FINAL REPORT

Phase One Environmental Site Assessment

PIN 045891862, PIN 045890409, and Part of PIN 045890405

Submitted to:

Nicolls Island Holdings Inc.
c/o Regional Group of Companies Inc.
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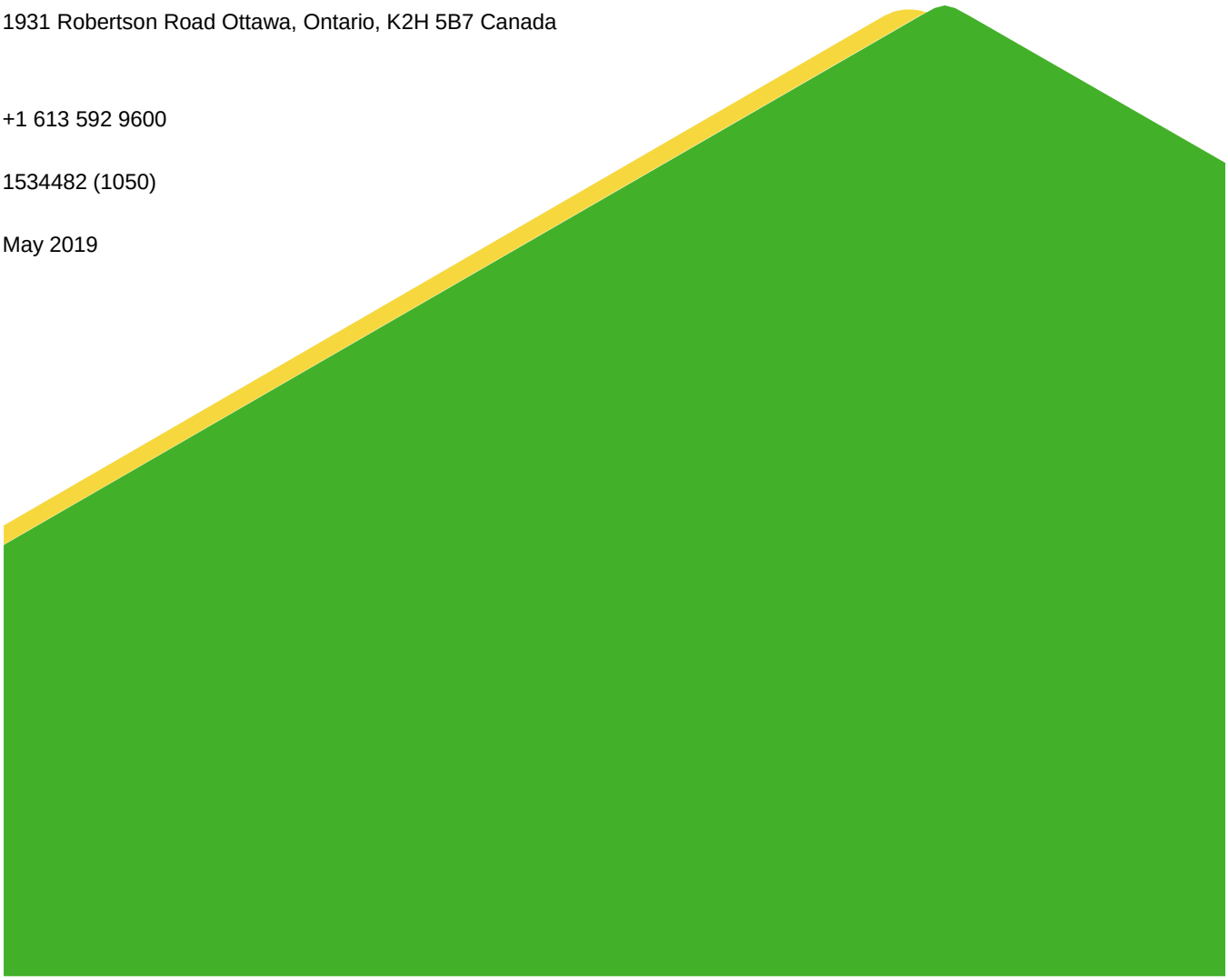
May 2019



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Executive Summary

Golder Associates Ltd. (Golder) was retained by Nicolls Island Holdings Inc. c/o Regional Group (the "Regional Group") to conduct a Phase One Environmental Site Assessment (Phase One ESA) for a parcel of land located approximately 450 m northwest of the intersection between River Road and Nicolls Island Road in Ottawa, Ontario (the "Site" and the "Phase One Property"). The Site consists of an undeveloped parcel of land with a property identification number (PIN) of 045891862 (no municipal address available), part of an undeveloped parcel of land addressed as 425 Nicolls Island Road (PIN 045890405), and, a parcel of land on the northeast portion of the Site address as 788 River Road (PIN 045891862).

The Site, occupies an area of approximately 5.8 hectares (calculated using Google Earth), consisting primarily of undeveloped agricultural land with no associated buildings or structures, except for a single family residence located on the northeast corner of the Site (#788 River Road, the "Site Building"). The Site is bounded by a residential building and forested lands to the north; River Road followed by residential houses and agricultural lands to the east; vacant land to the south; and a campground followed by the Rideau River to the west.

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.

Based on the information obtained as part of this Phase One ESA, two Potentially Contaminating Activities (PCAs) were identified in the Phase One Study Area, one of which was on the Phase One Property. Based on site characteristics and the locations of the off-Site PCA, a total of one (1) Area of Potential Environmental Concern (APEC) was identified for the Phase One Property (indicated in table below).

APEC	Location of APEC at the Site	Potentially Contaminating Activity (PCA)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or Sediment)
1. Former and/or current presence of furnace oil UST adjacent northeast of the Site Building (APEC 1)	Northeast portion of the Site	#28. Gasoline and Associated Products Storage in Fixed Tanks	PHCs F1-F4, BTEX	Soil and Groundwater

Based on the information obtained as part of this Phase One ESA, the presence of former and/or current furnace oil UST associated with the Site Building is considered an APECs for the Site. A Phase Two ESA is recommended to investigate soil and groundwater quality on the northeast portion of the Site near the residence for potential impacts related to the furnace oil UST.

At the time of writing this report, no responses have been received to information requests sent to the MECP. If responses are received within 12 months of request submittal, Golder will review the response and advise of any noteworthy findings.

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1.0 INTRODUCTION

1.1 Background and Objective

Golder Associates Ltd. (Golder) was retained by Nicolls Island Holdings Inc. c/o Regional Group (the "Regional Group") to conduct a Phase One Environmental Site Assessment (Phase One ESA) for a parcel of land located approximately 450 m northwest of the intersection between River Road and Nicolls Island Road in Ottawa, Ontario (the "Site" and the "Phase One Property"). The Site consists of an undeveloped parcel of land with a property identification number (PIN) of 045891862 (no municipal address available), part of an undeveloped parcel of land addressed as 425 Nicolls Island Road (PIN 045890405), and, a parcel of land on the northeast portion of the Site address as 788 River Road (PIN 045891862). The location, surroundings, and layout of the Site are shown on Figure 1 – Key Plan.

The Site, occupies an area of approximately 5.8 hectares (calculated using Google Earth), consisting primarily of undeveloped agricultural land with no associated buildings or structures, except for a single family residence located on the northeast corner of the Site (#788 River Road, the "Site Building"). The Site is bounded by a residential building and forested lands to the north; River Road followed by residential houses and agricultural lands to the east; vacant land to the south; and a campground followed by the Rideau River to the west. The property information for the Site is as follows:

Municipal Address	788 River Road (northeast portion of the Site)
Property Identification Number	045891862, 045890409, and part of 045890405
Legal Description	PT LT 23 Con BFRF Gloucester Part 2, 5R494; GLOUCESTER (788 River Road – PIN 045890409) PART LOT 23, Concession Broken Front,(RF) Gloucester Being Part 1 On Plan 4R-30806 City of Ottawa (No formal address - PIN 045891862) Part of Pt Lt 24 Con BFRF Gloucester Part 1, 4r8445 ; Gloucester (425 Nicholls Island Road – PIN 045890405)

Authorization to proceed with this investigation was received from Mr. Steve Cunliffe (Manager, Land Development) of the Regional Group on January 14, 2019. At the time of the Site visit, the majority of the Phase One Property (associated with PIN 045890409) was owned by Nicolls Island Holdings Inc. and 788 River Road was owned by Ms. Diane Gariepy. Part of 425 Nicolls Island Road included in this Phase One ESA was owned by Dave Wright Holding Corporation. The respective owners of the lands included as part of this Phase One Property granted permission for access to the Site to undertake the Phase One ESA. The contact information for the Site is:

Client	Address	Contact Information
Nicolls Island Holdings Inc.	1737 Woodward Drive, 2nd Floor, Ottawa ON K2C 0P9	Mr. Steve Cunliffe Phone: 613) 230-2100 Email: scunliffe@regionalgroup.com

2.0 SCOPE OF WORK

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.

In this instance the Phase One ESA was undertaken for development site plan application to the City of Ottawa for proposed residential subdivision by Nicolls Island Holdings Inc.

In preparing this Phase One ESA, Golder has applied professional judgement in considering readily-available information and has relied in good faith on information provided by others. This level of effort is a method of risk reduction rather than risk elimination. This assessment included a cursory overview of the neighbouring land uses and does not constitute a complete assessment of neighbouring land uses. Further reductions in risk can be achieved through a program of intrusive testing at the Site, including sample collection and analysis.

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, fire insurance plans (FIPs), City of Ottawa HLUI and information provided by the Site representative. The earliest available aerial photograph from 1936 indicates that the Phase One Property was undeveloped and may have been used for agricultural purposes. Aerial photographs from later years indicate that the Site primarily remained undeveloped until present time except for the northeast portion, which was developed with a residential building prior to 1976 (reportedly constructed in the 1960s).

3.1.3 Fire Insurance Records

No fire insurance plans ("FIPs") related to the Site and Study Area were available.

3.1.4 Chain of Title

A title search was not provided for review for this Phase One ESA. Based on the nature of the Site, undeveloped since earliest available photograph from 1936, a title search was not carried out as it would provide minimal relevant environmental information. In addition, information available from previous and current owners of the Site indicated that the Site has always been undeveloped agricultural lands except for the northeast portion which consists of a residential building reportedly constructed in 1960s.

3.1.5 City Directories

A significant amount of information for the Site and surrounding properties was obtained from the aerial photographs previously discussed and the ERIS report and the City of Ottawa Historical Land Use Inventory (HLUI) discussed in Sections 3.2.1 and 3.2.3, respectively. In addition, majority of the Site has been undeveloped lands since 1936 with the exception of the Site Building in the northeast corner. Furthermore, street directories for years 1962, 1967, 1972, 1977/78, 1981/82, 1987, 1992, 1996/97, 2001/02, 2006/07 and 2011 reviewed as part of a previous investigation, did not indicate any issues of potential environmental concern for the Site or surrounding properties. As such, street directories for the Site and surrounding lands were not updated as they would not likely provide any further relevant information related to issues of potential environmental concern.

3.1.6 Previous Reports

Golder previously completed the review of following reports related to the Site and Phase One Study Area to develop an understanding of any issues previously identified for the Site and surrounding properties.

- **"2016 Phase One ESA",** Phase I Environmental Site Assessment, Nicolls Island Road, Parcel A, Riverside South, Ottawa, Ontario, dated June 2016, prepared by Golder for the Regional Group.

2016 Phase One ESA

The 2016 Phase I ESA, which included the entire Site except for the 788 River Road parcel in the northeast corner of the Site, consisted of undeveloped lands (PIN 045891862) with no municipal address (the "2016 ESA Property"). This assessment was completed in accordance with Ontario Regulation (O.Reg.) 153/04, for the purpose of development application for residential sub-division. Based on the review of this report, following noteworthy information associated with Site were available:

- The 2016 ESA Property consisted of a 4.5-hectare undeveloped land with no buildings or structures present. Mr. Dave Wright of Dave Wright Holding Corporation (the former owner) indicated the 2016 Phase One ESA Property was always used for farming and no operations other than agricultural activities have been carried out.
- Review of city directories indicated residential land use on the northeast portion of the Site at 788 River Road. Surrounding land uses also included residential homes except for a commercial activity (Friends in Sport-fishing) on 415 Nicolls Island Road, located adjacent west of the 2016 ESA Property (across Nicolls Island Road).

- Based on the potential presence of various Threatened (THR) and/or Endangered (END) species, a Natural Environment Constraints Analysis was completed to identify significant natural features and SAR that have been reported as occurring, or potentially occurring in the local landscape. The forested valley portion of the Site may have design/approval constraints associated with endangered bat habitat, significant woodland and fish habitat. This area of the Site would warrant additional investigation and design/mitigation. Additionally, site drainage and habitat for several species of concern are likely to be issues that can be mitigated with site design considerations.
- No evidence of presence of aboveground Storage Tanks (ASTs), underground Storage Tanks (USTs), chemical storage drums were indicated.
- No potentially contaminating activities (PCAs) have been carried out at the Phase One ESA Study Area. As such, no areas of potential environmental concern (APECs) were identified. As such, no further investigation associated with soil and groundwater quality was recommended be carried out.

3.2 Environmental Source Information

3.2.1 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 A.

The databases searched included the following:

Federal	Provincial	Private
▪ Contaminated Sites on Federal Land ▪ Environmental Effects Monitoring ▪ Environmental Issues Inventory System ▪ Federal Convictions ▪ Fisheries & Oceans Fuel Storage Tanks ▪ Greenhouse Gas Emissions from Large Facilities ▪ 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 Energy Board Pipeline Incidents ▪ National Energy Board Wells	▪ Abandoned Aggregate Inventory ▪ Abandoned Mine Information System ▪ Aggregate Inventory ▪ Borehole ▪ Certificates of Approval ▪ Certificates of Property Use ▪ Commercial Fuel Oil Tanks ▪ Compliance and Convictions ▪ Drill Hole Database ▪ Emergency Management Historical Event ▪ 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	▪ Anderson's Storage Tanks ▪ Anderson's Waste Disposal Sites ▪ Automobile Wrecking & Supplies ▪ Canadian Mine Locations ▪ Canadian Pulp and Paper ▪ Chemical Register ▪ Compressed Natural Gas Stations ▪ ERIS Historical Searches ▪ Oil and Gas Wells ▪ Retail Fuel Storage Tanks ▪ Scott's Manufacturing Directory

Federal	Provincial	Private
▪ National Environmental Emergencies System (NEES) ▪ National PCB Inventory ▪ National Pollutant Release Inventory ▪ Parks Canada Fuel Storage Tanks ▪ Transport Canada Fuel Storage Tanks	▪ 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 ▪ 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 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 a record under the Water Well Information System (WWIS) for a domestic water supply well completed in 1973, located on the southeast corner of the Site (likely associated with the residential home located immediately southeast of the Site. Two other well records (completed in 2009) for domestic water supply were located on the southwest portion of the Site. No other records in the selected databases (listed above) were available with respect to the Site.

