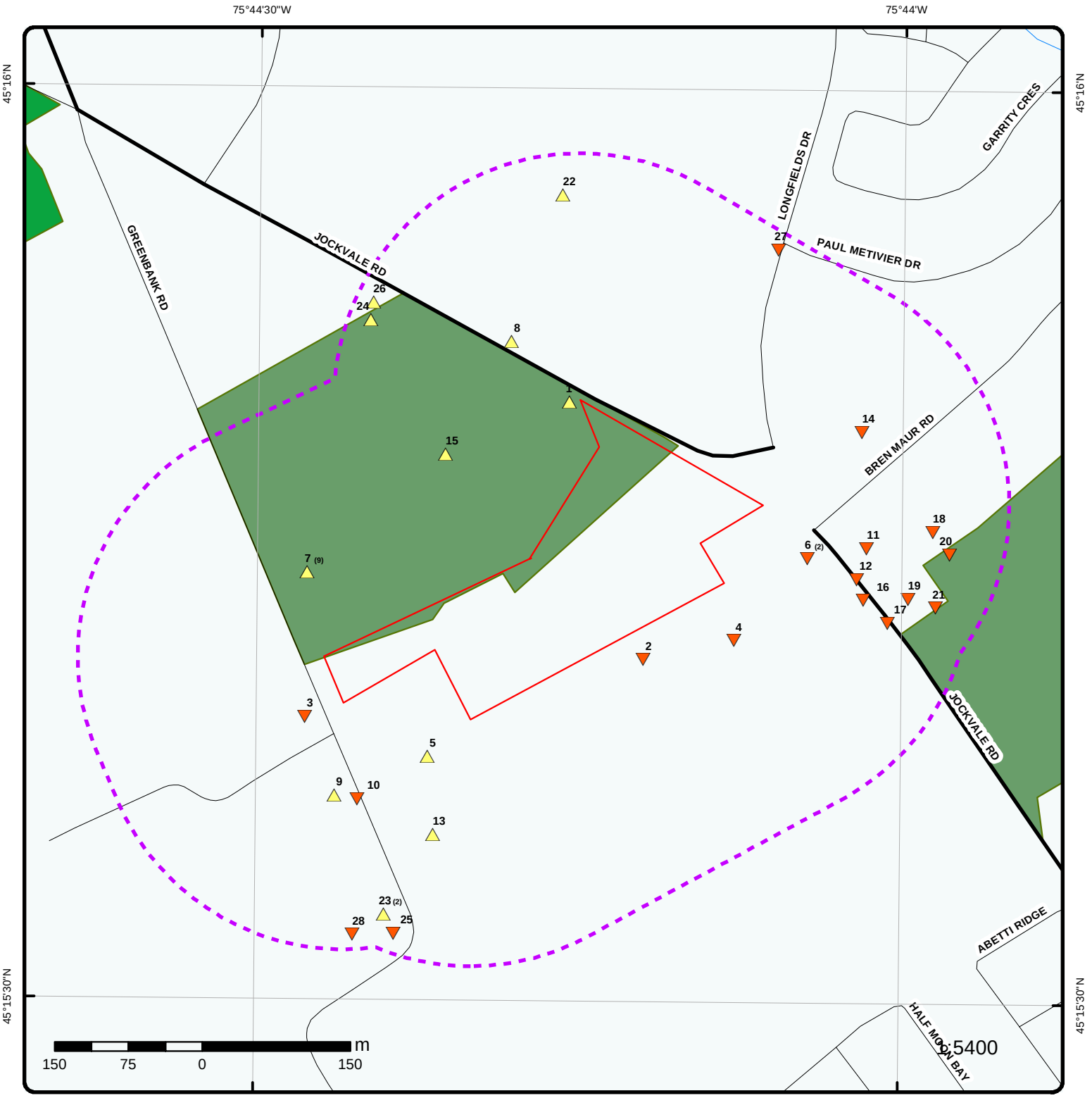
DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
BORE	6		ON	E/70.1	-2.74	12
BORE	9		ON	SW/94.2	0.89	12
BORE	12		ON	E/120.8	-4.98	13
BORE	14		ON	ENE/124.9	-8.79	13
BORE	16		ON	E/139.9	-4.48	14
BORE	17		ON	E/170.6	-5.15	14
BORE	18		ON	E/174.3	-5.81	15
BORE	20		ON	E/196.2	-6.69	15
BORE	23		ON	SSW/215.6	0.10	16
BORE	24		ON	NW/227.6	4.29	16
EHS	2		3392 Jockvale Road Ottawa ON	SE/29.3	-2.13	17
EHS	5		Greenbank Road Ottawa ON	SW/57.5	1.19	17
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	17
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	18
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	18
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON	W/84.7	0.12	19
GEN	7	Ottawa-Carleton Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	20
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	20
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	21
GEN	7	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	22
GEN	7	Ottawa-Carleton Catholic School Board	St. Joseph High School 3333 Greenbank Road Nepean ON K2J 4J1	W/84.7	0.12	23
GEN	15	Ottawa Catholic District School Board	3333 Greenbank Road Nepean ON K2J 4T1	NW/128.0	2.81	23
SPL	19	TANK TRUCK	AT RESIDENCE AT 3415 JOCKVALE ROAD TANK TRUCK (CARGO) NEPEAN CITY ON K2J 4K2	E/175.5	-3.47	24

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
WWIS	1		lot 14 con 2 ON	N/11.1	0.42	25
WWIS	3		lot 13 con 3 ON	WSW/42.0	-1.57	27
WWIS	4		lot 12 con 2 OTTAWA ON	ESE/55.9	-3.47	29
WWIS	6		lot 13 con 1 ON	E/70.1	-2.73	43
WWIS	8		lot 13 con 2 ON	NNW/91.4	2.97	45
WWIS	10		NEPEAN ON	SW/97.7	-0.78	47
WWIS	11		lot 12 con 2 ON	E/113.8	-2.87	49
WWIS	13		lot 12 con 2 ON	SSW/122.8	1.02	51
WWIS	21		lot 12 con 2 ON	E/203.5	-2.83	54
WWIS	22		lot 14 con 2 Ottawa ON	N/208.6	1.08	56
WWIS	23		lot 12 con 3 ON	SSW/215.6	0.09	58
WWIS	25		lot 12 con 3 ON	SSW/230.4	-0.30	60
WWIS	26		lot 14 con 2 ON	NW/232.0	4.42	62
WWIS	27		lot 13 con 2 Ottawa ON	NNE/232.4	-2.27	64
WWIS	28		lot 12 con 3 NEPEAN ON	SSW/234.9	-0.35	65



Map : 0.25 Kilometer Radius

Order No: 20170302251

Address: 3311 Greenbank Rd, Ottawa, ON, K2J4J1

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

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

Source: © 2015 DMTI Spatial Inc.

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75°45'W

Aerial

Order No: 20170302251

Address: 3311 Greenbank Rd, Ottawa, ON, K2J4J1

Source: ESRI World Imagery

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Topographic Map

Address: 3311 Greenbank Rd, Ottawa, ON, K2J4J1

Source: ESRI World Topographic Map

Order No: 20170302251

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

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Detail Report

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
BORE	6	1 of 2	E/70.1	91.1	ON

Borehole ID:	612023	**Type:**	Borehole
Use:		**Status::**	
Drill Method::		**UTM Zone::**	18
Easting::	442371	**Northing::**	5012362
Location Accuracy::		**Orig. Ground Elev m::**	89
Elev. Reliability Note::		**DEM Ground Elev m::**	92.5
Total Depth m::	28.7	**Primary Name::**	
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	APR-1968	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218389835	**Top Depth(m):**	0.0
Bottom Depth(m):	7.9	**Stratum Desc:**	CLAY,BOULDERS.
Stratum ID:	218389836	**Top Depth(m):**	7.9
Bottom Depth(m):	11.9	**Stratum Desc:**	GRAVEL,SAND.
Stratum ID:	218389837	**Top Depth(m):**	11.9
Bottom Depth(m):	28.7	**Stratum Desc:**	LIMESTONE. 00092LIMESTONE. NE. 00080CK. SEISMIC VELOCITY = 14500. BEDROCK. SE

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
BORE	9	1 of 1	SW/94.2	94.8	ON

Borehole ID:	612013	**Type:**	Borehole
Use:		**Status::**	
Drill Method::		**UTM Zone::**	18
Easting::	441891	**Northing::**	5012122
Location Accuracy::		**Orig. Ground Elev m::**	93
Elev. Reliability Note::		**DEM Ground Elev m::**	94.1
Total Depth m::	-999	**Primary Name::**	
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::		**Static Water Level::**	.3
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218389813	**Top Depth(m):**	0.0
Bottom Depth(m):	5.8	**Stratum Desc:**	TILL.
Stratum ID:	218389814	**Top Depth(m):**	5.8
Bottom Depth(m):		**Stratum Desc:**	BEDROCK,LIMESTONE. WATER STABLE AT 304.0 FEET.TE,SAND. BLACK. 00080CK. SEISMIC VELOCITY =

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
BORE	12	1 of 1	E/120.8	88.9	ON

Borehole ID:	847967	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	Decommissioned
Drill Method::	Diamond Drill	**UTM Zone::**	18
Easting::	442421	**Northing::**	5012341
Location Accuracy::		**Orig. Ground Elev m::**	28.5
Elev. Reliability Note::		**DEM Ground Elev m::**	90.6
Total Depth m::	11.1	**Primary Name::**	
Township::	NEPEAN	**Concession::**	CON 2
Lot::	LOT 12	**Municipality:**	
Completion Date::	10-MAR-1961	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	6559424	**Top Depth(m):**	0.0
Bottom Depth(m):	0.6	**Stratum Desc:**	GRAVEL FILL
Stratum ID:	6559425	**Top Depth(m):**	0.6
Bottom Depth(m):	4.0	**Stratum Desc:**	DENSE, WEATHERED. BROWN, STONY GLACIAL TILL WITH BOULDERS
Stratum ID:	6559426	**Top Depth(m):**	4.0
Bottom Depth(m):	11.1	**Stratum Desc:**	DENSE TO VERY DENSE, SANDY TO STONY, GREY GLACIAL TILL WITH BOULDERS. BEDROCK - GOOD QUALITY LIMESTONE.