Surrounding Properties within 250 metres of the Site

The EcoLog ERIS report identified various records with respect the surrounding properties to the Site within Phase One Study Area. Based on the review of the EcoLog ERIS report, the noteworthy findings are discussed below:

- Boreholes (BORE) – There were eight BORE records with depths of 15.2 meters below ground surface (mbgs) to 30.5 mbgs. Details of borehole construction are available in the ERIS report.
- Ontario Regulation 347 Waste Generator Summary (GEN): Two GEN records of waste generators were located northwest and southwest of the Site, within the RCMP Campground facility under
  - SNC Lavalin O&M (under generator #ON5344940) for paint, pigment and coating residues (145) and alkaline wastes-other metals (122) in 2014; and,
  - RCMP (under generator #ON3014023) for acid waste- heavy metals (112) in 2011.
- Pesticide Register (PES): A single record register under PJW Van Syl and Sons Ltd. as an operator at 805 River Road, approximately 200 m southeast of the Site.
- Water Well Information System (WWIS): There were 19 records on WWIS drilled and/or abandoned between 1957 to 2017, and, were primarily used for water supply (domestic and public). Construction details of these wells are available in the ERIS report.

Based on the available information reviewed from ERIS report, potentially contaminating activities that may result in an APEC at the Site were not identified within the Phase One Study Area.

3.2.2 Ontario Ministry of Environment, Conservation and Parks

The Ottawa district office of the Ontario Ministry of Environment, Conservation and Parks (MECP) was contacted (refer to copy of correspondence in Appendix B) 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.

At the time of writing this report, no response had been received from MECP. If a response is received within 12 months of request submittal, Golder will review the response and advise of any noteworthy findings. A response from MECP with regards to similar request made as part of the 2016 Phase I ESA indicated that no Active Orders, Certificates of Approval or Environmental Compliance Approvals (the new name for Certificate of Approval) were associated with the Site.

3.2.3 City of Ottawa

Golder completed a review of the City of Ottawa records including the HLUI (Historical Land Use Inventory) for the Site and surrounding area. No records were identified in the City of Ottawa HLUI.

3.2.4 Technical Standards & Safety Authority, Fuels Safety Division

The Technical Standards & Safety Authority (“TSSA”) Fuels Safety Division maintains records related to registered fuel storage tanks and other petroleum-related infrastructure. The TSSA was contacted on May 9, 2019 to identify whether any active, decommissioned, or in-service storage tanks were present on the Site, and to search for outstanding instructions, incident reports, spills, or contamination records.

Based on the response from TSSA received on May 9, 2019, it was indicated that no records in their database of any fuel storage tanks at the Site and surrounding properties.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs of the Site and vicinity were obtained from the National Air Photo Library (Natural Resources Canada) for the years 1936 and 1984 and reviewed by Golder. In addition, the aerial photographs for 1976, 1991, 2002, 2011 and 2017 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 aerial photographs from 1936 and 1984 are included in Appendix C.

Information obtained from the review of the aerial photographs is summarized in the following table:

Year	Site	Surrounding Area
1936	The Site is undeveloped and apparently used for agricultural purposes, with no buildings or structures present.	**North:** Undeveloped forested lands followed by undeveloped agricultural lands. **East:** Bounded by River Road followed by primarily undeveloped agricultural lands and a building, likely for residential purposes. **South:** Undeveloped agricultural lands. **West:** Undeveloped lands, likely used for agricultural purposes, followed by Rideau River.
1976	The Site appears primarily unchanged compared to 1936 aerial image, except for a residential building located on the northeast portion of the Site. Also, dense tree cover appears on the northern portion of the Site.	**North:** Similar to 1936 aerial photo except for a residential building that appears adjacent northeast of the Site. **East:** Several residential buildings appear southeast of the Site, along River Road. **South:** Similar to 1936 aerial photo. **West:** Small building structures appear southwest of the Site, likely associated with campground use.
1984	No major changes compared to 1976 aerial.	**North:** No major changes compared to 1976 aerial photo. **East:** Similar to 1976 aerial photo. **South:** No major changes compared to 1976 aerial photo except for additional building structures, likely used as residential homes, along both sides of River Road. **West:** Enhanced developments along the Rideau River with buildings northwest of the Site and fields/play-grounds located adjacent to the Site.
1991	No major changes compared to 1984 aerial.	**North, East, South and West:** No major changes compared to 1984 aerial photo except that additional buildings appear southeast of the Site (along River Road).

Year	Site	Surrounding Area
2002	No major changes compared to 1991 aerial.	**North, East, South and West:** No major changes compared to 1991 aerial photo.
2011	No major changes compared to 2002 aerial.	**North, East, South and West:** No major changes compared to 2002 aerial photo.
2017	No major changes compared to 2011 aerial.	**North, East, South and West:** No major changes compared to 2011 aerial photo.

Based on the review of the earliest available aerial image from 1936, the Site was undeveloped with no buildings or structures and appeared to be used as agricultural lands. Review of subsequent aerial photographs indicate no major changes at the Site except for construction of a residential building prior to 1976 on the northeast corner of the Site. Remaining portions of the Site have remained primarily unchanged except for varying vegetation cover.

Surrounding properties to the north appeared undeveloped with forested or agricultural lands in the 1936 aerial image, and primarily remained unchanged till present day except for a residential home which was constructed adjacent to the northeast of the Site. Lands located east (across River Road) and south were primarily undeveloped in 1936 except for a building structure (likely associated with farming activities) east of the Site; however, residential developments appeared on both sides of River Road through 1960s to 1980s according to subsequent aerial photographs. Lands to the west was developed with the RCMP campground prior to 1976and appears to have been used for similar activities to the present day.

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 6.

Topic	Conditions	Comment / Source
Topography of Site and Surrounding Area	The topography of the Site and surrounding area is generally sloped west towards Rideau River (located approximately 100 m west of the Site). The Site topography was generally flat on the central and southern portion; however, the eastern portion of the Site was located at a higher elevation compared to the remaining areas of the Site. The Site was located at a lower elevation compared to River Road (located east of the Site) and at a higher elevation compared to the ravine on the northern portion of the Site.	Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance
Overburden Soils	Off-shore Marine Deposits with clay, silty clay and silt for majority of the Site. A small portion along the west perimeter of the Site consists of clay and silt underlying erosional terraces.	Bélanger, J. R. 2008 Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311, 1 DVD.

Topic	Conditions	Comment / Source
Type of Bedrock	Oxford Formation with sublithographic to fine crystalline dolostone.	Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 219
Depth to Bedrock	10 to 15 m below the ground surface (mbgs) in majority of the Site and 5 to 10 mbgs along the western part of the Site.	2010 Bélanger, J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open File D3256, 2001
Inferred Near Surface Groundwater Flow	Regional groundwater flow is expected to be west towards the Rideau River which is located approximately 100 m west of the Site. However, a ravine located at a lower elevation immediately north of the Site may influence local groundwater flow.	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 appears to be flat except for a slope located on the eastern portion. Overall, the Site follows the topography of the area with a slope to the west towards the Rideau River. A steep slope down towards the ravine was observed on the northern portion of the Site.	Site and surrounding area observations and Figure 3 – Topographic Map and Areas of Natural Significance
Depth to Groundwater	Not identified. However, based on a monitoring well located south of the Site as indicated in the 2016 Phase I ESA, the groundwater level is 4 mbgs.	2016 Phase I ESA

It should be noted that local groundwater flow may be influenced by the presence of large wetland immediately north of the Site and 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 at the time of the Site visit. The Site Representative indicated that no fill materials were placed or brought to the Site.	Site observations and Site Representative

3.3.4 Water Bodies and Areas of Natural Significance

Topic	Conditions	Comment / Source
Nearest Open Water Body	The nearest permanent watercourse is the Rideau River located approximately 100 m west of the Site; however, a ravine located immediately north of the Site appears to have seasonal water flow.	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. However, part of a wetland is located on the northern portion of the Site. The 2016 Phase I ESA indicated that Natural Heritage features, Species at Risk and Species of Special Concern have been identified by the MNRF to be potentially present on the Site or on the nearby lands. Also, a natural environment study completed for the Site by Golder in 2015 indicated that the forested valley portion of the Site (along the north boundary) may have endangered bat habitat, significant woodland and fish habitat.	Figure 3 (Topographic Map and Areas of Natural Significance); 2016 Phase I ESA

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)	A water well for domestic water supply, located adjacent to the south of the Site Building, was observed at the time of the Site visit. ERIS report indicated an on-Site well which was located on the southeast portion of the Site and was likely associated with adjacent residential home at 792 River Road, located immediately southeast of the Site. ERIS also indicated two other well records (completed in 2009) for domestic water supply were located on the southwest portion of the Site.	Site observations, ERIS Report
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 ERIS report, 19 wells records are located within the Phase One Study Area. It was indicated that the wells were completed mainly for domestic or public water supply. Details regarding construction of the wells are provided in the ERIS report included in Appendix A.	Site observations; ERIS Report

3.4 Site Operating Records

At the time of the Site visit, the Site was primarily undeveloped and with one residential building located on the northeast corner of the Site. As such, no Site operating records were provided to Golder for review.

4.0 INTERVIEWS

Golder conducted an interview with Ms. Diane Gariepy (current owner of the residential parcel of land at #788 River Road) and Ms. Taylor Marquis of The Regional Group (hereinafter referred to as the "Site Representatives"), on May 9, 2019 to discuss information about the historical and current activities carried out on the Site.

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

5.0 SITE RECONNAISSANCE

5.1 General Requirements

Mr. Shihan Chowdhury, EIT (the "Site Assessor") visited the Site on May 9, 2019 with Ms. Marquis of the Regional Group and walked through and observed accessible areas of the exterior of the Site, observed surrounding properties, and photographed representative Site features (Appendix D). The weather conditions were cloudy and the temperature was approximately 10°C. The Site Assessor was accompanied by the Site Representatives at the time of the interior walk through of the residential building.

The Site consisted primarily of undeveloped vacant land (formerly used for agricultural purposes) with tree coverage along west and northern portions of the Site. A residential building was located on the northeast corner of the Site (#788 River Road). The following sections summarize the Site Assessor's observations and information provided by the Site Representatives.

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

5.2 Specific Observations

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

Topic	Observations	Source
Structures **Number, Age and General Description of Buildings on the Site**	A single-family residence, reportedly constructed in the 1960s, was located on the northeast corner of the Site	Site observations and aerial photographs
Building Areas	Approximately 253 m^2 (calculated from Google Earth)	Site observations
Number of Floors (include all levels, whether above or below ground)	Two floors (including basement)	Site observations
Number, Age, and Depth of Levels Below Ground Level	One basement level original to the construction of the building	Site observations

Topic	Observations	Source
Number and Details of all Aboveground Storage Tanks (ASTs)	Fill/vent pipes extending through ground surface was observed to the northeast of the Site Building; however, are considered to be associated with USTs (discussed below). 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. Based on the development of the surrounding lands and residential homes, it is likely that current or former fuel or chemical ASTs are present on the adjacent and surrounding properties to the Site.	Site observations and Site Representative
Number and Details of all Underground Storage Tanks (USTs)	A set of fill/vent pipes extending through ground surface was observed northeast of the Site Building, located adjacent to the furnace room in the basement of the Site Building. Furthermore, two copper feeder pipes (believed to have connected the UST to the furnace unit) were observed in the furnace room of the Site Building. One of the Site Representatives indicated that use of furnace oil tank may have been used for heating of the Site Building historically, prior to their stay at the residence (since early 2000s). Natural gas is currently used for the heating system.	Site observations and Site Representative
Polychlorinated Biphenyls (PCB) Containing Materials and Equipment	No evidence was observed during the Site visit to indicate the current or former presence of PCB containing materials or equipment; however, a pole mounted transformer was observed immediately east of the Site Building (along River Road). No evidence of spills or leaks was noted in the vicinity of this transformer and it could not be confirmed whether this transformer was PCB-containing.	Site observations
Asbestos-Containing Materials (ACMs)	The Site Representative was not aware of presence of any ACMs associated with the Site Building. However, based on the age of the Site Building, it is likely that ACM may be present in building materials.	Site observations and Site Representative
Lead-Based Paints (LBPs)	The Site Representative indicated that the Site Building had been re-painted after early 2000s. All paints and surface coatings appeared to be in good condition, with no flaking and peeling paint observed at the time of the Site visit.	Site observations and Site Representative

Topic	Observations	Source
Underground Utilities **Potable and Non-Potable Water Sources**	The Site is not connected to municipal water supply. A water well, located south of the Site Building, provides domestic water supply.	Site observations and Site Representative
Utility Lines Present (i.e. Electrical, Natural Gas, other)	There is natural gas connection available on-Site.	Site observations and Site Representative
Sanitary/Process Wastewater Receptor	No process wastewater is generated on-Site.	Site observations and Site Representative
Sanitary Sewer Connection	No municipal sanitary sewer connections service the Site.	Site observations and Site Representative
Septic Systems	A septic system in present on-Site with the septic tank located west of the Site Building.	Site observations and Site Representative
Storm Water Flow	Natural soil infiltration.	Site observations and Site Representative
Storm Sewer Connection	None observed.	Site observations and Site Representative
Interior of Structures **Entry and Exit Points for Site Buildings**	Two entry-exit points were observed on the south and east elevation of the Site Building.	Site observations
Existing and Former Heating System(s) (include fuel type / source)	Existing heating systems observed were connected to natural-gas connections; however, one of the Site Representatives indicated historical presence of furnace oil storage tanks. In addition, fill/vent pipes as well as copper feeder pipes were located indicating potential former and/or current presence of furnace oil UST.	Site observations
Existing and Former Cooling System(s) (include fuel type / source)	Natural gas fired heating, ventilation and air-conditioning system.	Site observations
Drains, Pits, and Sumps (include current use, if any, and former use)	A sump pit was observed in the basement furnace room of the Site Building; however, it was dry and no evidence of stain or leaks in the vicinity was observed.	Site observations
Unidentified Substances	None identified.	Site observations
Floor Stains or Corrosion Located near a Potential Discharge Location	None identified.	Site observations

Topic	Observations	Source
<u>Miscellaneous Exterior</u> Location of any Current and Former Wells	A private well, associated with domestic water supply, was observed adjacent southwest of the Site Building. The ERIS report indicated an on-Site well which was located on the southeast portion of the Site; however, is likely associated with adjacent residential home at 792 River Road, located immediately southeast of the Site. Furthermore, the ERIS report indicated 19 off-Site well records for domestic or public water supply purposes.	Site observations, Site Representative, ERIS Report
Ground Cover (i.e., grass, gravel, soil, or pavement, etc.)	The area around the house primarily consisted of grass-covered vegetation except for a gravel covered driveway in the southeast corner of the residential parcel providing access off River Road.	Site observations
Current or Former Railway Lines or Spurs	None present on-Site or within Phase One Study Area.	Site observations.
Presence of Stained Soil, Vegetation, or Pavement	None observed at the time of the Site visit.	Site observations
Presence of Stressed Vegetation	None observed at the time of the Site visit.	Site observations
Areas Where Fill and/or Debris Materials Appear to Have Been Placed	None observed. It was also indicated by the Site Representative that no fill materials were placed or stored at the Site.	Site observations, Site Representative
Potentially Contaminating Activity	Potential presence of former and/or current furnace oil UST located immediately northeast of the Site Building.	Site observations
Unidentified Substances	None identified.	Site observations

5.2.1 Enhanced Investigation Property

The Site is predominantly comprised of undeveloped vacant land except for a residential building on the northeast corner of the Phase One Property. Based on aerial photographs reviewed and other available information, the Site has been undeveloped used for agricultural purposes since 1936, with a residential home since the 1960s. As such, the Site is not considered to be an enhanced investigation property as defined by O. Reg. 153/04.

5.3 Surrounding Land Use

Golder observed the neighbouring properties from publicly accessible areas and from the Site.

The properties surrounding the Site includes undeveloped, residential and commercial land uses.

The Site Assessor made the following observations of neighbouring properties:

West (inferred to be hydraulically down-gradient of the Site): A large area occupied by the RCMP Campground followed by the Rideau River.

North (inferred cross-gradient): Undeveloped forested wetlands and a residential home at 782 River Road, located immediately northeast of the Site.

South (inferred cross -gradient): Vacant agricultural land occupying a majority area except for a residential home southeast of the Site (along River Road).

East (inferred up-gradient): Bounded by River Road followed by residential houses and agricultural lands.

5.4 Written Description of Investigation

At the time of the site visit, the Site consisted of an irregular shaped parcel occupied primarily by undeveloped land (formerly used for agricultural activities) with no associated buildings or structures, except for a single family residence located on the northeast corner of the Site (#788 River Road). The Site is bounded by a residential building and forested lands to the north; River Road followed by residential houses and agricultural lands to the east; vacant land to the south; and, the Royal Canadian Mounted Police (RCMP) Campground followed by the Rideau River to the west.

The Site Building, reportedly constructed in 1960s, included vent and fill pipes going into the ground along the northeast elevation of the building and were located adjacent to the furnace room in the basement. Two copper feeder pipes, known to supply furnace oil from associated USTs, were observed along the interior wall of the furnace room (adjacent to the vent and fill pipes). Furthermore, one of the Site Representative indicated that the building previously used furnace oil for heating purposes; however, natural gas has been used for the furnace since the current owners acquired the residential property in the early 2000s. The presence or location of former UST associated with heating of the Site Building could not be confirmed at the time of the Site. As such, presence of former and/or current furnace oil UST is considered a PCA that will result in an APEC for the Site.

The remaining portion of the Site consisted of vacant lands, formerly used for agricultural purposes with tree coverage along the north and west perimeters of the Site. Furthermore, a designated area of archaeological importance (Cultural Heritage Value or Interest), was observed on the southwest portion of the Site. This area is reportedly to undergo a Stage 4 archeological investigation according to a Golder investigation reported under separate cover.

A ditch was observed extending from central portion of the Site to the northeast corner, where it discharges into the ravine flowing along the northern Site boundary. A steep slope going down to this ravine was observed along the northern Site boundary. The overall slope of the Site is downwards to the west, towards the Rideau River located approximately 100 m west of the Site. No evidence of stressed vegetation or stains were observed at the time of the Site visit. No evidence of fill materials at the Site were observed or reported by the Site Representative.

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 1960s	Unknown	Undeveloped	Agricultural or other use	According earliest available aerial image from 1936, the Site was undeveloped and likely used for agricultural purposes with no buildings or structures present on-Site.
1960s to Early 2000s	Unknown	Undeveloped/ Vacant; Residential in NE corner	Agricultural or other use; Residential	Aerial images indicate that Site remained undeveloped and likely used for agricultural purposes, except for construction of a residential building on the northeast portion (sometime in 1960s).
Early 2000s to Present	Diane Gariepy for 788 River Road; Wright Lands (till 2014) followed by Regional Group (from 2015 till present)	Undeveloped/ Vacant; Residential	Agricultural or other use; Residential	According to aerials images from 2002, 2009, and 2017, the Site has been primarily occupied by undeveloped lands and a residential home on the northeast portion of the Site visit, as seen at the time of the Site visit.

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) and may trigger a Phase Two ESA. Based on the information obtained as part of this Phase One ESA, the following PCAs were identified.

Location	PCA	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Property	**#28. Gasoline and Associated Products Storage in Fixed Tanks** – Evidence of vent/fill pipes as well as copper feeder lines indicate presence of former and/or current furnace oil UST, associated with home heating, located immediately north east of the Site Building. (PCA 1)	Site observations, Site Representative	The PCA is located on-Site. No additional information was available on the size, condition and/or current status of the fuel storage tank. As such, it is considered to result in an APEC on the northeast portion of the Site.

Location	PCA	Information Source	Rationale for Potential Contribution of the PCA to an APEC
Phase One Study Area	**#18. Electricity Generation, Transformation and Power Stations**– A pole-mounted transformer was located immediately east of the Site Building (along River Road). (PCA 2)	Site observations	Based on the absence of spill records, along with no evidence of stains or leaks on the ground in the vicinity of the pole mounted transformer, this PCA is not considered to result in an APEC for the Site.

6.3 Areas of Potential Environmental Concern

Based on the information available, the following table summarizes the PCAs considered to have resulted in an APEC on the Phase One Property

PCA and APEC	Location of APEC at the Site	Potentially Contaminating Activity (PCA)	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or Sediment)
1. Former and/or current presence of furnace oil UST adjacent northeast of the Site Building (APEC 1)	Northeast portion of the Site near the residence	#28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs F1-F4, BTEX	Soil and Groundwater

6.4 Conceptual Site Model

A Conceptual Site Model of the Phase One Study Area (as required by O.Reg. 153/04) is presented below supplemented by several Figures (Figure 1: Key Plan, Figure 2: Site Plan, Figure 3: Topographic Map and Areas of Natural Significance).

The combined set of figures shows:

- Existing buildings and structures (if present);
- Water bodies and Areas of Natural Significance (if present) located in the Phase One Study Area;
- Roads (including names) within the Phase One Study Area; and,
- Uses of properties adjacent to the Phase One Property.

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:

- The Site, occupying an area of approximately 5.8 hectares (calculated using Google Earth), consisted primarily of undeveloped land with agricultural activities and no associated buildings or structures except for a single family residence located on the northeast corner of the Site (#788 River Road the “Site Building”).
- The Site is bounded by a residential building and forested lands to the north; River Road followed by residential houses and agricultural lands to the east; vacant agricultural land to the south; and, a campground followed by the Rideau River to the west.
- A water well, for domestic water supply purposes, was observed adjacent to the south of the Site Building at the time of the Site visit. ERIS report indicated an on-Site well which was located on the southeast portion of the Site and was likely associated with adjacent residential home at 792 River Road, located immediately southeast of the Site. ERIS also indicated two other well records (both completed in 2009) for domestic water supply were located on the southwest portion of the Site. ERIS report also 19 wells records located in the Phase I Study Area which were used mainly for domestic or public water supply.
- The nearest water body is the Rideau River located approximately 100 m west of the Site; however, a wetland area with ravine was observed immediately north of the Site; Regional groundwater is anticipated to flow west towards the Rideau River; however, local groundwater flow may be influenced by the presence of an large wetland with a ravine located immediately north of the Site. A ditch observed from the central portion of the Site to the northeast corner may influence surface run-off and shallow groundwater at the Site;
- The subsurface conditions at the Site consists of a thin layer of surficial silty sand underlain by a deposit of stiff weathered silty clay underlain by glacial till. The bedrock at the Site is Oxford formation dolostone, and the depth to the bedrock is expected to be between 5 and 15 m. The groundwater level measured at one borehole location on the Site in 2007 as part of the as part of the Master Servicing Study for the Riverside South Community was 4 mbgs;
- No areas of natural and scientific interest (ANSI) are known to be located on the Site or on the Phase One Study Area as response from MNRF was not received. However, Natural Heritage features, Species at Risk and Species of Special Concern were identified by the MNRF to be potentially present on the Site or on the nearby lands as part of a previous investigation. Also, a natural environment study completed for the Site by Golder (under a separate cover in 2015) identified that the forested valley portion of the Site may have endangered bat habitat, significant woodland and fish habitat;
- The roads located within the Phase One Study Area at the time of the Site visit were River Road and Nicolls Island Road;
- Based on observations during the Site visit and information reviewed as part of this Phase One ESA, two PCAs were identified in the Phase One Study Area, one located off-Site and the other on-Site in the vicinity of the residential building in the northeast portion for the Site. Based on site characteristics and the locations of the off-Site PCA, a total of one (1) Area of Potential Environmental Concern (APEC) was identified for the Phase One Property related to the on-Site PCA.

6.4.1 Uncertainty and Absence of Information

At the time of preparation of this report, Golder did not receive responses from MECP with regards to requested information. However, based on the body of information acquired and review of previous MECP responses for the Site, it is considered that the absence of this information should not likely affect the conclusion of the Phase One ESA. 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

Based on the information obtained as part of this Phase One ESA, two Potentially Contaminating Activities (PCAs) were identified in the Phase One Study Area, one of which was on the Phase One Property. Based on site characteristics and the locations of the off-Site PCA, a total of one (1) Area of Potential Environmental Concern (APEC) was identified for the Phase One Property. . A Phase Two ESA is recommended to investigate soil and groundwater quality on the northeast portion of the Site near the residence to evaluate potential impact related to a furnace oil underground storage tank.

8.0 REFERENCES

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

Source	Date
Previous Environmental Reports (refer to Section 3.1.6)	December, 2015
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)	1936 and 1984
Aerial Photograph Images – geoOttawa (http://maps.ottawa.ca/geoOttawa/)	1976, 1991, 2002, 2011 and 2017
Ontario Ministry of the Environment, Conservation and Parks	Pending response
Technical Standards and Safety Authority	May 9, 2019

9.0 LIMITATIONS AND USE OF REPORT

This report (the "Report") was prepared for the exclusive use of Nicolls Island Holdings Inc. This report is intended to provide an assessment of the potential environmental conditions of the property located at the south end of Riverside South, west of River Road and north of Nicolls Island Road in Ottawa, Ontario, identified with property identification number (PIN) of 045891862, 045891862 and part of 045890405. The Report summarizes Golder's review of available data in accordance with the principal components of CSA Z768-01 *Phase I Environmental Site Assessment,* as well as Ontario Regulation 153/04 *Records of Site Condition*, as amended (RSC Regulations). The Report is based on data and information collected at the time of this Assessment, and, must be considered in its entirety. It is based solely on the conditions on the Site encountered at the time of the site visit on May 9, 2019, as reported herein. Except as otherwise may be requested, Golder disclaims any obligation to update this Report for events taking place, or with respect to information that becomes available to Golder after the time during which Golder conducted the work. No soil, water, liquid, gas, product or chemical sampling and analytical testing other than that described herein at or in the vicinity of the Site was conducted as part of this Work.

In evaluating the property, Golder has relied in good faith on information provided by other individuals, companies or government agencies noted in the Report. Golder has assumed that the information provided is factual and accurate and Golder has not independently verified the accuracy or completeness of such information. Golder accepts 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. Golder makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to periodic amendment. In addition, regulatory statutes are subject to interpretation and these interpretations may change over time.

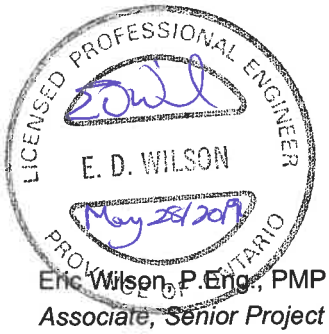
The scope and the period of Golder's assessment are described in this Report, and are subject to restrictions, assumptions and limitations.

Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site. Conditions may therefore exist which were not detected given the nature of the inquiry Golder was retained to undertake with respect to the Site. Accordingly, 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.

Any use which a third party makes of this Report, or any reliance on or decisions to be made based on it, are the sole responsibility of the third parties. Should additional parties require reliance on this Report, written authorization from Golder will be required. Golder disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

Signature Page

Golder Associates Ltd.