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
BORE	14	1 of 1	ENE/124.9	85.1	ON

Borehole ID:	806671	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	442426.09	**Northing::**	5012490.1
Location Accuracy::		**Orig. Ground Elev m::**	90.8
Elev. Reliability Note::		**DEM Ground Elev m::**	91
Total Depth m::	10.4	**Primary Name::**	BH 04-24
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	16-JUN-2004	**Static Water Level::**	2.6
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218589771	**Top Depth(m):**	0.0
Bottom Depth(m):	0.1	**Stratum Desc:**	Dark Brown Topsoil Silt - Sand With: Org M
Stratum ID:	218589772	**Top Depth(m):**	0.1
Bottom Depth(m):	0.2	**Stratum Desc:**	Light Brown Silt - Sand
Stratum ID:	218589773	**Top Depth(m):**	0.2
Bottom Depth(m):	2.4	**Stratum Desc:**	Grey-Brown Stiff to Very Stiff Weathered Crust Silty Clay
Stratum ID:	218589774	**Top Depth(m):**	2.4
Bottom Depth(m):	3.7	**Stratum Desc:**	Grey-Brown Compact Till Silt - Sand With: Gr W Cob Trace: Cl
Stratum ID:	218589775	**Top Depth(m):**	3.7
Bottom Depth(m):	8.5	**Stratum Desc:**	Loose to Compact Till Silt - Sand With: Gr W Cob W Blds Trace: Cl
Stratum ID:	218589776	**Top Depth(m):**	8.5

Bottom Depth(m):	9.5	**Stratum Desc:**	Grey Compact Sand With: Gr
Stratum ID:	218589777	**Top Depth(m):**	9.5
Bottom Depth(m):	10.4	**Stratum Desc:**	Grey Very Dense Till Silt - Sand With: Gr W Cob Trace: Cl

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BORE 16 *1 of 1* *E/139.9* *89.4* *ON*

Borehole ID:	847965	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	Decommissioned
Drill Method::	Diamond Drill	**UTM Zone::**	18
Easting::	442427	**Northing::**	5012319
Location Accuracy::		**Orig. Ground Elev m::**	24.4
Elev. Reliability Note::		**DEM Ground Elev m::**	87.5
Total Depth m::	6.4	**Primary Name::**	
Township::	NEPEAN	**Concession::**	CON 2
Lot::	LOT 12	**Municipality:**	
Completion Date::	07-MAR-1961	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	6559416	**Top Depth(m):**	0.0
Bottom Depth(m):	0.9	**Stratum Desc:**	WEATHERED, BROWN, GALCIAL TILL (GRAVEL-LIKE).
Stratum ID:	6559417	**Top Depth(m):**	0.9
Bottom Depth(m):	3.4	**Stratum Desc:**	MEDIUM DENSE, GREY, SANDY, GLACIAL TILL.
Stratum ID:	6559418	**Top Depth(m):**	3.4
Bottom Depth(m):	6.4	**Stratum Desc:**	VERY DENSE, SANDY TO STONY, GREY, GLACIAL TILL.

BORE 17 *1 of 1* *E/170.6* *88.7* *ON*

Borehole ID:	847966	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	Decommissioned
Drill Method::	Diamond Drill	**UTM Zone::**	18
Easting::	442452	**Northing::**	5012297
Location Accuracy::		**Orig. Ground Elev m::**	28.4
Elev. Reliability Note::		**DEM Ground Elev m::**	89.8
Total Depth m::	12.2	**Primary Name::**	
Township::	NEPEAN	**Concession::**	CON 2
Lot::	LOT 12	**Municipality:**	
Completion Date::	09-MAR-1961	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	6559419	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	SANDY TOPSOIL
Stratum ID:	6559420	**Top Depth(m):**	0.2
Bottom Depth(m):	4.0	**Stratum Desc:**	DENSE, WEATHERED, BROWN, STONY, GLACIAL TILL WITH BOULDERS.
Stratum ID:	6559421	**Top Depth(m):**	4.0
Bottom Depth(m):	5.8	**Stratum Desc:**	VERY DENSE TO MEDIUM DENSE, STONY, GREY GLACIAL TILL.
Stratum ID:	6559422	**Top Depth(m):**	5.8

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

Bottom Depth(m):	10.7	**Stratum Desc:**	VERY DENSE, SANDY TO STONY, GREY GLACIAL TILL WITH BOULDERS
Stratum ID:	6559423	**Top Depth(m):**	10.7
Bottom Depth(m):	12.2	**Stratum Desc:**	BEDROCK - GOOD QUALITY LIMESTONE WITH A 5in. SHALE BAND.

BORE 18 **1 of 1** **E/174.3** **88.1** **ON**

Borehole ID:	806659	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	442497.88	**Northing::**	5012388.77
Location Accuracy::		**Orig. Ground Elev m::**	89.3
Elev. Reliability Note::		**DEM Ground Elev m::**	87.5
Total Depth m::	7.9	**Primary Name::**	BH 04-22
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	14-JUN-2004	**Static Water Level::**	3
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218589728	**Top Depth(m):**	0.0
Bottom Depth(m):	0.2	**Stratum Desc:**	Dark Brown Topsoil Silt - Sand
Stratum ID:	218589729	**Top Depth(m):**	0.2
Bottom Depth(m):	3.8	**Stratum Desc:**	Brown Compact to Dense Till Silt - Sand With: Gr W Cob Trace: Cl
Stratum ID:	218589730	**Top Depth(m):**	3.8
Bottom Depth(m):	4.7	**Stratum Desc:**	Brown Compact Sand
Stratum ID:	218589731	**Top Depth(m):**	4.7
Bottom Depth(m):	7.2	**Stratum Desc:**	Grey Compact to Dense Sand - Gravel With: Cob Trace: Si
Stratum ID:	218589732	**Top Depth(m):**	7.2
Bottom Depth(m):	7.9	**Stratum Desc:**	Grey Dense to Very Dense Till Silt - Sand With: Gr W Cob Trace: Cl

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BORE 20 **1 of 1** **E/196.2** **87.2** **ON**

Borehole ID:	806667	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	
Drill Method::	Hollow stem auger	**UTM Zone::**	18
Easting::	442515.35	**Northing::**	5012365.45
Location Accuracy::		**Orig. Ground Elev m::**	89.1
Elev. Reliability Note::		**DEM Ground Elev m::**	86.9
Total Depth m::	7.6	**Primary Name::**	BH 04-23
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	16-JUN-2004	**Static Water Level::**	2.7
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218589759	**Top Depth(m):**	0.0
Bottom Depth(m):	0.3	**Stratum Desc:**	Dark Brown Topsoil Silt - Sand With: Gr W Org M
Stratum ID:	218589760	**Top Depth(m):**	0.3

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

Bottom Depth(m):	2.0	**Stratum Desc:**	Grey-Brown Compact Till Silt - Sand With: Gr Trace: Cl
Stratum ID:	218589761	**Top Depth(m):**	2.0
Bottom Depth(m):	7.6	**Stratum Desc:**	Grey Very Loose to Dense Till Silt - Sand With: Gr W Cob Trace: Cl

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BORE 23 | **1 of 2** | **SSW/215.6** | **94.0** | **ON**

Borehole ID:	612007	**Type:**	Borehole
Use:		**Status::**	
Drill Method::		**UTM Zone::**	18
Easting::	441941	**Northing::**	5012002
Location Accuracy::		**Orig. Ground Elev m::**	92
Elev. Reliability Note::		**DEM Ground Elev m::**	93.9
Total Depth m::	32.6	**Primary Name::**	
Township::		**Concession::**	
Lot::		**Municipality:**	
Completion Date::	MAY-1969	**Static Water Level::**	-999.9
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	218389796	**Top Depth(m):**	0.0
Bottom Depth(m):	2.7	**Stratum Desc:**	CLAY,SAND,BOULDERS.
Stratum ID:	218389797	**Top Depth(m):**	2.7
Bottom Depth(m):	6.7	**Stratum Desc:**	SAND,BOULDERS.
Stratum ID:	218389798	**Top Depth(m):**	6.7
Bottom Depth(m):	8.5	**Stratum Desc:**	SAND.
Stratum ID:	218389799	**Top Depth(m):**	8.5
Bottom Depth(m):	10.1	**Stratum Desc:**	GRAVEL,BOULDERS.
Stratum ID:	218389800	**Top Depth(m):**	10.1
Bottom Depth(m):	32.6	**Stratum Desc:**	LIMESTONE. 00105. WHITE. 00086 = 19500. BEDROCK. SEISMIC VELOCITY = 17000. 200135

BORE 24 | **1 of 1** | **NW/227.6** | **98.2** | **ON**

Borehole ID:	847727	**Type:**	Borehole
Use:	Geotechnical/Geological Investigation	**Status::**	Decommissioned
Drill Method::	Diamond Drill	**UTM Zone::**	18
Easting::	441928	**Northing::**	5012605
Location Accuracy::		**Orig. Ground Elev m::**	99.1
Elev. Reliability Note::		**DEM Ground Elev m::**	99.4
Total Depth m::	10.8	**Primary Name::**	
Township::	NEPEAN	**Concession::**	CON 2
Lot::	LOT 13	**Municipality:**	
Completion Date::	19-MAY-1971	**Static Water Level::**	4
Primary Water Use::		**Sec. Water Use::**	

--Details--

Stratum ID:	6558704	**Top Depth(m):**	0.0
Bottom Depth(m):	1.1	**Stratum Desc:**	SILTY SAND WITH SOME GREY FILL COMPACT
Stratum ID:	6558705	**Top Depth(m):**	1.1
Bottom Depth(m):	10.8	**Stratum Desc:**	HET MIX OF SILT SAND AND GRAVEL

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
					TRACE OF CLAY CLACIAL TILL SAND SEAMS UP TO 1in. THICK BOULDERS UP TO 10' IN SIZE BROWN TO GREY VERY DENSE
EHS	2	1 of 1	SE/29.3	91.7	3392 Jockvale Road Ottawa ON

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20100719058
Addit. Info Ordered::
Report Date: 7/27/2010
Report Type: Custom Report
Search Radius (km): 0.5

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
EHS	5	1 of 1	SW/57.5	95.1	Greenbank Road Ottawa ON

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20080208013
Addit. Info Ordered:: Title Search
Report Date: 2/19/2008
Report Type: Complete Report
Search Radius (km): 0.25

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	1 of 9	W/84.7	94.0	Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: As of May 2015
SIC Code:
SIC Description:

--Details--
Waste Code: 252
Waste Description: Waste crankcase oils and lubricants

Waste Code: 145
Waste Description: Wastes from the use of pigments, coatings and paints

Waste Code: 263
Waste Description: Misc. waste organic chemicals

Waste Code: 148
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 213
Waste Description: Petroleum distillates

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

Waste Code: 251
Waste Description: Waste oils/sludges (petroleum based)

Waste Code: 331
Waste Description: Waste compressed gases including cylinders

Waste Code: 122
Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Code: 146
Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code: 264
Waste Description: Photoprocessing wastes

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	2 of 9	W/84.7	94.0	Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: 07,08
SIC Code: 611690
SIC Description: All Other Schools and Instruction

--Details--
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	3 of 9	W/84.7	94.0	Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:
Country:

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

Generator #: ON8832880
Approval Yrs:: 2010
SIC Code: 611690
SIC Description: All Other Schools and Instruction

--Details--
Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	***7***	***4 of 9***	***W/84.7***	***94.0***	***Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON***

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: 2013
SIC Code: 611690
SIC Description: ALL OTHER SCHOOLS AND INSTRUCTION

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

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 251

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

Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	5 of 9	W/84.7	94.0	Ottawa-Carleton Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: 03,04,05,06
SIC Code:
SIC Description:

--Details--
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	6 of 9	W/84.7	94.0	Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:

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

Country:
Generator #: ON8832880
Approval Yrs:: 2012
SIC Code: 611690
SIC Description: All Other Schools and Instruction

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

GEN	***7***	***7 of 9***	***W/84.7***	***94.0***	***Ottawa Catholic District School Board*** ***3333 Greenbank Road*** ***Nepean ON K2J 4J1***

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: 2011
SIC Code: 611690
SIC Description: All Other Schools and Instruction

--Details--
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

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

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

GEN	***7***	***8 of 9***	***W/84.7***	***94.0***	***Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4J1***

PO Box Num:
Status:
Country:
Generator #: ON8832880
Approval Yrs:: 2009
SIC Code: 611690
SIC Description: All Other Schools and Instruction

--Details--
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 146
Waste Description: OTHER SPECIFIED INORGANICS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 264
Waste Description: PHOTOPROCESSING WASTES

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	7	9 of 9	W/84.7	94.0	Ottawa-Carleton Catholic School Board St. Joseph High School 3333 Greenbank Road Nepean ON K2J 4J1

PO Box Num:
Status:
Country:
Generator #: ON5686001
Approval Yrs:: 02,03,04
SIC Code:
SIC Description:

--Details--
Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 243
Waste Description: PCB'S

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
GEN	15	1 of 1	NW/128.0	96.7	Ottawa Catholic District School Board 3333 Greenbank Road Nepean ON K2J 4T1

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON8832880
Approval Yrs:: As of Sep 2016
SIC Code:
SIC Description:

--Details--
Waste Code: 122 C
Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Code: 145 L
Waste Description: Wastes from the use of pigments, coatings and paints

Waste Code: 145 I
Waste Description: Wastes from the use of pigments, coatings and paints

Waste Code: 146 C
Waste Description: Other specified inorganic sludges, slurries or solids

Waste Code: 148 R

Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 L
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 I
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 C
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 263 L
Waste Description: Misc. waste organic chemicals

Waste Code: 263 I
Waste Description: Misc. waste organic chemicals

Waste Code: 263 A
Waste Description: Misc. waste organic chemicals

Waste Code: 213 L
Waste Description: Petroleum distillates

Waste Code: 213 I
Waste Description: Petroleum distillates

Waste Code: 252 L
Waste Description: Waste crankcase oils and lubricants

Waste Code: 251 T
Waste Description: Waste oils/sludges (petroleum based)

Waste Code: 251 L
Waste Description: Waste oils/sludges (petroleum based)

Waste Code: 264 L
Waste Description: Photoprocessing wastes

Waste Code: 264 C
Waste Description: Photoprocessing wastes

Waste Code: 331 L
Waste Description: Waste compressed gases including cylinders

Waste Code: 331 I
Waste Description: Waste compressed gases including cylinders

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SPL | 19 | 1 of 1 | E/175.5 | 90.4 | TANK TRUCK AT RESIDENCE AT 3415 JOCKVALE ROAD TANK TRUCK (CARGO) NEPEAN CITY ON K2J 4K2

Ref No: 152389
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 2/12/1998
Incident Reason: ERROR
Incident Summary: JOHNSTON BAKER FUELS:12 LOF FURNACE OIL TO GROUND FROM TANK, CLEANED UP.
MOE Reported Dt: 2/13/1998
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Other
Receiving Medium: LAND

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

SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 20104

WWIS 1 — **1 of 1** — **N/11.1** — **94.3** — **lot 14 con 2 ON**

Well ID: 1517629
Construction Date::
Primary Water Use:: Domestic
Sec. Water Use::
Final Well Status:: Water Supply
Specific Capacity::
Municipality: NEPEAN TOWNSHIP
County: OTTAWA-CARLETON

Lot: 014
Concession: 02
Concession Name: RF
Easting NAD83::
Northing NAD83::
Zone::
UTM Reliability::

Bore Hole Information
-- --
Bore Hole ID: 10039501
DP2BR: 32
Code OB: r
Code OB Description: Bedrock
Open Hole:
Date Completed: 16-JUL-81
Remarks:
Zone: 18
East 83: 442129.7
North 83: 5012521
UTMRC: 4
UTMRC Description: margin of error : 30 m - 100 m
Location Method: p4
Org CS:
Elevation: 94.84
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:
Spatial Status:
-- --
Overburden and Bedrock Materials Interval
-- --
Formation ID: 931035795
Layer: 1
General Color: BROWN
Most Common Material: CLAY
Other Materials: BOULDERS
Other Materials: SANDY
Formation Top Depth: 0
Formation End Depth: 9
Formation End Depth UOM: ft
-- --
Formation ID: 931035796
Layer: 2
General Color: BROWN
Most Common Material: SAND
Other Materials: GRAVEL
Other Materials:
Formation Top Depth: 9
Formation End Depth: 22

Formation End Depth UOM:	ft
--	--
Formation ID:	931035797
Layer:	3
General Color:	GREY
Most Common Material:	SAND
Other Materials:	GRAVEL
Other Materials:	
Formation Top Depth:	22
Formation End Depth:	32
Formation End Depth UOM:	ft
--	--
Formation ID:	931035798
Layer:	4
General Color:	BLACK
Most Common Material:	LIMESTONE
Other Materials:	FRACTURED
Other Materials:	
Formation Top Depth:	32
Formation End Depth:	50
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961517629
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10588071
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930069067
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	34
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930069068
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	50
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991517629
Pump Set At:	
Static Level:	8
Final Level After Pumping:	25
Recommended Pump Depth:	35
Pumping Rate:	20
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:	934102160
Pump Test ID:	991517629
Test Type:	Draw Down
Test Duration:	15
Test Level:	25
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934376048
Pump Test ID:	991517629
Test Type:	Draw Down
Test Duration:	30
Test Level:	25
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934645882
Pump Test ID:	991517629
Test Type:	Draw Down
Test Duration:	45
Test Level:	25
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934895575
Pump Test ID:	991517629
Test Type:	Draw Down
Test Duration:	60
Test Level:	25
Test Level UOM:	ft
--	--
--	--
Water Details	
--	--
Water ID:	933474145
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	45
Water Found Depth UOM:	ft
--	--
--	--

WWIS **3** ***1 of 1*** ***WSW/42.0*** ***92.3*** ***lot 13 con 3 ON***

Well ID:	1506043	***Lot:***	013
Construction Date::		***Concession:***	03
Primary Water Use::	Livestock	***Concession Name:***	RF
Sec. Water Use::	Domestic	***Easting NAD83::***	
Final Well Status::	Water Supply	***Northing NAD83::***	
Specific Capacity::		***Zone::***	
Municipality:	NEPEAN TOWNSHIP	***UTM Reliability::***	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	10028086

DP2BR:	19
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	15-FEB-54
Remarks:	
Zone:	18
East 83:	441860.7
North 83:	5012202
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	94.44
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931003638
Layer:	1
General Color:	
Most Common Material:	HARDPAN
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	19
Formation End Depth UOM:	ft
--	--
Formation ID:	931003639
Layer:	2
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	MEDIUM SAND
Other Materials:	
Formation Top Depth:	19
Formation End Depth:	68
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961506043
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10576656
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930048919
Layer:	1
Open Hole or Material:	STEEL
Depth From:	

Depth To:	23
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930048920
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	68
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991506043
Pump Set At:	
Static Level:	10
Final Level After Pumping:	14
Recommended Pump Depth:	
Pumping Rate:	8
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:	25
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933460107
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	52
Water Found Depth UOM:	ft
--	--
--	--

WWIS 4 | **1 of 1** | **ESE/55.9** | **90.4** | **lot 12 con 2 OTTAWA ON**

Well ID:	7152714	**Lot:**	012
Construction Date::		**Concession:**	02
Primary Water Use::	Monitoring	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Test Hole	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	1003611507
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	
Remarks:	
Zone:	

East 83:	
North 83:	
UTMRC:	9
UTMRC Description:	unknown UTM
Location Method:	na
Org CS:	
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611510
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611509
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	
Hole Diameter UOM:	
--	--
--	--
Bore Hole ID:	1003348117
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	N
Date Completed:	13-AUG-10
Remarks:	
Zone:	18
East 83:	442027
North 83:	5012002
UTMRC:	6
UTMRC Description:	margin of error : 300 m - 1 km
Location Method:	wwr
Org CS:	UTM83
Elevation:	92.76
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1003611512
Layer:	1
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	TOPSOIL
Other Materials:	

Formation Top Depth:	0
Formation End Depth:	.61
Formation End Depth UOM:	m
--	--
Formation ID:	1003611513
Layer:	2
General Color:	GREY
Most Common Material:	SILT
Other Materials:	SAND
Other Materials:	WATER-BEARING
Formation Top Depth:	.61
Formation End Depth:	1.22
Formation End Depth UOM:	m
--	--
Formation ID:	1003611514
Layer:	3
General Color:	BROWN
Most Common Material:	SAND
Other Materials:	GRAVEL
Other Materials:	WATER-BEARING
Formation Top Depth:	1.22
Formation End Depth:	3.66
Formation End Depth UOM:	m
--	--
Formation ID:	1003611515
Layer:	4
General Color:	BROWN
Most Common Material:	SILT
Other Materials:	SAND
Other Materials:	GRAVEL
Formation Top Depth:	3.66
Formation End Depth:	4.27
Formation End Depth UOM:	m
--	--
Formation ID:	1003611516
Layer:	5
General Color:	GREY
Most Common Material:	SAND
Other Materials:	SILT
Other Materials:	WATER-BEARING
Formation Top Depth:	4.27
Formation End Depth:	5.49
Formation End Depth UOM:	m
--	--
Formation ID:	1003611517
Layer:	6
General Color:	GREY
Most Common Material:	SILT
Other Materials:	
Other Materials:	WATER-BEARING
Formation Top Depth:	5.49
Formation End Depth:	6.1
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611519
Layer:	1
Plug From:	0
Plug To:	3
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611523

Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611511
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611520
Layer:	1
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	3.1
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611521
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	5.8
--	--
Hole Diameter	
--	--
Hole ID:	1003611518
Diameter:	20
Depth From:	0
Depth To:	6.1
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611498
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	16-AUG-10
Remarks:	
Zone:	18
East 83:	442296
North 83:	5012279
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	

Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611502
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611501
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611503
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611505
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611504
Layer:	
Slot:	
Screen Top Depth:	3
Screen End Depth:	5.4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611506
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	

Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611500
Diameter:	20
Depth From:	
Depth To:	5.4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611489
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	13-AUG-10
Remarks:	
Zone:	18
East 83:	442276
North 83:	5012274
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611493
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611492
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611494
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611496
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2.6

Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611495
Layer:	
Slot:	
Screen Top Depth:	2.6
Screen End Depth:	5.7
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611497
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611491
Diameter:	20
Depth From:	
Depth To:	5.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611480
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	13-AUG-10
Remarks:	
Zone:	18
East 83:	442330
North 83:	5012300
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	

Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611484
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611483
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611485
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611487
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.83
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611486
Layer:	
Slot:	
Screen Top Depth:	1.83
Screen End Depth:	5.4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611488
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	

Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611482
Diameter:	20
Depth From:	
Depth To:	5.4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611471
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	13-AUG-10
Remarks:	
Zone:	18
East 83:	442341
North 83:	5012052
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611475
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611474
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611476
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611478
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	

Depth To:	3.1
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611477
Layer:	
Slot:	
Screen Top Depth:	3.1
Screen End Depth:	6.7
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611479
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611473
Diameter:	20
Depth From:	
Depth To:	6.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611462
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-AUG-10
Remarks:	
Zone:	18
East 83:	442343
North 83:	5012085
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	

Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611466
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611465
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611467
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611469
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	2.4
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611468
Layer:	
Slot:	
Screen Top Depth:	2.4
Screen End Depth:	5.4
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611470
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	

Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611464
Diameter:	20
Depth From:	
Depth To:	5.4
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611453
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-AUG-10
Remarks:	
Zone:	18
East 83:	442316
North 83:	5012083
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611457
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611456
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611458
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611460
Layer:	
Open Hole or Material:	PLASTIC

Depth From:	
Depth To:	3.1
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
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--	--
Construction Record - Screen	
--	--
Screen ID:	1003611459
Layer:	
Slot:	
Screen Top Depth:	3.1
Screen End Depth:	6.7
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611461
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611455
Diameter:	20
Depth From:	
Depth To:	6.7
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
--	--
Bore Hole ID:	1003611444
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	12-AUG-10
Remarks:	
Zone:	18
East 83:	442403
North 83:	5012344
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	

Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003611448
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003611447
Method Construction Code:	
Method Construction:	
Other Method Construction:	HSA
--	--
Pipe Information	
--	--
Pipe ID:	1003611449
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003611451
Layer:	
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.8
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003611450
Layer:	
Slot:	
Screen Top Depth:	1.8
Screen End Depth:	4.8
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	
--	--
Well Yield Testing	
--	--
Pump Test ID:	1003611452
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	

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

Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	
--	--
Hole Diameter	
--	--
Hole ID:	1003611446
Diameter:	20
Depth From:	
Depth To:	4.8
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
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WWIS 6 **2 of 2** **E/70.1** **91.1** **lot 13 con 1 ON**

Well ID:	1509672	**Lot:**	013
Construction Date::		**Concession:**	01
Primary Water Use::	Livestock	**Concession Name:**	RF
Sec. Water Use::	Domestic	**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	10031704
DP2BR:	39
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	22-APR-68
Remarks:	
Zone:	18
East 83:	442370.7
North 83:	5012362
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	92.51
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931012748
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	26
Formation End Depth UOM:	ft

--	--
Formation ID:	931012749
Layer:	2
General Color:	
Most Common Material:	GRAVEL
Other Materials:	MEDIUM SAND
Other Materials:	
Formation Top Depth:	26
Formation End Depth:	39
Formation End Depth UOM:	ft
--	--
Formation ID:	931012750
Layer:	3
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	39
Formation End Depth:	94
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961509672
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10580274
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930056045
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	41
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930056046
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	94
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991509672
Pump Set At:	
Static Level:	8
Final Level After Pumping:	15
Recommended Pump Depth:	60
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:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933464562
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	92
Water Found Depth UOM:	ft
--	--
--	--

WWIS 8 | **1 of 1** | **NNW/91.4** | **96.8** | **lot 13 con 2 ON**

Well ID:	1516112	**Lot:**	013
Construction Date::		**Concession:**	02
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	10038047
DP2BR:	49
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	04-JUL-77
Remarks:	
Zone:	18
East 83:	442070.7
North 83:	5012582
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	98.5
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931031194
Layer:	1
General Color:	GREY
Most Common Material:	CLAY
Other Materials:	STONES
Other Materials:	

Formation Top Depth:	0
Formation End Depth:	49
Formation End Depth UOM:	ft
--	--
Formation ID:	931031195
Layer:	2
General Color:	GREY
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	49
Formation End Depth:	235
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961516112
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10586617
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930066988
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	52
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991516112
Pump Set At:	
Static Level:	8
Final Level After Pumping:	50
Recommended Pump Depth:	50
Pumping Rate:	7
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:	934101654
Pump Test ID:	991516112
Test Type:	Draw Down
Test Duration:	15
Test Level:	50
Test Level UOM:	ft

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

--	--
Pump Test Detail ID:	934379265
Pump Test ID:	991516112
Test Type:	Draw Down
Test Duration:	30
Test Level:	50
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934640361
Pump Test ID:	991516112
Test Type:	Draw Down
Test Duration:	45
Test Level:	50
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934898263
Pump Test ID:	991516112
Test Type:	Draw Down
Test Duration:	60
Test Level:	50
Test Level UOM:	ft
--	--
--	--
Water Details	
--	--
Water ID:	933472348
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	235
Water Found Depth UOM:	ft
--	--
--	--

WWIS	10	**1 of 1**	**SW/97.7**	**93.1**	**NEPEAN ON**

Well ID:	7165137	**Lot:**	
Construction Date::		**Concession:**	
Primary Water Use::	Domestic	**Concession Name:**	
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Alteration	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1003532660
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	28-JUN-11
Remarks:	
Zone:	18
East 83:	441914
North 83:	5012119
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	

Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1003865534
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	m
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003865542
Layer:	1
Plug From:	.05
Plug To:	1.3
Plug Depth UOM:	m
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003865541
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1003865533
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003865537
Layer:	1
Open Hole or Material:	STEEL
Depth From:	.5
Depth To:	1.3
Casing Diameter:	15.86
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
Casing ID:	1003865538
Layer:	2
Open Hole or Material:	STEEL
Depth From:	1.3
Depth To:	
Casing Diameter:	10
Casing Diameter UOM:	cm
Casing Depth UOM:	m
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003865539

Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	
--	--
Hole Diameter	
--	--
Hole ID:	1003865535
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm
--	--
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WWIS 11 | **1 of 1** | **E/113.8** | **91.0** | **lot 12 con 2 ON**

Well ID:	1509673	**Lot:**	012
Construction Date::		**Concession:**	02
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	10031705
DP2BR:	39
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	18-APR-68
Remarks:	
Zone:	18
East 83:	442430.7
North 83:	5012372
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	91.28
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931012751
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	

Other Materials:	
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft
--	--
Formation ID:	931012752
Layer:	2
General Color:	
Most Common Material:	CLAY
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	7
Formation End Depth:	12
Formation End Depth UOM:	ft
--	--
Formation ID:	931012753
Layer:	3
General Color:	
Most Common Material:	MEDIUM SAND
Other Materials:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	26
Formation End Depth UOM:	ft
--	--
Formation ID:	931012754
Layer:	4
General Color:	
Most Common Material:	MEDIUM SAND
Other Materials:	GRAVEL
Other Materials:	
Formation Top Depth:	26
Formation End Depth:	39
Formation End Depth UOM:	ft
--	--
Formation ID:	931012755
Layer:	5
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	39
Formation End Depth:	106
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961509673
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10580275
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930056047
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	44

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

Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930056048
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	106
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991509673
Pump Set At:	
Static Level:	8
Final Level After Pumping:	42
Recommended Pump Depth:	60
Pumping Rate:	10
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	48
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933464563
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	105
Water Found Depth UOM:	ft
--	--
--	--

WWIS	**13**	***1 of 1***	***SSW/122.8***	***94.9***	***lot 12 con 2 ON***

Well ID:	1509671	**Lot:**	012
Construction Date::		**Concession:**	02
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10031703
DP2BR:	35
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	15-MAY-68
Remarks:	
Zone:	18
East 83:	441990.7

North 83:	5012082
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	93.74
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931012743
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	12
Formation End Depth UOM:	ft
--	--
Formation ID:	931012744
Layer:	2
General Color:	
Most Common Material:	MEDIUM SAND
Other Materials:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	26
Formation End Depth UOM:	ft
--	--
Formation ID:	931012745
Layer:	3
General Color:	
Most Common Material:	HARDPAN
Other Materials:	
Other Materials:	
Formation Top Depth:	26
Formation End Depth:	33
Formation End Depth UOM:	ft
--	--
Formation ID:	931012746
Layer:	4
General Color:	
Most Common Material:	HARDPAN
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	33
Formation End Depth:	35
Formation End Depth UOM:	ft
--	--
Formation ID:	931012747
Layer:	5
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	35
Formation End Depth:	169
Formation End Depth UOM:	ft

--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961509671
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10580273
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930056043
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	38
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930056044
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	169
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991509671
Pump Set At:	
Static Level:	11
Final Level After Pumping:	75
Recommended Pump Depth:	100
Pumping Rate:	7
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:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933464560
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	145
Water Found Depth UOM:	ft
--	--
Water ID:	933464561
Layer:	2
Kind Code:	1

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

Kind:	FRESH
Water Found Depth:	167
Water Found Depth UOM:	ft
--	--
--	--

WWIS 21 *1 of 1* *E/203.5* *91.0* *lot 12 con 2 ON*

Well ID:	1505957	**Lot:**	012
Construction Date::		**Concession:**	02
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10028000
DP2BR:	42
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	07-JAN-63
Remarks:	
Zone:	18
East 83:	442500.7
North 83:	5012312
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	91.12
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	931003408
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	32
Formation End Depth UOM:	ft
--	--
Formation ID:	931003409
Layer:	2
General Color:	
Most Common Material:	GRAVEL
Other Materials:	
Other Materials:	
Formation Top Depth:	32
Formation End Depth:	42
Formation End Depth UOM:	ft