Shihan Chowdhury, EIT
Environmental Consultant

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

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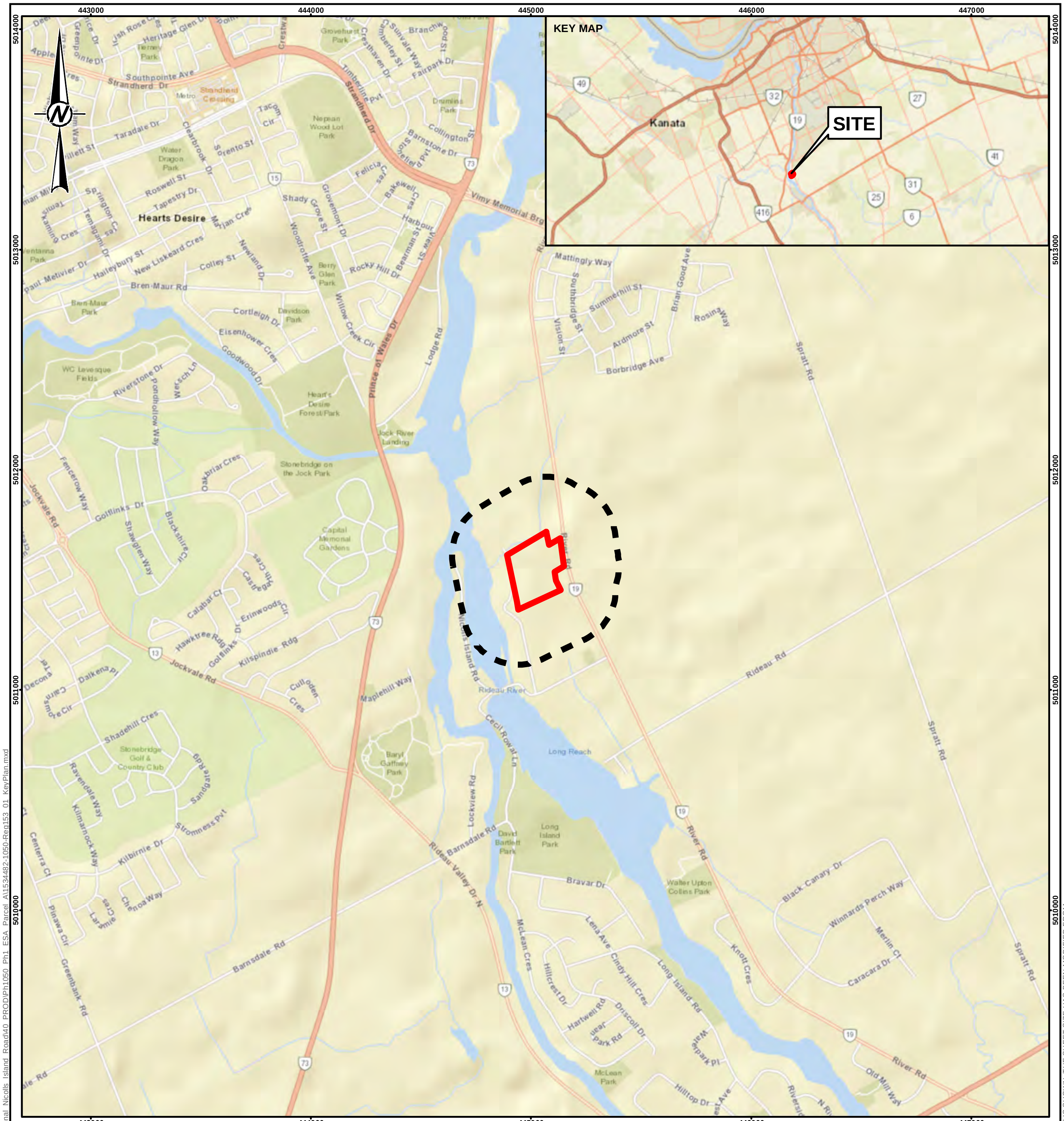

LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 250 500 1,000

1:25,000 METRES

REFERENCE(S)

1. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, DELORME, USGS, INTERMAP, INCREMENT P CORP., NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI (THAILAND), MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83 COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
KEY PLAN

CONSULTANT

GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

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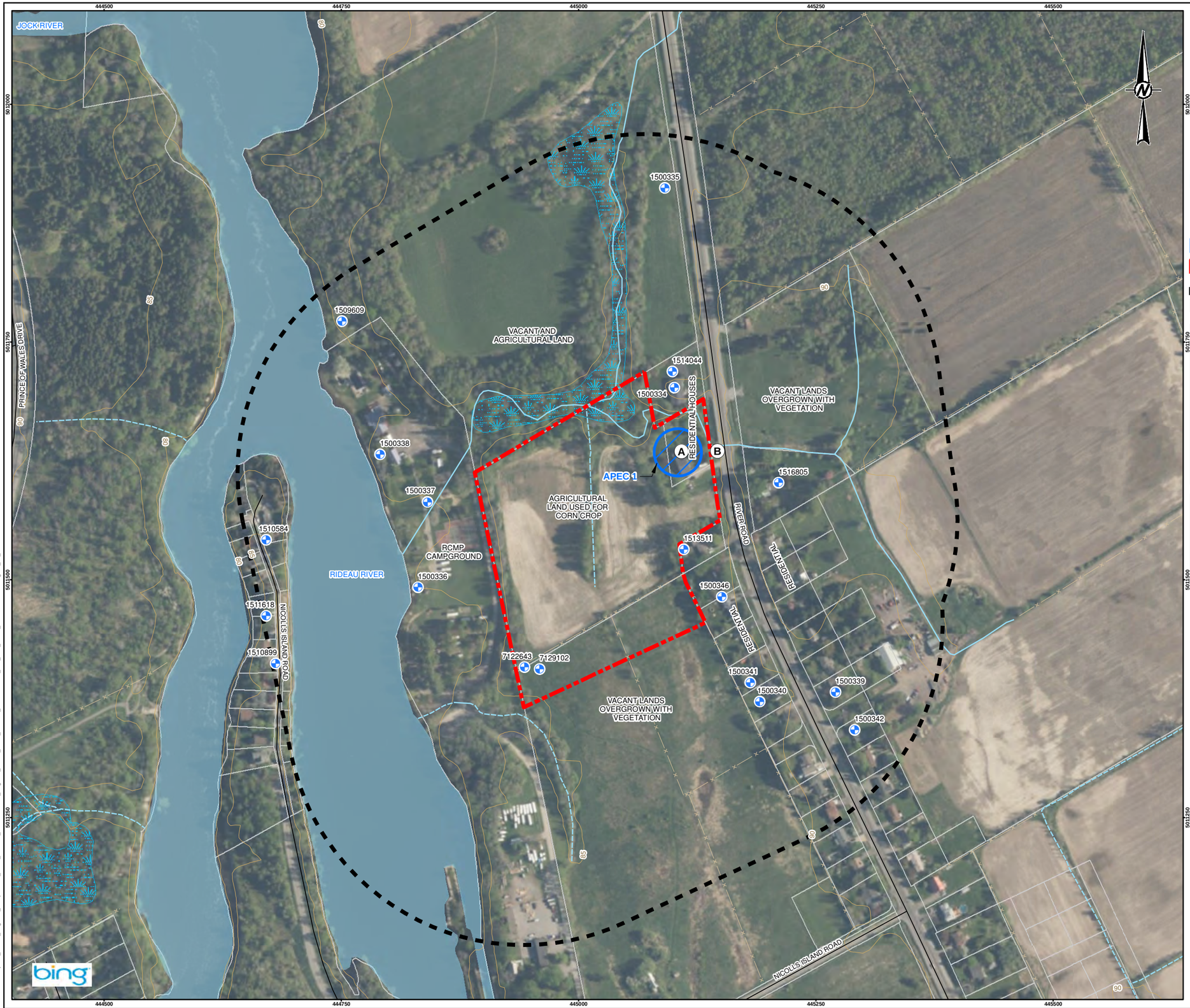

LEGEND

- MECP WWIS LOCATION
- APPROXIMATE PCA LOCATION
- FENCE
- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- TOPOGRAPHIC CONTOUR, ELEVATION IN METRES ABOVE SEA LEVEL
- WETLAND
- WATERBODY
- PROPERTY PARCEL
- APPROXIMATE LOCATION OF APEC 1
- PHASE ONE SITE
- PHASE ONE STUDY AREA

Potentially Contaminating Activities ("PCA")

Location	Detail	PCA#
A	Gasoline and Associated Products Storage in Fixed Tanks- Evidence of vent/fill pipes as well as copper feeder lines indicate presence of former and/or current furnace oil UST, associated with basement furnace room, located immediately north east of the Site Building.	28
B	Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications – Use of pesticides, associated with historical agricultural activities, across entire RSC Property (not indicated on Figure 1).	40
C	Transformer Manufacturing, Processing and Use - A pole-mounted transformer located adjacent east of the Site, along River Road (based on O.Reg 153/04 requirements).	55

Areas of Potential Environmental Concern ("APEC")

APEC#	Detail	PCA#
1	Gasoline and Associated Products Storage in Fixed Tanks- Former and/or current presence of furnace oil UST adjacent northeast of the Site Building	28

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. BING IMAGERY SUPPLIED BY ESRI AND MICROSOFT © 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS
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COORDINATE SYSTEM: UTM ZONE 18 VERTICAL DATUM: CGVD28

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CLIENT
THE REGIONAL GROUP

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
SITE PLAN

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
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PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

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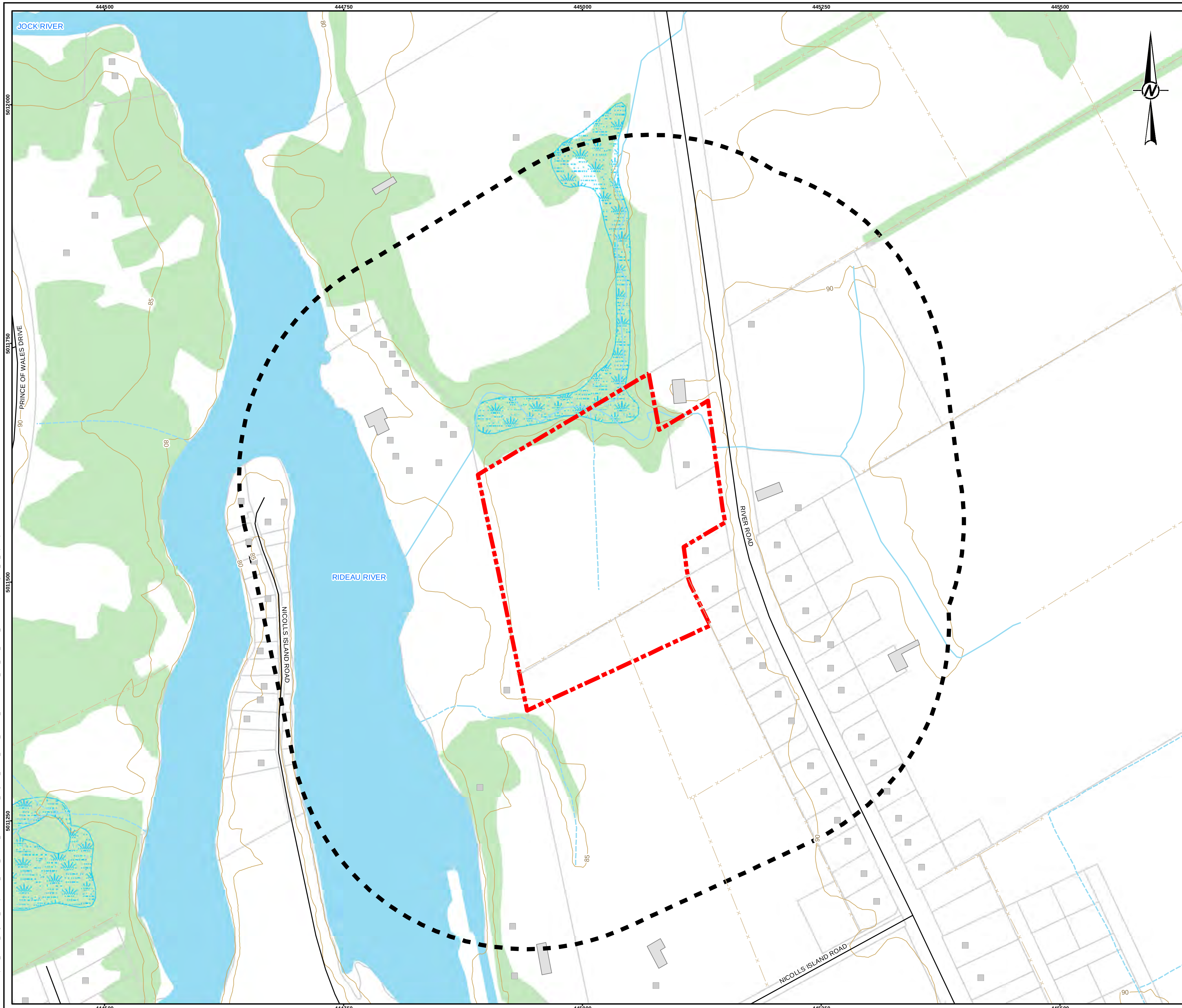

LEGEND

- BUILDING POINT
- FENCE
- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- TOPOGRAPHIC CONTOUR, ELEVATION IN METRES ABOVE SEA LEVEL
- WETLAND
- WATERBODY
- BUILDING FOOTPRINT
- PROPERTY PARCEL
- WOODED AREA
- PHASE ONE SITE
- PHASE ONE STUDY AREA

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

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CLIENT

THE REGIONAL GROUP OF COMPANIES INC.

PROJECT

O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE

TOPOGRAPHIC MAP AND AREAS OF NATURAL SIGNIFICANCE

CONSULTANT

GOLDER

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REVIEWED	SAC
APPROVED	EDW

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PRINCE OF WALES DRIVE

RIVER ROAD

NICOLLS ISLAND ROAD

3a 3 zz

LEGEND

- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- WETLAND
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- 3. OFFSHORE MARINE DEPOSITS: CLAY, SILTY CLAY & SILT
- 3a. OFFSHORE MARINE DEPOSITS: CLAY, SILT UNDERLYING EROSIONAL TERRACES
- zz. WATERBODY

REFERENCE(S)

1. BÉLANGER, J. R. 2008 URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE 5311, 1 DVD.
2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014

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THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
SURFICIAL GEOLOGY

CONSULTANT

GOLDER

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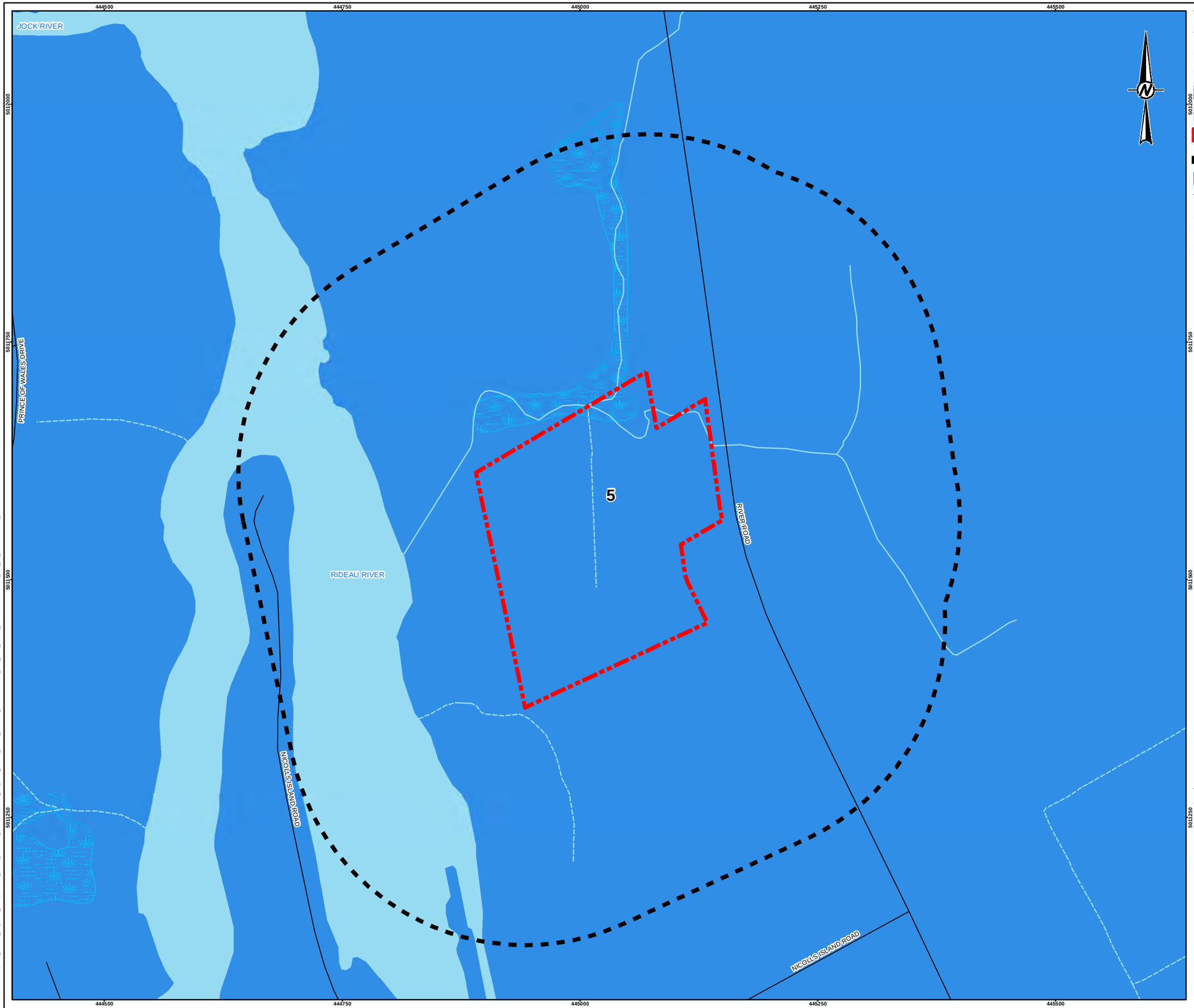

LEGEND

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

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
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CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
BEDROCK GEOLOGY

CONSULTANT
GOLDER

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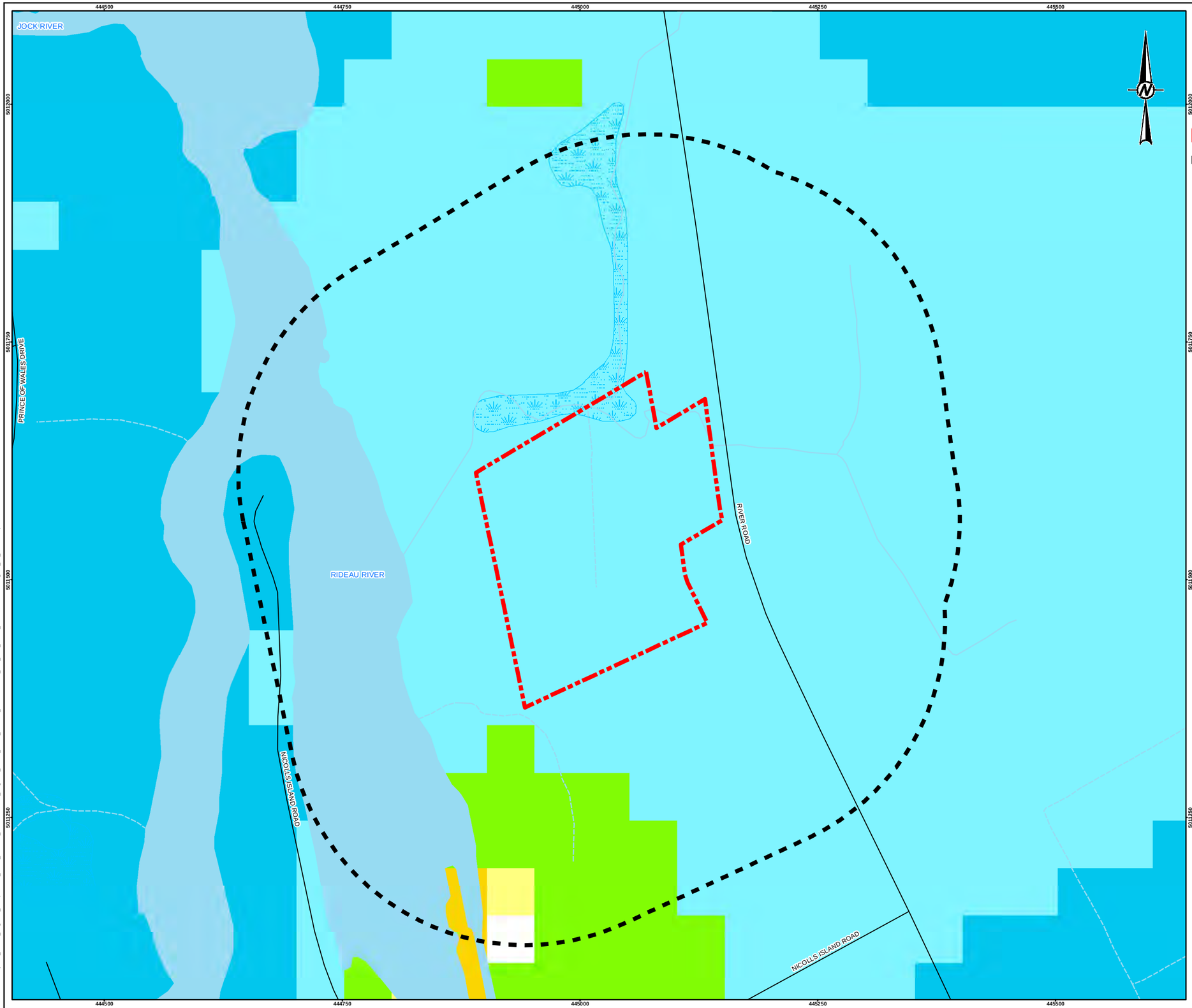

LEGEND

- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- WETLAND
- WATERBODY
- PHASE ONE SITE
- PHASE ONE STUDY AREA

TREND IN DEPTH TO BEDROCK (METRES)

- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- 10 to 15
- 15 to 25

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 40 80 160
1:4,000 METRES

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
TREND IN DEPTH TO BEDROCK

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1534482	1050	0	**6**

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

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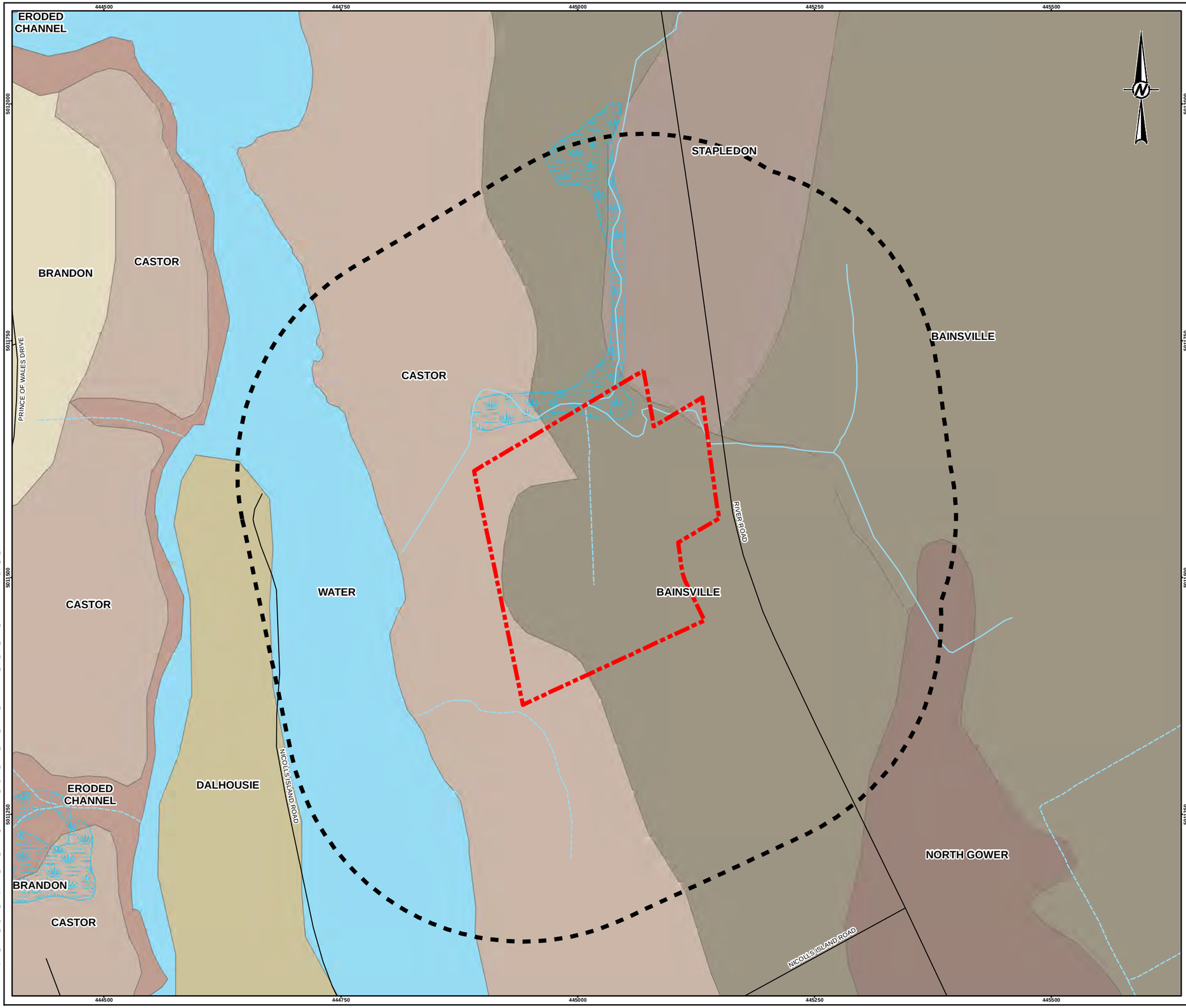

LEGEND

- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- WETLAND
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- WATER
- BAINSVILLE
- BRANDON
- CASTOR
- DALHOUSIE
- ERODED CHANNEL
- NORTH GOWER
- STAPLEDON

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 40 80 160

1:4,000 METRES

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
SOIL SURVEY COMPLEX (ONTARIO SOILS)