--	--
Formation ID:	931003410
Layer:	3
General Color:	GREY
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	42
Formation End Depth:	237
Formation End Depth UOM:	ft
--	--
Formation ID:	931003411
Layer:	4
General Color:	WHITE
Most Common Material:	SANDSTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	237
Formation End Depth:	242
Formation End Depth UOM:	ft
--	--
Formation ID:	931003412
Layer:	5
General Color:	GREY
Most Common Material:	GRANITE
Other Materials:	
Other Materials:	
Formation Top Depth:	242
Formation End Depth:	254
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961505957
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10576570
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930048755
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	48
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930048756
Layer:	2
Open Hole or Material:	STEEL
Depth From:	
Depth To:	196
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	

--	--
Pump Test ID:	991505957
Pump Set At:	
Static Level:	10
Final Level After Pumping:	120
Recommended Pump Depth:	120
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
--	--
Water Details	
--	--
Water ID:	933459996
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	254
Water Found Depth UOM:	ft
--	--
--	--

WWIS 22 | ***1 of 1*** | ***N/208.6*** | ***94.9*** | ***lot 14 con 2 Ottawa ON***

Well ID:	7138980	**Lot:**	014
Construction Date::		**Concession:**	02
Primary Water Use::	Test Hole	**Concession Name:**	RF
Sec. Water Use::	Not Used	**Easting NAD83::**	
Final Well Status::	Abandoned-Other	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1002931872
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	05-JAN-10
Remarks:	
Zone:	18
East 83:	442123
North 83:	5012731
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	96.73
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	

--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1003082421
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	ft
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003082423
Layer:	1
Plug From:	0
Plug To:	29
Plug Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003082429
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1003082420
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003082425
Layer:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003082426
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	
--	--
Hole Diameter	
--	--
Hole ID:	1003082422
Diameter:	
Depth From:	

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

Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch
--	--
--	--

WWIS 23 *2 of 2* *SSW/215.6* *94.0* *lot 12 con 3 ON*

Well ID:	1510111	**Lot:**	012
Construction Date::		**Concession:**	03
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10032141
DP2BR:	33
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	23-MAY-69
Remarks:	
Zone:	18
East 83:	441940.7
North 83:	5012002
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	93.86
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	931013921
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	MEDIUM SAND
Other Materials:	BOULDERS
Formation Top Depth:	0
Formation End Depth:	9
Formation End Depth UOM:	ft
--	--
Formation ID:	931013922
Layer:	2
General Color:	
Most Common Material:	MEDIUM SAND
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	9
Formation End Depth:	22
Formation End Depth UOM:	ft

--	--
Formation ID:	931013923
Layer:	3
General Color:	
Most Common Material:	FINE SAND
Other Materials:	
Other Materials:	
Formation Top Depth:	22
Formation End Depth:	28
Formation End Depth UOM:	ft
--	--
Formation ID:	931013924
Layer:	4
General Color:	
Most Common Material:	GRAVEL
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	28
Formation End Depth:	33
Formation End Depth UOM:	ft
--	--
Formation ID:	931013925
Layer:	5
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	33
Formation End Depth:	107
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961510111
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10580711
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930056896
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	37
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930056897
Layer:	2
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	107
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	

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

--	--
Pump Test ID:	991510111
Pump Set At:	
Static Level:	6
Final Level After Pumping:	20
Recommended Pump Depth:	20
Pumping Rate:	15
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:	10
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933465047
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	105
Water Found Depth UOM:	ft
--	--
--	--

WWIS **25** ***1 of 1*** ***SSW/230.4*** ***93.6*** ***lot 12 con 3 ON***

Well ID:	1510110	**Lot:**	012
Construction Date::		**Concession:**	03
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	10032140
DP2BR:	37
Code OB:	r
Code OB Description:	Bedrock
Open Hole:	
Date Completed:	26-MAY-69
Remarks:	
Zone:	18
East 83:	441950.7
North 83:	5011982
UTMRC:	4
UTMRC Description:	margin of error : 30 m - 100 m
Location Method:	p4
Org CS:	
Elevation:	94.18
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	

--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931013916
Layer:	1
General Color:	
Most Common Material:	CLAY
Other Materials:	MEDIUM SAND
Other Materials:	BOULDERS
Formation Top Depth:	0
Formation End Depth:	4
Formation End Depth UOM:	ft
--	--
Formation ID:	931013917
Layer:	2
General Color:	GREY
Most Common Material:	MEDIUM SAND
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	4
Formation End Depth:	12
Formation End Depth UOM:	ft
--	--
Formation ID:	931013918
Layer:	3
General Color:	GREY
Most Common Material:	FINE SAND
Other Materials:	
Other Materials:	
Formation Top Depth:	12
Formation End Depth:	26
Formation End Depth UOM:	ft
--	--
Formation ID:	931013919
Layer:	4
General Color:	
Most Common Material:	GRAVEL
Other Materials:	MEDIUM SAND
Other Materials:	BOULDERS
Formation Top Depth:	26
Formation End Depth:	37
Formation End Depth UOM:	ft
--	--
Formation ID:	931013920
Layer:	5
General Color:	
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	37
Formation End Depth:	103
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961510110
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10580710
Casing Number:	1
Comment:	

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

Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930056895
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	40
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991510110
Pump Set At:	
Static Level:	7
Final Level After Pumping:	20
Recommended Pump Depth:	25
Pumping Rate:	15
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:	4
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933465046
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	101
Water Found Depth UOM:	ft
--	--
--	--

WWIS	**26**	***1 of 1***	***NW/232.0***	***98.3***	***lot 14 con 2 ON***

Well ID:	1505991	**Lot:**	014
Construction Date::		**Concession:**	02
Primary Water Use::	Domestic	**Concession Name:**	RF
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	10028034
DP2BR:	
Code OB:	o
Code OB Description:	Overburden
Open Hole:	
Date Completed:	16-SEP-54
Remarks:	
Zone:	18
East 83:	441930.7

North 83:	5012622
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	99.73
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	931003499
Layer:	1
General Color:	
Most Common Material:	GRAVEL
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	32
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961505991
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10576604
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930048818
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	30
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991505991
Pump Set At:	
Static Level:	10
Final Level After Pumping:	20
Recommended Pump Depth:	
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1

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

Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933460039
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	32
Water Found Depth UOM:	ft
--	--
--	--

WWIS	27	**1 of 1**	**NNE/232.4**	**91.6**	**lot 13 con 2 Ottawa ON**

Well ID:	7138979	**Lot:**	013
Construction Date::		**Concession:**	02
Primary Water Use::	Test Hole	**Concession Name:**	RF
Sec. Water Use::	Not Used	**Easting NAD83::**	
Final Well Status::	Abandoned-Other	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	NEPEAN TOWNSHIP	**UTM Reliability::**	
County:	OTTAWA-CARLETON		

Bore Hole Information	
--	--
Bore Hole ID:	1002931869
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	05-JAN-10
Remarks:	
Zone:	18
East 83:	442342
North 83:	5012675
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	92.42
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	1003082410
Layer:	
General Color:	
Most Common Material:	
Other Materials:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	

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

Formation End Depth UOM:	ft
--	--
Annular Space/Abandonment Sealing Record	
--	--
Plug ID:	1003082412
Layer:	1
Plug From:	0
Plug To:	36
Plug Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	1003082418
Method Construction Code:	
Method Construction:	
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	1003082409
Casing Number:	0
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	1003082414
Layer:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	1003082415
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	
--	--
Hole Diameter	
--	--
Hole ID:	1003082411
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch
--	--
--	--

DB	Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site
WWIS	28	1 of 1	SSW/234.9	93.5	lot 12 con 3 NEPEAN ON

Well ID:	7156858	**Lot:**	012
Construction Date::		**Concession:**	03

Primary Water Use::	Domestic	***Concession Name:***	RF
Sec. Water Use::		***Easting NAD83::***	
Final Well Status::	Water Supply	***Northing NAD83::***	
Specific Capacity::		***Zone::***	
Municipality:	NEPEAN TOWNSHIP	***UTM Reliability::***	
County:	OTTAWA-CARLETON		

Bore Hole Information

--	--
Bore Hole ID:	1003444404
DP2BR:	
Code OB:	
Code OB Description:	
Open Hole:	
Date Completed:	02-NOV-10
Remarks:	
Zone:	18
East 83:	441909
North 83:	5011981
UTMRC:	3
UTMRC Description:	margin of error : 10 - 30 m
Location Method:	wwr
Org CS:	UTM83
Elevation:	
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--

Overburden and Bedrock Materials Interval

--	--
Formation ID:	1003740116
Layer:	1
General Color:	
Most Common Material:	SAND
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	33
Formation End Depth UOM:	ft
--	--
Formation ID:	1003740117
Layer:	2
General Color:	GREY
Most Common Material:	LIMESTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	33
Formation End Depth:	205
Formation End Depth UOM:	ft
--	--
Formation ID:	1003740118
Layer:	3
General Color:	GREY
Most Common Material:	SANDSTONE
Other Materials:	
Other Materials:	
Formation Top Depth:	205
Formation End Depth:	220
Formation End Depth UOM:	ft
--	--

Annular Space/Abandonment

Sealing Record
-- --
Plug ID: 1003740156
Layer: 1
Plug From: 0
Plug To: 28
Plug Depth UOM: ft
-- --
Plug ID: 1003740157
Layer: 2
Plug From: 28
Plug To: 38
Plug Depth UOM: ft
-- --
Method of Construction & Well Use
-- --
Method Construction ID: 1003740154
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:
-- --
Pipe Information
-- --
Pipe ID: 1003740114
Casing Number: 0
Comment:
Alt Name:
-- --
Construction Record - Casing
-- --
Casing ID: 1003740124
Layer: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 38
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft
-- --
Casing ID: 1003740125
Layer: 2
Open Hole or Material: OPEN HOLE
Depth From: 38
Depth To: 220
Casing Diameter: 6.375
Casing Diameter UOM: inch
Casing Depth UOM: ft
-- --
-- --
Construction Record - Screen
-- --
Screen ID: 1003740126
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:
-- --
Well Yield Testing
-- --
Pump Test ID: 1003740115
Pump Set At: 200
Static Level: 16

Final Level After Pumping:	16.9
Recommended Pump Depth:	100
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	3
Water State After Test:	OTHER
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	
--	--
Draw Down & Recovery	
--	--
Pump Test Detail ID:	1003740127
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	1
Test Level:	16.7
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740128
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	1
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740129
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	2
Test Level:	16.7
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740130
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	2
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740131
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	3
Test Level:	16.7
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740132
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	3
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740133
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	4
Test Level:	16.7
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740134
Pump Test ID:	1003740115