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1534482	1050	0	7

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

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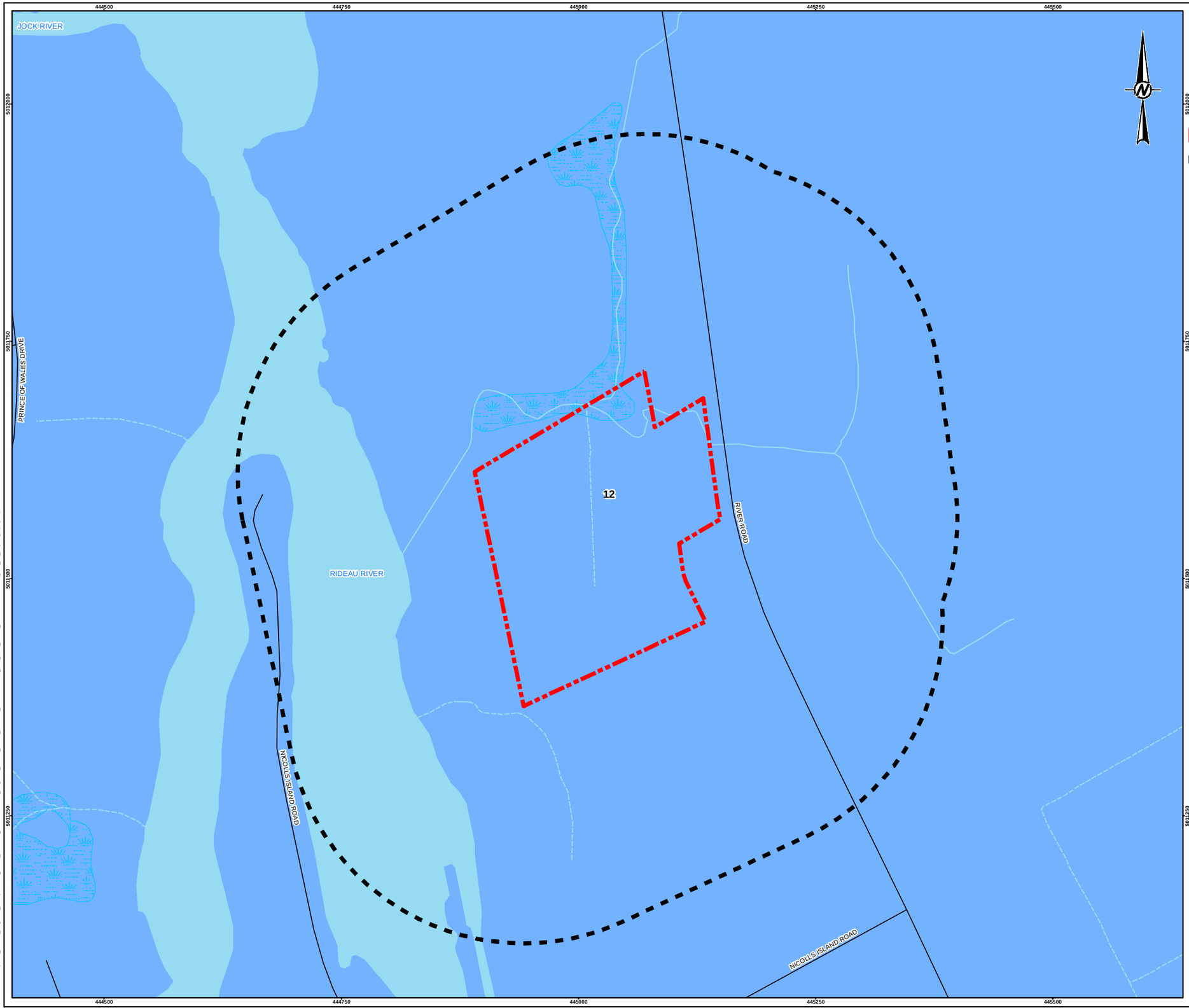

LEGEND

- ROADWAY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- WETLAND
- WATERBODY
- PHASE ONE SITE
- PHASE ONE STUDY AREA

PHYSIOGRAPHY DESCRIPTION

- 12: CLAY PLAINS

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 40 80 160
1:4,000 METRES

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
PHYSIOGRAPHY MAP

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

PROJECT NO.	PHASE	REV.	FIGURE
1534482	1050	0	**8**

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

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APPENDIX A

ERIS Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*1534482* *788 River Road* *Manotick ON K4M 0E2*
Project No:	*1534482*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20190509005*
Requested by:	*Golder Associates Ltd.*
Date Completed:	*May 15, 2019*

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

Table of Contents

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Executive Summary

Property Information:

Project Property:	*1534482* *788 River Road Manotick ON K4M 0E2*
Project No:	*1534482*

Order Information:

Order No:	*20190509005*
Date Requested:	*May 9, 2019*
Requested by:	*Golder Associates Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/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	8	8
CA	Certificates of Approval	Y	0	0	0
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	2	2
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of 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	2	2
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

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
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	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	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	1	20	21
	Total:		1	33	34

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 23 ON ***Well ID:*** 1513511	-/0.0	4.26	17

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		lot 23 con 1 MANOTICK ON **Well ID:** 7122643	SSW/8.0	-2.52	20
3	WWIS		lot 23 con 1 MANOTICK ON **Well ID:** 7129102	SSW/17.3	-2.52	25
4	BORE		ON	NNE/17.4	3.05	27
4	WWIS		lot 23 ON **Well ID:** 1500334	NNE/17.4	3.05	27
5	WWIS		lot 23 ON **Well ID:** 1514044	NNE/17.6	3.05	29
6	BORE		ON	SE/41.9	5.38	32
6	WWIS		lot 24 ON **Well ID:** 1500346	SE/41.9	5.38	33
7	GEN	SNC LAVALIN O&M	415 NICOLLS ISLAND ROAD MANOTICK ON K4M 1B2	SW/56.0	-4.76	35
8	WWIS		ON **Well ID:** 7287853	E/56.5	6.03	35
9	GEN	Royal Canadian Mounted Police	415 Nicolls Island Rd. Manotic ON K4M 1B2	W/57.9	-5.63	38
10	BORE		ON	W/60.6	-5.38	38
10	WWIS		lot 23 ON	W/60.6	-5.38	38

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1500337			
11	WWIS		lot 23 ON ***Well ID:*** 1516805	E/60.9	6.07	41
12	WWIS		MANOTICK ON ***Well ID:*** 7287916	ESE/64.9	6.03	44
13	WWIS		lot 23 ON ***Well ID:*** 1500336	WSW/86.9	-6.07	51
14	BORE		ON	WNW/108.7	-5.55	53
14	WWIS		lot 23 ON ***Well ID:*** 1500338	WNW/108.7	-5.55	54
15	EHS		3704 Prince of Wales Dr. Ottawa ON	NNE/118.4	4.28	57
16	EHS		Parcel A & B Ottawa ON	SSE/127.3	1.88	57
17	WWIS		lot 24 ON ***Well ID:*** 1500341	SE/133.3	5.58	58
18	WWIS		lot 24 ON ***Well ID:*** 1500340	SE/155.7	5.53	60
19	BORE		ON	NNE/188.1	4.40	63
19	WWIS		lot 23 ON ***Well ID:*** 1500335	NNE/188.1	4.40	63
20	BORE		ON	SE/198.1	6.35	66
20	WWIS		lot 24 ON	SE/198.1	6.35	66

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 1500339			
21	PES	P.J.W. VAN ZYL & SONS LTD	R R 1 805 RIVER RD MANOTICK ON K4M 1B2	SE/199.7	6.35	68
22	BORE		ON	NW/218.5	-4.66	69
22	WWIS		lot 22 ON ***Well ID:*** 1509609	NW/218.5	-4.66	69
23	WWIS		ON ***Well ID:*** 1510584	W/235.0	-4.44	72
24	WWIS		lot 24 ON ***Well ID:*** 1500342	SE/239.9	6.24	75
25	BORE		ON	WSW/249.1	-4.52	77
25	WWIS		ON ***Well ID:*** 1510899	WSW/249.1	-4.52	78
26	WWIS		lot 23 ON ***Well ID:*** 1511618	WSW/249.7	-4.54	81

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 8 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	17.4	4
	ON	41.9	6
	ON	60.6	10
	ON	108.7	14
	ON	188.1	19
	ON	198.1	20
	ON	218.5	22
	ON	249.1	25

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2019 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of

the project property.

Site	Address	Distance (m)	Map Key
	3704 Prince of Wales Dr. Ottawa ON	118.4	15
	Parcel A & B Ottawa ON	127.3	16

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Dec 31, 2018 has found that there are 2 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SNC LAVALIN O&M	415 NICOLLS ISLAND ROAD MANOTICK ON K4M 1B2	56.0	7
Royal Canadian Mounted Police	415 Nicolls Island Rd. Manotic ON K4M 1B2	57.9	9

PES - Pesticide Register

A search of the PES database, dated 1988-Sep 2018 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
P.J.W. VAN ZYL & SONS LTD	R R 1 805 RIVER RD MANOTICK ON K4M 1B2	199.7	21

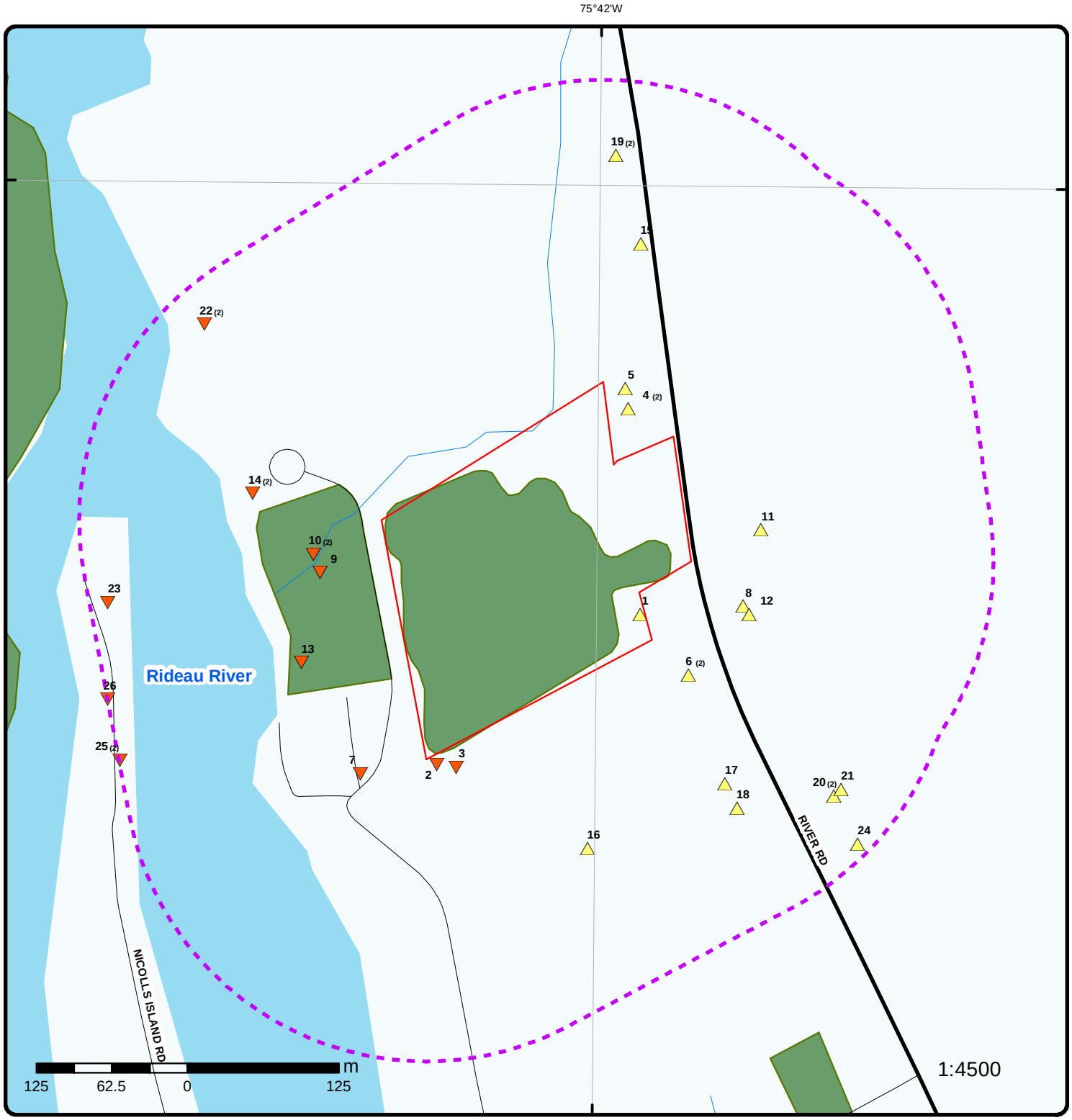
WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 21 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 23 ON ***Well ID:*** 1513511	0.0	1

Site	Address	Distance (m)	Map Key
	lot 23 con 1 MANOTICK ON ***Well ID:*** 7122643	8.0	2
	lot 23 con 1 MANOTICK ON ***Well ID:*** 7129102	17.3	3
	lot 23 ON ***Well ID:*** 1500334	17.4	4
	lot 23 ON ***Well ID:*** 1514044	17.6	5
	lot 24 ON ***Well ID:*** 1500346	41.9	6
	ON ***Well ID:*** 7287853	56.5	8
	lot 23 ON ***Well ID:*** 1500337	60.6	10
	lot 23 ON ***Well ID:*** 1516805	60.9	11
	MANOTICK ON ***Well ID:*** 7287916	64.9	12
	lot 23 ON ***Well ID:*** 1500336	86.9	13
	lot 23 ON ***Well ID:*** 1500338	108.7	14
	lot 24 ON	133.3	17

Site	Address	Distance (m)	Map Key
	Well ID: 1500341		
	lot 24 ON ***Well ID:*** 1500340	155.7	18
	lot 23 ON ***Well ID:*** 1500335	188.1	19
	lot 24 ON ***Well ID:*** 1500339	198.1	20
	lot 22 ON ***Well ID:*** 1509609	218.5	22
	ON ***Well ID:*** 1510584	235.0	23
	lot 24 ON ***Well ID:*** 1500342	239.9	24
	ON ***Well ID:*** 1510899	249.1	25
	lot 23 ON ***Well ID:*** 1511618	249.7	26



Map : 0.25 Kilometer Radius

Order No: 20190509005

Address: 788 River Road, Manotick, ON, K4M 0E2

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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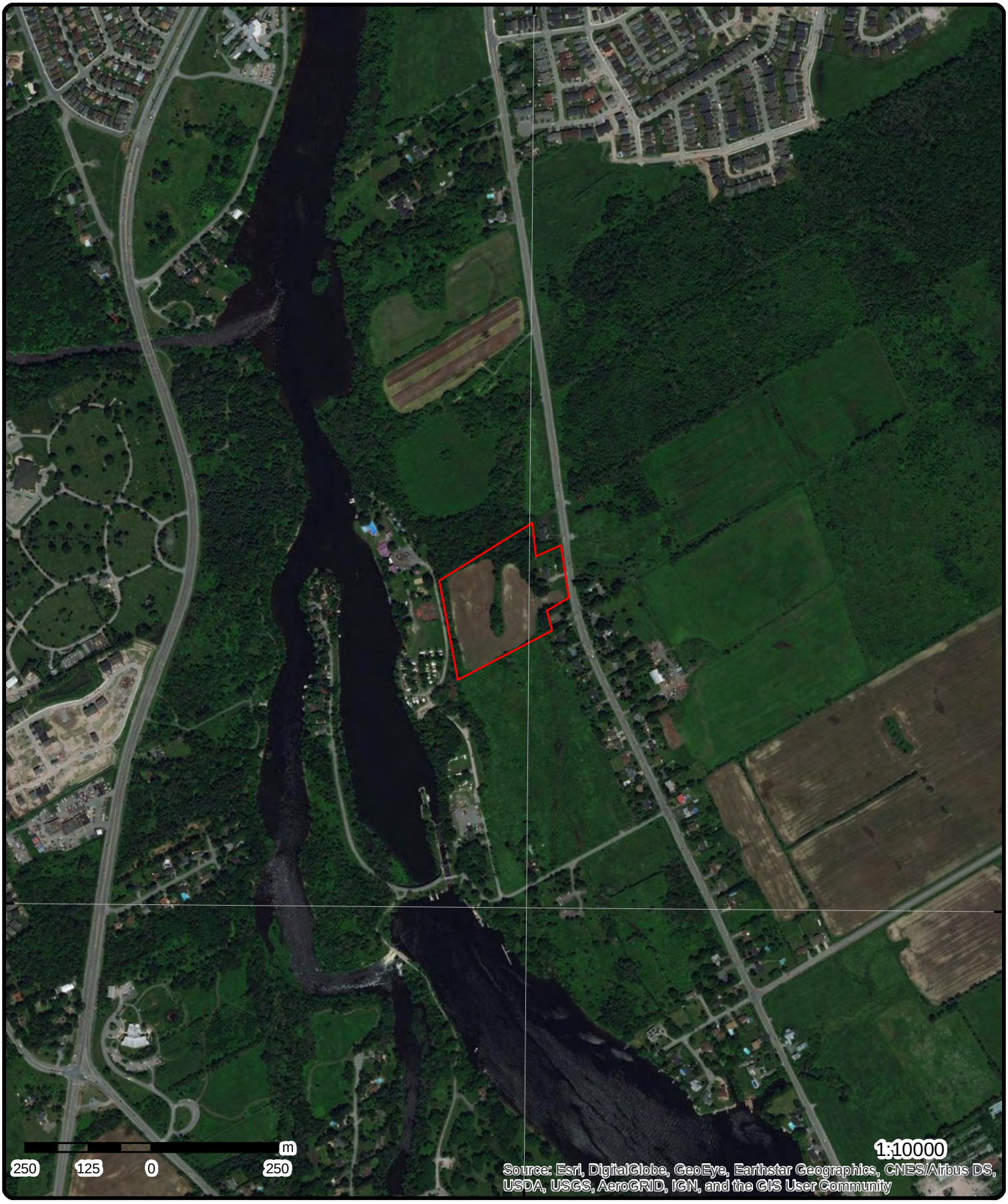
75°42'W

45°15'N



45°15'N

Aerial (2017)

Address: 788 River Road, Manotick, ON, K4M 0E2

Source: ESRI World Imagery

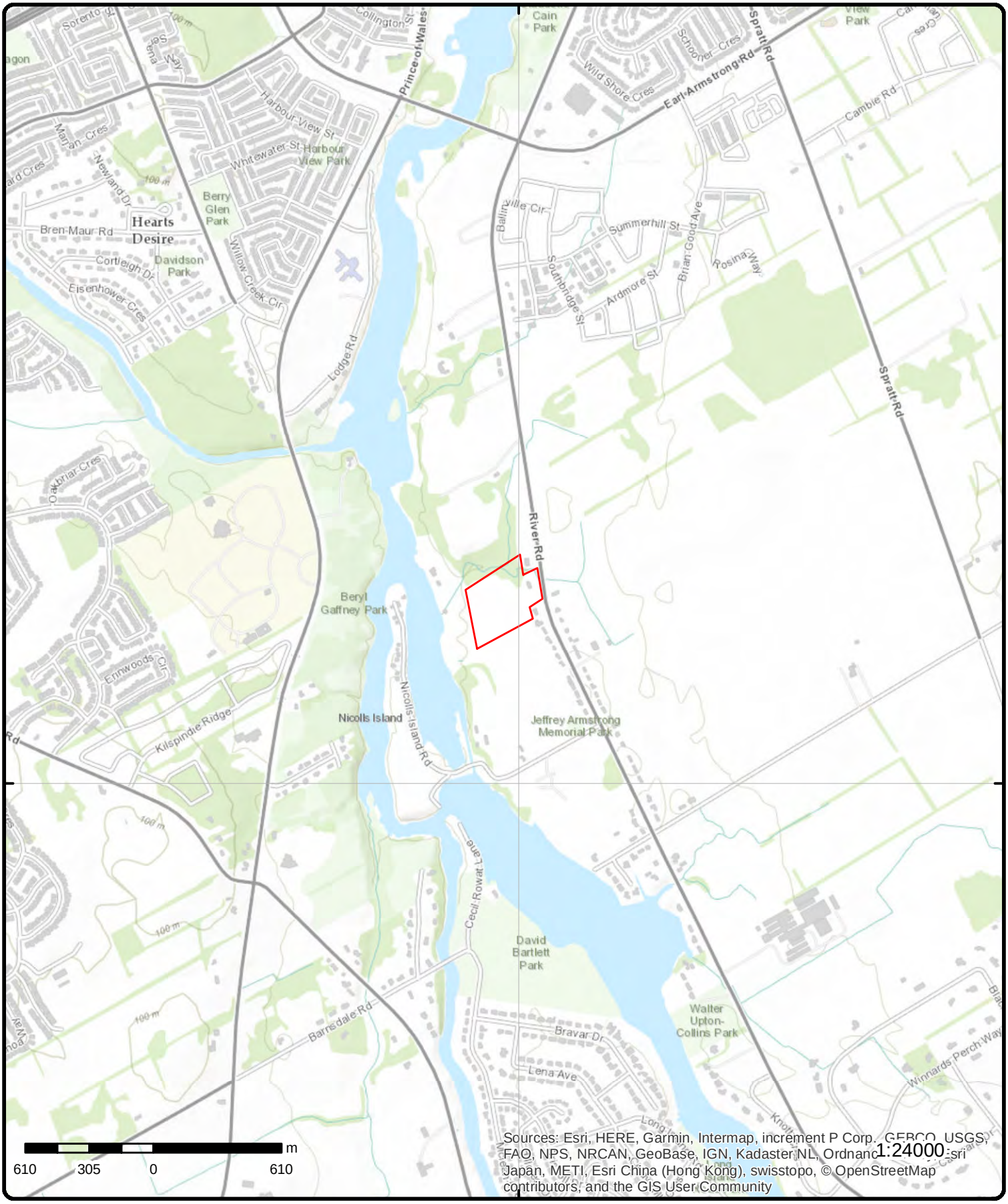
Order No: 20190509005

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

© ERIS Information Limited Partnership

75°42'W

45°15'N



45°15'N

Topographic Map

Order No: 20190509005

Address: 788 River Road, Manotick, ON, K4M 0E2

Source: ESRI World Topographic Map

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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	-/0.0	88.9 / 4.26	lot 23 ON	WWIS

Well ID: 1513511
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/15/1973
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 023
Concession:
Concession Name: BF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10035497
DP2BR: 44
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 30-JUL-73
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 88.79
Elevrc:
Zone: 18
East83: 445110.8
North83: 5011532
Org CS:
UTMRC: 6
UTMRC Desc: margin of error : 300 m - 1 km
Location Method: p6

Overburden and Bedrock Materials Interval

Formation ID: 931023596
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:

Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931023598
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 44
Formation End Depth: 65
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931023599
Layer: 4
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 65
Formation End Depth: 115
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931023597
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 12
Formation End Depth: 44
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961513511
Method Construction Code: 5

Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10584067
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930062819
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 47
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991513511
Pump Set At:
Static Level: 20
Final Level After Pumping: 75
Recommended Pump Depth: 95
Pumping Rate: 14
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: 934897613
Test Type: Draw Down
Test Duration: 60
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934099323
Test Type: Draw Down
Test Duration: 15
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934379144
Test Type: Draw Down

Test Duration:	30
Test Level:	75
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934640138
Test Type:	Draw Down
Test Duration:	45
Test Level:	75
Test Level UOM:	ft

Water Details

Water ID:	933469096
Layer:	3
Kind Code:	1
Kind:	FRESH
Water Found Depth:	114
Water Found Depth UOM:	ft

Water Details

Water ID:	933469094
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	99
Water Found Depth UOM:	ft

Water Details

Water ID:	933469095
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	109
Water Found Depth UOM:	ft

2 ***1 of 1*** ***SSW/8.0*** ***82.1 / -2.52*** ***lot 23 con 1 MANOTICK ON*** ***WWIS***

Well ID:	7122643	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	5/4/2009
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	6006
Casing Material:		**Form Version:**	7
Audit No:	Z85706	**Owner:**	
Tag:	A067977	**Street Name:**	415 NICOLLS ISLAND RD
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	023
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002421086	***Elevation:***	84.88
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	444943
Code OB Desc:		***North83:***	5011408
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	24-MAR-09	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002545333
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Other Materials:	BOULDERS
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	12.12
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002545334
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	12.12
Formation End Depth:	31.86
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002545337
Layer:	1
Plug From:	6.06
Plug To:	0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002545357
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	1002545331
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002545339
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0
Depth To:	12.12
Casing Diameter:	15.86
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002545340
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1002545332
Pump Set At:	15.15
Static Level:	1.11
Final Level After Pumping:	1
Recommended Pump Depth:	24.24
Pumping Rate:	58.5
Flowing Rate:	
Recommended Pump Rate:	58.5
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1002545344
Test Type:	Recovery

Test Duration: 2
Test Level: .82
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545346
Test Type: Draw Down
Test Duration: 4
Test Level: 1.17
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545348
Test Type: Draw Down
Test Duration: 10
Test Level: 1.11
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545350
Test Type: Draw Down
Test Duration: 20
Test Level: 1.02
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545349
Test Type: Draw Down
Test Duration: 15
Test Level: 1.08
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545355
Test Type: Draw Down
Test Duration: 60
Test Level: 1
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545351
Test Type: Draw Down
Test Duration: 25
Test Level: 1.02
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545352
Test Type: Draw Down
Test Duration: 30
Test Level: 1
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545353
Test Type: Draw Down
Test Duration: 40
Test Level: 1
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545341
Test Type: Draw Down
Test Duration: 1
Test Level: 1.15
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545342
Test Type: Recovery
Test Duration: 1
Test Level: .84
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545343
Test Type: Draw Down
Test Duration: 2
Test Level: 1.15
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545345
Test Type: Draw Down
Test Duration: 3
Test Level: 1.16
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545347
Test Type: Draw Down
Test Duration: 5
Test Level: 1.14
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1002545354
Test Type: Draw Down
Test Duration: 50
Test Level: 1
Test Level UOM: m

Water Details

Water ID: 1002545338

Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	27.27
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002545335
Diameter:	15.86
Depth From:	0
Depth To:	12.12
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1002545336
Diameter:	15.23
Depth From:	12.12
Depth To:	31.86
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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3 ***1 of 1*** ***SSW/17.3*** ***82.1 / -2.52*** ***lot 23 con 1 MANOTICK ON*** ***WWIS***

Well ID:	7129102	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Not Used	**Date Received:**	9/3/2009
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Supply	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	6006
Casing Material:		**Form Version:**	7
Audit No:	Z099711	**Owner:**	
Tag:	A086966	**Street Name:**	415 NICOLLS ISLAND RD.
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	PARK-BLOK-4
Depth to Bedrock:		**Lot:**	023
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1002715318	**Elevation:**	85.59
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	444959
Code OB Desc:		**North83:**	5011406
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-AUG-09	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID:	1002839072
Layer:	1
Plug From:	0
Plug To:	12.12
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1002839077
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1002839069
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002839074
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0
Depth To:	12.12
Casing Diameter:	12.7
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1002839075
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1002839073
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

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

Hole Diameter

Hole ID:	1002839071
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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4 ***1 of 2*** ***NNE/17.4*** ***87.7 / 3.05*** ***ON*** ***BORE***

Borehole ID:	611991	***Type:***	Borehole
Use:		***Status:***	
Drill Method:		***UTM Zone:***	18
Easting:	445101	***Northing:***	5011702
Location Accuracy:		***Orig. Ground Elev m:***	88.4
Elev. Reliability Note:		***DEM Ground Elev m:***	87.1
Total Depth m:	30.5	***Primary Name:***	
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	AUG-1957	***Static Water Level:***	-4.9
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218389754	***Top Depth(m):***	0.0
Bottom Depth(m):	24.4	***Stratum Desc:***	CLAY.
Stratum ID:	218389755	***Top Depth(m):***	24.4
Bottom Depth(m):	30.5	***Stratum Desc:***	SANDSTONE. 00100ER STABLE AT 306.0 FEET.BEDROCK,LIMESTONE. UNSPECIFIED. SEISMIC VELOCI

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4 ***2 of 2*** ***NNE/17.4*** ***87.7 / 3.05*** ***lot 23*** ***ON*** ***WWIS***

Well ID:	1500334	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	10/3/1957
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1603
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	023
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022379	***Elevation:***	87.11
DP2BR:	80	***Elevrc:***	

Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	445100.8
Code OB Desc:	Bedrock	***North83:***	5011702
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	09-AUG-57	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930988991
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	80
Formation End Depth:	100
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988990
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	80
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500334
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10570949
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037693
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	100
Casing Diameter:	3
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037692
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	80
Casing Diameter:	3
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500334
Pump Set At:	
Static Level:	23
Final Level After Pumping:	30
Recommended Pump Depth:	
Pumping Rate:	5
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:	3
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933452851
Layer:	1
Kind Code:	3
Kind:	SULPHUR
Water Found Depth:	100
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	1 of 1	NNE/17.6	87.7 / 3.05	lot 23 ON	WWIS

Well ID:	1514044	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	5/27/1974
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644

Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	023
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10036026	***Elevation:***	87.59
DP2BR:	40	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	445098.8
Code OB Desc:	Bedrock	***North83:***	5011719
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	12-JAN-74	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931025179
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	40
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931025180
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Formation Top Depth: 40
Formation End Depth: 75
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961514044
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10584596
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930063644
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 43
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930063645
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991514044
Pump Set At:
Static Level: 8
Final Level After Pumping: 60
Recommended Pump Depth: 60
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID:	934641874
Test Type:	Draw Down
Test Duration:	45
Test Level:	60
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099807
Test Type:	Draw Down
Test Duration:	15
Test Level:	60
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934381299
Test Type:	Draw Down
Test Duration:	30
Test Level:	60
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934899761
Test Type:	Draw Down
Test Duration:	60
Test Level:	60
Test Level UOM:	ft

Water Details

Water ID:	933469824
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	75
Water Found Depth UOM:	ft

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6 ***1 of 2*** ***SE/41.9*** ***90.0 / 5.38*** ***ON*** ***BORE***

Borehole ID:	611983	***Type:***	Borehole
Use:		***Status:***	
Drill Method:		***UTM Zone:***	18
Easting:	445151	***Northing:***	5011482
Location Accuracy:		***Orig. Ground Elev m:***	88.7
Elev. Reliability Note:		***DEM Ground Elev m:***	89.7
Total Depth m:	22.9	***Primary Name:***	
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	OCT-1963	***Static Water Level:***	-999.9
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218389731	***Top Depth(m):***	0.0
Bottom Depth(m):	12.2	***Stratum Desc:***	CLAY.