Test Type:	Recovery
Test Duration:	4
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740135
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	5
Test Level:	16.8
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740136
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	5
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740137
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	10
Test Level:	16.8
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740138
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	10
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740139
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	15
Test Level:	16.8
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740140
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	15
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740141
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	20
Test Level:	16.8
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740142
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	20
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740143
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	25
Test Level:	16.8
Test Level UOM:	ft

--	--
Pump Test Detail ID:	1003740144
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	25
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740145
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	30
Test Level:	16.9
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740146
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	30
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740147
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	40
Test Level:	16.9
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740148
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	40
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740149
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	50
Test Level:	16.9
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740150
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	50
Test Level:	16
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740151
Pump Test ID:	1003740115
Test Type:	Draw Down
Test Duration:	60
Test Level:	16.9
Test Level UOM:	ft
--	--
Pump Test Detail ID:	1003740152
Pump Test ID:	1003740115
Test Type:	Recovery
Test Duration:	60
Test Level:	16
Test Level UOM:	ft
--	--
--	--
Water Details	
--	--

Water ID:	1003740121
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	140
Water Found Depth UOM:	ft
--	--
Water ID:	1003740122
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	185
Water Found Depth UOM:	ft
--	--
Water ID:	1003740123
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	210
Water Found Depth UOM:	ft
--	--
Hole Diameter	
--	--
Hole ID:	1003740119
Diameter:	6
Depth From:	0
Depth To:	38
Hole Depth UOM:	ft
Hole Diameter UOM:	inch
--	--
Hole ID:	1003740120
Diameter:	.638
Depth From:	38
Depth To:	220
Hole Depth UOM:	ft
Hole Diameter UOM:	inch
--	--
--	--

Unplottable Summary

Total: 31 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CARLETON ROMAN CATHOLIC SCHOOL BOARD	LONGFIELDS DR., PT.LOT 18/C-2	NEPEAN CITY ON	
CA	CITY	GREENBANK RD./EASEMENT	NEPEAN CITY ON	
CA	CITY	GREENBANK RD./EASEMENT	NEPEAN CITY ON	
CA	NEPEAN CITY	GREENBANK RD.	NEPEAN CITY ON	
CA	NEPEAN CITY	LONGFIELDS DR.,PT.LOT 19/CON.2	NEPEAN CITY ON	
CA	MINISTRY OF THE ENVIR.-GREENBANK RD.	REG. RD. #13/JOCK RIVER/MUD CK	NEPEAN CITY ON	
CA	Village Square Mall	Regional Road No. 13	Ottawa ON	
CA	South Nepean High School	Part of Lot 13, Concession 2 Rideau Front	Ottawa ON	
CA	South Nepean High School	Part of Lot 13, Concession 2 Rideau Front	Ottawa ON	
CA	Kinross Court	Part of Lot 13, Concession	Ottawa ON	
CA	ROCKY PANTALONE - WEST END STATION RESTA	PT. LOT 13 & 14 CONC. 2	NEPEAN CITY ON	
CA	City of Ottawa	Lot 13	Ottawa ON	
CA	Hugh Robert Sparks	Lot 12, Conc. 3, March Tp	Ottawa ON	
CA	CARLETON ROMAN CATHOLIC SCHOOL BOARD	LONGFIELDS BLVD.,BARRHAVEN H.S	NEPEAN CITY ON	
CA	MONARCH CONSTRUCTION LIMITED	ST.A/JOCKVALE RD/ST.G	NEPEAN CITY ON	
CA	MONARCH CONSTRUCTION LIMITED	ST.A/JOCKVALE RD/ST.G	NEPEAN CITY ON	
CA	St. Vincent Hospital	Lot 1, Pt. Lot 14, RP# 11285 & Lots 1-19, RP# 3459	Ottawa ON	

EBR	Velika Realty Inc.	Lot 12, Concession 3	Ottawa ON	
ECA	City of Ottawa	Jockvale Road	Ottawa ON	
ECA	City of Ottawa	Jockvale Road	Ottawa ON	
ECA	City of Ottawa	Jockvale Road	Ottawa ON	
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3	OTTAWA ON	
FST	HYLANDS GOLF CLUB	LOT 13 14 & 15 CON 3	OTTAWA ON	
GEN	IMPERIAL OIL	LESLIE PARK EAST-GREENBANK ROAD PLAN 551284, LOT C	NEPEAN ON	
GEN	NEPEAN HYDRO 28-588	BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD	NEPEAN ON	K2C 3G2
GEN	NEPEAN HYDRO	BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD	NEPEAN ON	K2C 3G2
GEN	IMPERIAL OIL 37-320	LESLIE PARK EAST-GREENBANK RD PL 551284 LT.C NEPEAN C/O 605 INDUSTRIAL AVE.	OTTAWA ON	K1G 3K4
NPCB	ONTARIO HYDRO	TP 2996,LOT 14,15,16 LLSGAR T.S., R.M. OTTAWA-CARLE	OTTAWA ON	
NPCB	ONTARIO HYDRO	LISGAR T.S., R.M. OTTAWA-CARLE; TP 2996,LOT 14,15,	OTTAWA ON	
SPL	Clean Water Works Inc.; City of Ottawa	Greenbank Rd	Ottawa ON	
SPL	City of Ottawa	Greenbank Rd northbound at Belman Rd (N of Hunt Club)	Ottawa ON	

Unplottable Report

Database: CA

Site: CARLETON ROMAN CATHOLIC SCHOOL BOARD
LONGFIELDS DR., PT.LOT 18/C-2 NEPEAN CITY ON

Certificate #: 3-1646-97-
Application Year: 97
Issue Date: 1/2/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: CA

Site: CITY
GREENBANK RD./EASEMENT NEPEAN CITY ON

Certificate #: 3-0235-85-006
Application Year: 85
Issue Date: 4/2/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: CA

Site: CITY
GREENBANK RD./EASEMENT NEPEAN CITY ON

Certificate #: 3-0207-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: CA

Site: ***NEPEAN CITY***
GREENBANK RD. NEPEAN CITY ON

Certificate #:	3-1646-88-
Application Year:	88
Issue Date:	9/15/1988
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	
Contaminants::	
Emission Control::	

Database: CA

Site: ***NEPEAN CITY***
LONGFIELDS DR.,PT.LOT 19/CON.2 NEPEAN CITY ON

Certificate #:	3-1506-94-
Application Year:	94
Issue Date:	11/21/1994
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	
Contaminants::	
Emission Control::	

Database: CA

Site: ***MINISTRY OF THE ENVIR.-GREENBANK RD.***
REG. RD. #13/JOCK RIVER/MUD CK NEPEAN CITY ON

Certificate #:	7-0930-92-
Application Year:	92
Issue Date:	11/25/1992
Approval Type:	Municipal water
Status:	Revised
Application Type:	
Client Name::	
Client Address::	
Client City::	
Client Postal Code::	
Project Description::	
Contaminants::	
Emission Control::	

Database: CA

Site: ***Village Square Mall***
Regional Road No. 13 Ottawa ON

Certificate #:	7752-4VBMMJ
Application Year:	01
Issue Date:	4/2/01
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name::	The Village Square Mall (Barrhaven) Inc.
Client Address::	17 Fitzgerald Road

Client City:: Nepean
Client Postal Code:: K2H 9G1
Project Description:: Storm and sanitary sewers to be constructed on Greenbank Road
Contaminants::
Emission Control::

Database: ***CA***

Site: ***South Nepean High School***
Part of Lot 13, Concession 2 Rideau Front Ottawa ON

Certificate #: 5530-56PKWF
Application Year: 02
Issue Date: 3/8/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Ottawa carleton Catholic School Board
Client Address:: 1224 Main St.
Client City:: Stittsville
Client Postal Code:: K2S 1B2
Project Description:: Sanitary sewer collection system, sewage pumping station, sanitary forcemain and sanitary sewer construction
Contaminants::
Emission Control::

Database: ***CA***

Site: ***South Nepean High School***
Part of Lot 13, Concession 2 Rideau Front Ottawa ON

Certificate #: 2054-57GJUQ
Application Year: 02
Issue Date: 2/20/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Ottawa carleton Catholic School Board
Client Address:: 1224 Main St.
Client City:: Stittsville
Client Postal Code:: K2S 1B2
Project Description:: On-site storm drainage system with an off-site drainage swale forming a stormwater management system.
Contaminants::
Emission Control::

Database: ***CA***

Site: ***Kinross Court***
Part of Lot 13, Concession Ottawa ON

Certificate #: 0660-53CRDY
Application Year: 01
Issue Date: 10/11/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Tenth Line Development Inc.
Client Address:: 210 Gladstone Avenue, Suite 2001
Client City:: Ottawa
Client Postal Code:: K2P 0Y6
Project Description:: Storm sewer construction.
Contaminants::
Emission Control::

Database: ***CA***

Site: ***ROCKY PANTALONE - WEST END STATION RESTA***
PT. LOT 13 & 14 CONC. 2 NEPEAN CITY ON

Certificate #: 8-4088-96-
Application Year: 96
Issue Date: 4/10/1996
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: KITCHEN EXHAUST FOR RESTAURANT
Contaminants::
Emission Control::

Database: ***CA*** ***Site:*** ***City of Ottawa***
Lot 13 Ottawa ON

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

Database: ***CA*** ***Site:*** ***Hugh Robert Sparks***
Lot 12, Conc. 3, March Tp Ottawa ON

Certificate #: 7694-6AHJ4J
Application Year: 2005
Issue Date: 3/17/2005
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: ***CA*** ***Site:*** ***CARLETON ROMAN CATHOLIC SCHOOL BOARD***
LONGFIELDS BLVD.,BARRHAVEN H.S NEPEAN CITY ON

Certificate #: 8-4183-97-
Application Year: 97
Issue Date: 12/2/1997
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::

Project Description:: LAB FUMEHOOD, DIESEL GEN-SET, AUTO SHOP
Contaminants:: Nitrogen Oxides, Odour/Fumes, Hydrogen Chloride
Emission Control:: Muffler, Noise Control - Acoustic Louvre

Database: CA

Site: ***MONARCH CONSTRUCTION LIMITED***
ST.A/JOCKVALE RD/ST.G NEPEAN CITY ON

Certificate #: 7-0816-99-
Application Year: 99
Issue Date: 10/13/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: CA

Site: ***MONARCH CONSTRUCTION LIMITED***
ST.A/JOCKVALE RD/ST.G NEPEAN CITY ON

Certificate #: 3-1197-99-
Application Year: 99
Issue Date: 10/13/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Database: CA

Site: ***St. Vincent Hospital***
Lot 1, Pt. Lot 14, RP# 11285 & Lots 1-19, RP# 3459 Ottawa ON

Certificate #: 8685-5BAKLG
Application Year: 02
Issue Date: 6/28/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name:: Sisters of Charity of Ottawa Health Services
Client Address:: St. Vincent Hospital, 60 Cambridge Street North
Client City:: Ottawa
Client Postal Code:: K1R 7A5
Project Description:: This application is for the approval to modify stormwater management facilities for reconstruction of an existing parking lot to provide a drive thru on the south side of the site to match the controlled release rate of 15.5 L/s as specified for this area in a 1996 report. The release rates from storage for this area on the south side of the site will be controlled by a hydrovex orifice installed and by replacing the existing orifice in existing catchbasins 3 with a new size. In addition, stormwater management facilities have been designed for the reconstructed parking lot and roof area on the north side of the site. A sanitary drain will be supplied and this service will connect into the combined sewer in Cambridge Street.
Contaminants::
Emission Control::

Database: EBR **Site:** ***Velika Realty Inc.***
Lot 12, Concession 3 Ottawa ON

EBR Registry No.:	012-0726
Year:	2013
Notice Type:	Instrument Decision
Instrument Type:	(ESA s.17(2) (c)) - Permit for activities with conditions to achieve overall benefit to the species
Ministry Ref. No.:	MNR INST 71/13
Proposal Date:	December 27, 2013
Location:	Lot 12, Concession 3, Geographic Township of Osgoode South West side of Stage Coach Road, between Apple Orchard and Herberts Corners Roads south of Greely. Municipal address is 1934 Stage Coach Road. CITY OF OTTAWA
Proponent Address:	275 Slater Street, Ottawa Ontario, Canada K1P 5H9
Notice Date:	

Database: ECA **Site:** ***City of Ottawa***
Jockvale Road Ottawa ON

Record Type:	
PDF URL:	
Full Address:	
CofA Number:	7270-8TXKR2
Date:	5/4/2012
Status:	Approved
Project Type:	Municipal and Private Sewage

Database: ECA **Site:** ***City of Ottawa***
Jockvale Road Ottawa ON

Record Type:	
PDF URL:	
Full Address:	
CofA Number:	1355-8UBRGV
Date:	5/24/2012
Status:	Approved
Project Type:	Municipal and Private Sewage

Database: ECA **Site:** ***City of Ottawa***
Jockvale Road Ottawa ON

Record Type:	
PDF URL:	
Full Address:	
CofA Number:	1216-8Y2SKS
Date:	9/18/2012
Status:	Approved
Project Type:	Municipal and Private Sewage

Database: FST **Site:** ***HYLANDS GOLF CLUB***
LOT 13 14 & 15 CON 3 OTTAWA ON

Instance Number:	10904209
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Diesel
Status:	Active
Capacity:	4540
Tank Material:	Steel

Corrosion Protection: Impressed Current
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Type: FS Liquid Fuel Tank

Database: ***FST*** ***Site:*** ***HYLANDS GOLF CLUB***
LOT 13 14 & 15 CON 3 OTTAWA ON

Instance Number: 10904186
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 10000
Tank Material: Steel
Corrosion Protection: Impressed Current
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Type: FS Liquid Fuel Tank

Database: ***GEN*** ***Site:*** ***IMPERIAL OIL***
LESLIE PARK EAST-GREENBANK ROAD PLAN 551284, LOT C NEPEAN ON

PO Box Num:
Status:
Country:
Generator #: ON1315711
Approval Yrs:: 92,93,97,98,99,00,01
SIC Code: 5111
SIC Description: PETROLEUM PROD., WH.

--Details--
Waste Code: 221
Waste Description: LIGHT FUELS

Database: ***GEN*** ***Site:*** ***NEPEAN HYDRO 28-588***
BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD NEPEAN ON K2C 3G2

PO Box Num:
Status:
Country:
Generator #: ON0453105
Approval Yrs:: 92,93,94,95,96,97,98
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

--Details--
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Database: ***GEN*** ***Site:*** ***NEPEAN HYDRO***

BARRHAVEN D.S., GREENBANK ROAD C/O 1970 MERIVALE ROAD NEPEAN ON K2C 3G2

PO Box Num:
Status:
Country:
Generator #: ON0453105
Approval Yrs:: 89,90
SIC Code: 4911
SIC Description: ELECT. POWER SYS.

--Details--
Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Database: ***GEN*** ***Site:*** ***IMPERIAL OIL 37-320***
LESLIE PARK EAST-GREENBANK RD PL 551284 LT.C NEPEAN C/O 605 INDUSTRIAL AVE. OTTAWA ON K1G 3K4

PO Box Num:
Status:
Country:
Generator #: ON1315711
Approval Yrs:: 94,95,96
SIC Code: 5111
SIC Description: PETROLEUM PROD., WH.

--Details--
Waste Code: 221
Waste Description: LIGHT FUELS

Database: ***NPCB*** ***Site:*** ***ONTARIO HYDRO***
TP 2996,LOT 14,15,16 LLSGAR T.S., R.M. OTTAWA-CARLE OTTAWA ON

Company Code: O0902
Industry: UTILITY
Site Status:
Transaction Date: 5/31/1988
Inspection Date:

Database: ***NPCB*** ***Site:*** ***ONTARIO HYDRO***
LISGAR T.S., R.M. OTTAWA-CARLE; TP 2996,LOT 14,15, OTTAWA ON

Company Code: O0902
Industry: Utility
Site Status:
Transaction Date: 5/31/1988
Inspection Date:

Database: ***SPL*** ***Site:*** ***Clean Water Works Inc.; City of Ottawa***
Greenbank Rd Ottawa ON

Ref No: 8678-9X4KTE
Contaminant Code: 27
Contaminant Name: OIL ADDITIVES

Contaminant Quantity:	2000 L
Incident Cause:	Unknown / N/A
Incident Dt:	6/2/2015
Incident Reason:	Unknown / N/A
Incident Summary:	2000L oily substance in excavated pit
MOE Reported Dt:	6/2/2015
Environmental Impact:	
Nature of Impact:	Land
Receiving Medium:	
SAC Action Class:	Land Spills
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	Ottawa

Database: ***SPL***

Site: ***City of Ottawa***
Greenbank Rd northbound at Belman Rd (N of Hunt Club) Ottawa ON

Ref No:	8317-8PB698
Contaminant Code:	27
Contaminant Name:	COOLANT (N.O.S.)
Contaminant Quantity:	40 L
Incident Cause:	
Incident Dt:	12/6/2011
Incident Reason:	
Incident Summary:	OC Transpo- coolant to CB
MOE Reported Dt:	12/6/2011
Environmental Impact:	Not Anticipated
Nature of Impact:	
Receiving Medium:	Sewage - Municipal/Private and Commercial
SAC Action Class:	Land Spills
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	Ottawa

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 2016

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2014

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: Oct 31, 2016

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: Oct 31, 2016

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: Oct 31, 2016

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-Jan 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-Jan 2017

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-Aug 2015

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-Nov 2016

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-Jan 2017

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-Nov 2016

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-Aug 2016

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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Oct 31, 2016

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: June 2000-Aug 2016

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-Sept 2003

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: Oct 31, 2016

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-Sep 2016

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 2014

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: Oct 31, 2016

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*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Feb 2016

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, 2014

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-Aug 2010

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 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: 1993-2014

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-Jun 2016

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Oct 2016

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-Jan 2017

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

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-Oct 2016

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: Oct 31, 2016

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-Jan 2017

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: 1986-2013

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: Oct 31, 2016

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Dec 2016

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-2014

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

The TSSA, under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

Government Publication Date: Oct 31, 2016

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: 1970-Nov 2016

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Jun 30, 2016

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX C

Site Photographs

Photo 1: *Looking west at snow covered land located on the eastern portion of the Site. The old piece of metal farm equipment is visible on the southeast corner of the Site.*

Photo 2: *Looking south at the snow covered land on the southern portion of the Site followed by construction activities on the former nursery property at 3392 Jockvale Road.*

Photo 3: *Photo of the rock pile and row of trees on the central portion of the Site and the snow covered land on the western portion of the Site looking west.*

Photo 4: *Shingles and wooden debris located on the southwest portion of the Site.*

Photo 5: Metal debris located on the southwest portion of the Site.

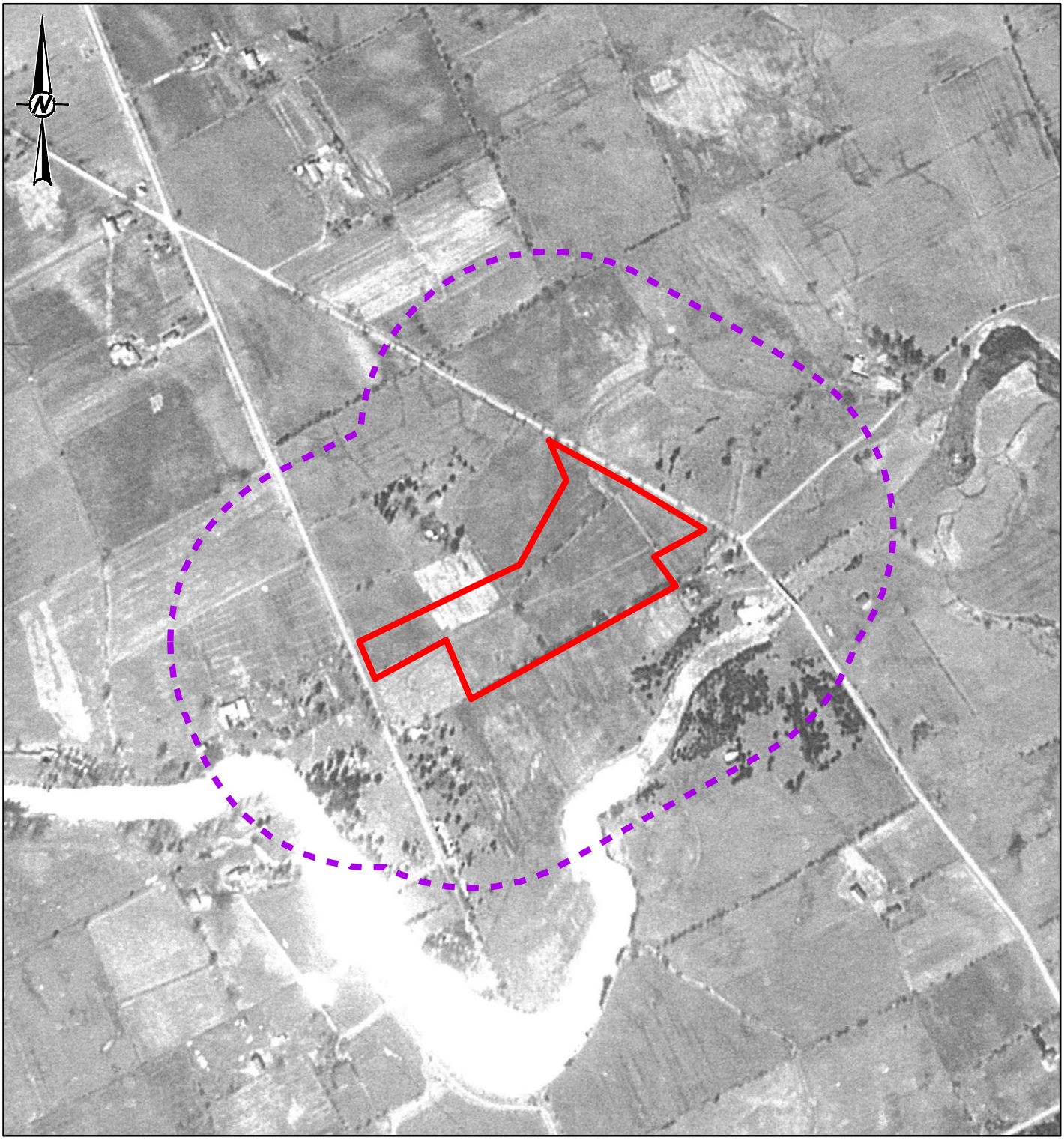
Photo 6: Looking west at Greenbank Road and construction activities for the South Nepean Collector sewer on the adjacent land west of the Site.

Photo 7: *Photo of the school located on the adjacent land north of the Site looking north.*

Photo 8: *Looking south at the lay down area for the construction of the South Nepean Collector sewer located south of the Site at the former nursery property at 3392 Jockvale Road.*

APPENDIX D

Aerial Photographs



LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 75 150 300

1:7,500 METRES

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT

MINTO COMMUNITIES - CANADA

PROJECT

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE

1947 AIR PHOTO

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	APPENDIX
1773927	2000	0	**D1**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm 0

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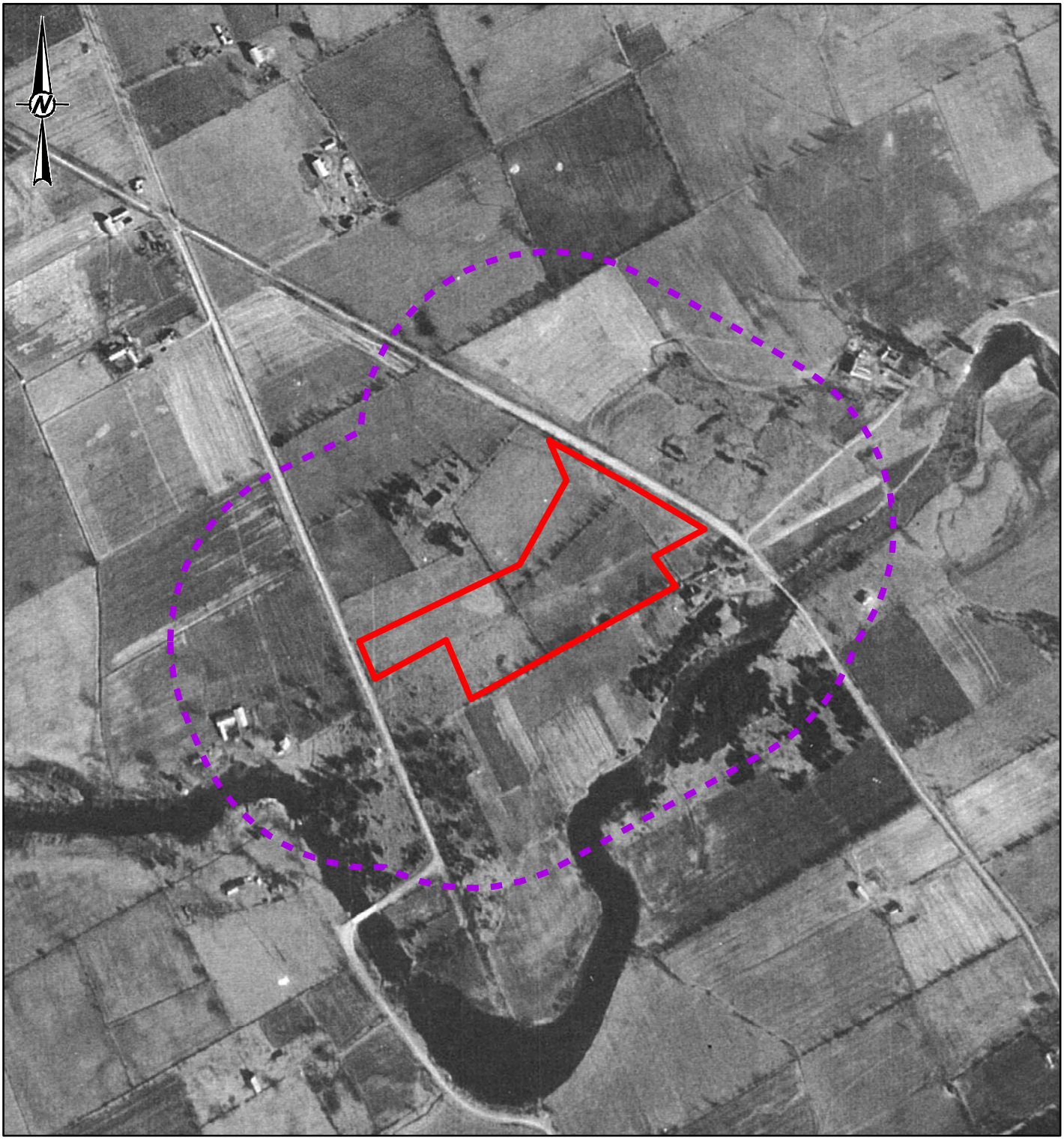

LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 75 150 300

1:7,500 METRES

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT

MINTO COMMUNITIES - CANADA

PROJECT

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE

1953 AIR PHOTO

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	APPENDIX
1773927	2000	0	**D2**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM:
25mm
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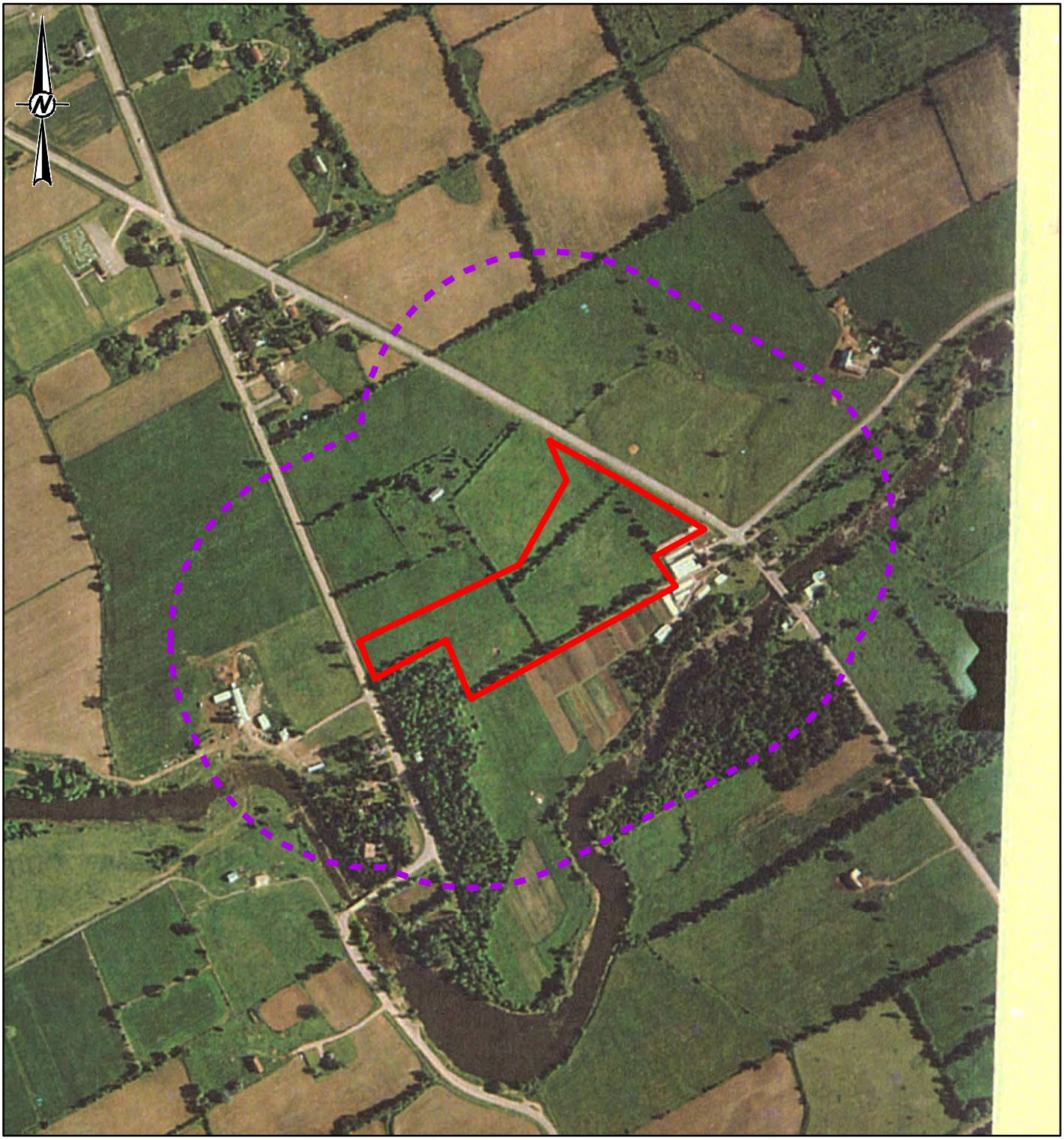

LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 75 150 300

1:7,500 METRES

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1773927-2000.

REFERENCE(S)

1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT

MINTO COMMUNITIES - CANADA

PROJECT

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
3311 GREENBANK ROAD, OTTAWA, ONTARIO

TITLE

1985 AIR PHOTO

CONSULTANT

Golder Associates

YYYY-MM-DD	2017-03-06
DESIGNED	----
PREPARED	JEM
REVIEWED	AT
APPROVED	EDW

PROJECT NO.	PHASE	REV.	APPENDIX
1773927	2000	0	**D3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm 0

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For more information, visit golder.com

Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 44 1628 851851
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

Golder Associates Ltd.
1931 Robertson Road
Ottawa, Ontario, K2H 5B7
Canada
T: +1 (613) 592 9600

Golder Associates