Stratum ID:	218389732	**Top Depth(m):**	12.2
Bottom Depth(m):	22.9	**Stratum Desc:**	LIMESTONE. 00075ND,GRAVEL,CLAY. BROWN. HARDPAN,BOULDERS. GREY. LIMESTONE. GREY. 00096=

6 **2 of 2** **SE/41.9** **90.0 / 5.38** **lot 24 ON** **WWIS**

Well ID:	1500346	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	12/3/1963
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	024
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022391	**Elevation:**	89.7
DP2BR:	40	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	445150.8
Code OB Desc:	Bedrock	**North83:**	5011482
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	30-OCT-63	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989026
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	40

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989027
Layer: 2
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 40
Formation End Depth: 75
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500346
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570961
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037716
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037715
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 41
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500346

Pump Set At:	
Static Level:	40
Final Level After Pumping:	44
Recommended Pump Depth:	60
Pumping Rate:	4
Flowing Rate:	
Recommended Pump Rate:	4
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:	933452863
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	75
Water Found Depth UOM:	ft

---

7 | ***1 of 1*** | ***SW/56.0*** | ***79.8 / -4.76*** | ***SNC LAVALIN O&M***
415 NICOLLS ISLAND ROAD
MANOTICK ON K4M 1B2 | ***GEN***

Generator No:	ON5344940	**PO Box No:**	
Status:		**Country:**	Canada
Approval Years:	2014	**Choice of Contact:**	CO_OFFICIAL
Contam. Facility:	No	**Co Admin:**	
MHSW Facility:	No	**Phone No Admin:**	
SIC Code:	531310		
SIC Description:	REAL ESTATE PROPERTY MANAGERS		

--Details--

Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS

---

8 | ***1 of 1*** | ***E/56.5*** | ***90.6 / 6.03*** | ***ON*** | ***WWIS***

Well ID:	7287853	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	6/7/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z237339	**Owner:**	
Tag:		**Street Name:**	793 RIVER RD
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	LOT 12A
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1006515141	***Elevation:***	89.71
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	445196
Code OB Desc:		***North83:***	5011539
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	28-APR-17	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006741894
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006741901
Layer:	1
Plug From:	72
Plug To:	6
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006741902
Layer:	2
Plug From:	6
Plug To:	0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006741900
Layer: 1
Plug From: 0
Plug To: 72
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006741899
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1006741893
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006741897
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006741898
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1006741896
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1006741895
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft

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

Hole Diameter UOM: inch

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9 | **1 of 1** | **W/57.9** | **79.0 / -5.63** | **Royal Canadian Mounted Police**
415 Nicolls Island Rd.
Manotic ON K4M 1B2 | **GEN**

Generator No:	ON3014023	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2011	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	911230		
SIC Description:			

--Details--
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

---

10 | **1 of 2** | **W/60.6** | **79.2 / -5.38** | **ON** | **BORE**

Borehole ID:	611986	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	444841	**Northing:**	5011582
Location Accuracy:		**Orig. Ground Elev m:**	79.2
Elev. Reliability Note:		**DEM Ground Elev m:**	79.8
Total Depth m:	15.8	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	MAY-1964	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218389737	**Top Depth(m):**	0.0
Bottom Depth(m):	4.6	**Stratum Desc:**	CLAY.
Stratum ID:	218389738	**Top Depth(m):**	4.6
Bottom Depth(m):	8.5	**Stratum Desc:**	BOULDERS,SAND.
Stratum ID:	218389739	**Top Depth(m):**	8.5
Bottom Depth(m):	15.8	**Stratum Desc:**	GRAVEL,SAND. 000510 FEET.AN,BOULDERS. GREY. LIMESTONE. GREY. 00096= 17000. BEDROC

---

10 | **2 of 2** | **W/60.6** | **79.2 / -5.38** | **lot 23**
ON | **WWIS**

Well ID:	1500337	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	7/6/1964
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	

Depth to Bedrock:		***Lot:***	023
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022382	***Elevation:***	79.77
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	444840.8
Code OB Desc:	Overburden	***North83:***	5011582
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	15-MAY-64	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989000
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	09
Other Materials:	MEDIUM SAND
Mat3:	
Other Materials:	
Formation Top Depth:	28
Formation End Depth:	52
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988999
Layer:	2
Color:	
General Color:	
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	09
Other Materials:	MEDIUM SAND
Mat3:	
Other Materials:	
Formation Top Depth:	15
Formation End Depth:	28
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	930988998
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	15
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500337
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10570952
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037698
Layer:	2
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	52
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037697
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	45
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500337
Pump Set At:	
Static Level:	2
Final Level After Pumping:	2
Recommended Pump Depth:	40

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:	1
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933452854
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51
Water Found Depth UOM:	ft

---

11 ***1 of 1*** ***E/60.9*** ***90.7 / 6.07*** ***lot 23 ON*** ***WWIS***

Well ID:	1516805	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/27/1978
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	023
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10038700	***Elevation:***	88.08
DP2BR:	43	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	445210.8
Code OB Desc:	Bedrock	***North83:***	5011602
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	24-OCT-78	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931033218
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	43
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931033219
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	43
Formation End Depth:	84
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961516805
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10587270
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930067942
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	45
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991516805
Pump Set At:	
Static Level:	15
Final Level After Pumping:	40
Recommended Pump Depth:	40
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	10
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

Draw Down & Recovery

Pump Test Detail ID:	934102374
Test Type:	Draw Down
Test Duration:	15
Test Level:	40
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934643043
Test Type:	Draw Down
Test Duration:	45
Test Level:	40
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934381536
Test Type:	Draw Down
Test Duration:	30
Test Level:	40
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934900527
Test Type:	Draw Down
Test Duration:	60
Test Level:	40
Test Level UOM:	ft

Water Details

Water ID:	933473170
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	78
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	1 of 1	ESE/64.9	90.6 / 6.03	MANOTICK ON	WWIS

Well ID: 7287916
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z237345
Tag: A207611
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 6/7/2017
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
Street Name: 793 RIVER ROAD
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info: LOT 12A
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1006523776
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-APR-17
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 89.71
Elevrc:
Zone: 18
East83: 445201
North83: 5011532
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006751136
Layer: 5
Color: 1
General Color: WHITE
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 15
Other Materials: LIMESTONE
Mat3:
Other Materials:
Formation Top Depth: 74
Formation End Depth: 81
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006751135

Layer:	4
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	72
Formation End Depth:	74
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006751132
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	36
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006751134
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	53
Formation End Depth:	72
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006751133
Layer:	2
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Other Materials:	LIMESTONE
Mat3:	
Other Materials:	
Formation Top Depth:	36
Formation End Depth:	53
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006751173
Layer:	1
Plug From:	42
Plug To:	0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006751172
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1006751130
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006751142
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-2
Depth To:	42
Casing Diameter:	6.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	1006751143
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	42
Depth To:	81
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006751144
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1006751131
Pump Set At:	70
Static Level:	19.75
Final Level After Pumping:	24.25
Recommended Pump Depth:	70
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:	
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	1006751146
Test Type:	Recovery
Test Duration:	1
Test Level:	22.5
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006751149
Test Type:	Draw Down
Test Duration:	3
Test Level:	22.5
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006751151
Test Type:	Draw Down
Test Duration:	4
Test Level:	22.667
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006751165
Test Type:	Draw Down
Test Duration:	40
Test Level:	24.25
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006751166
Test Type:	Recovery
Test Duration:	40
Test Level:	19.75
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 1006751162
Test Type: Recovery
Test Duration: 25
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751163
Test Type: Draw Down
Test Duration: 30
Test Level: 24.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751168
Test Type: Recovery
Test Duration: 50
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751148
Test Type: Recovery
Test Duration: 2
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751150
Test Type: Recovery
Test Duration: 3
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751154
Test Type: Recovery
Test Duration: 5
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751155
Test Type: Draw Down
Test Duration: 10
Test Level: 23.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751164
Test Type: Recovery
Test Duration: 30

Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751170
Test Type: Recovery
Test Duration: 60
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751159
Test Type: Draw Down
Test Duration: 20
Test Level: 24.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751157
Test Type: Draw Down
Test Duration: 15
Test Level: 24.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751160
Test Type: Recovery
Test Duration: 20
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751169
Test Type: Draw Down
Test Duration: 60
Test Level: 24.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751145
Test Type: Draw Down
Test Duration: 1
Test Level: 22
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751153
Test Type: Draw Down
Test Duration: 5
Test Level: 22.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751161
Test Type: Draw Down
Test Duration: 25
Test Level: 24.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751167
Test Type: Draw Down
Test Duration: 50
Test Level: 24.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751147
Test Type: Draw Down
Test Duration: 2
Test Level: 22.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751152
Test Type: Recovery
Test Duration: 4
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751156
Test Type: Recovery
Test Duration: 10
Test Level: 19.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006751158
Test Type: Recovery
Test Duration: 15
Test Level: 19.75
Test Level UOM: ft

Water Details

Water ID: 1006751139
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 53
Water Found Depth UOM: ft

Water Details

Water ID: 1006751140

Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	72
Water Found Depth UOM:	ft

Water Details

Water ID:	1006751141
Layer:	3
Kind Code:	8
Kind:	Untested
Water Found Depth:	74
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006751137
Diameter:	9.75
Depth From:	0
Depth To:	42
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006751138
Diameter:	6
Depth From:	42
Depth To:	81
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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13 | ***1 of 1*** | ***WSW/86.9*** | ***78.5 / -6.07*** | ***lot 23 ON*** | ***WWIS***

Well ID:	1500336	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	7/6/1964
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	023
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022381	**Elevation:**	79.28
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18

Code OB:	o	**East83:**	444830.8
Code OB Desc:	Overburden	**North83:**	5011492
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	13-MAY-64	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930988997
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	35
Formation End Depth:	37
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988996
Layer:	2
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	30
Formation End Depth:	35
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988995
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	30
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500336
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10570951
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037696
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	37
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500336
Pump Set At:	
Static Level:	-6
Final Level After Pumping:	
Recommended Pump Depth:	25
Pumping Rate:	7
Flowing Rate:	6
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:	Y

Water Details

Water ID:	933452853
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	37
Water Found Depth UOM:	ft

14	***1 of 2***	***WNW/108.7***	***79.0 / -5.55***	***ON***	***BORE***

Borehole ID:	611987	***Type:***	Borehole
Use:		***Status:***	

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

Drill Method:		**UTM Zone:**	18
Easting:	444791	**Northing:**	5011632
Location Accuracy:		**Orig. Ground Elev m:**	79.2
Elev. Reliability Note:		**DEM Ground Elev m:**	80.7
Total Depth m:	19.5	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	MAY-1964	**Static Water Level:**	-999.9
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218389740	**Top Depth(m):**	0.0
Bottom Depth(m):	7.6	**Stratum Desc:**	CLAY,BOULDERS.
Stratum ID:	218389741	**Top Depth(m):**	7.6
Bottom Depth(m):	13.4	**Stratum Desc:**	GRAVEL.
Stratum ID:	218389742	**Top Depth(m):**	13.4
Bottom Depth(m):	16.8	**Stratum Desc:**	LIMESTONE.
Stratum ID:	218389743	**Top Depth(m):**	16.8
Bottom Depth(m):	18.0	**Stratum Desc:**	SANDSTONE.
Stratum ID:	218389744	**Top Depth(m):**	18.0
Bottom Depth(m):	19.5	**Stratum Desc:**	LIMESTONE. 00063GREY. LIMESTONE. GREY. 00096= 17000. BEDROCK,LIMESTONE. GREY,SOUND.

14	2 of 2	WNW/108.7	79.0 / -5.55	lot 23 ON	WWIS

Well ID:	1500338	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Public	**Date Received:**	7/6/1964
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1503
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	023
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022383	**Elevation:**	80.75
DP2BR:	44	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	444790.8
Code OB Desc:	Bedrock	**North83:**	5011632
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	22-MAY-64	**UTMRC Desc:**	margin of error : 100 m - 300 m

Remarks: ***Location Method:*** p5
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 930989005
Layer: 5
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 59
Formation End Depth: 64
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989002
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 25
Formation End Depth: 44
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989004
Layer: 4
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 55
Formation End Depth: 59
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989001
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989003
Layer: 3
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 44
Formation End Depth: 55
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500338
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570953
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037700
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 64
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037699
Layer: 1

Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	47
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500338
Pump Set At:	
Static Level:	
Final Level After Pumping:	2
Recommended Pump Depth:	50
Pumping Rate:	10
Flowing Rate:	2
Recommended Pump Rate:	10
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	0
Pumping Duration MIN:	30
Flowing:	Y

Water Details

Water ID:	933452855
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	63
Water Found Depth UOM:	ft

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15 | ***1 of 1*** | ***NNE/118.4*** | ***88.9 / 4.28*** | ***3704 Prince of Wales Dr. Ottawa ON*** | ***EHS***

Order No:	20060911023	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	9/19/2006	**Search Radius (km):**	0.25
Date Received:	8/11/2006	**X:**	-75.699564
Previous Site Name:		**Y:**	45.2579
Lot/Building Size:			
Additional Info Ordered:			

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16 | ***1 of 1*** | ***SSE/127.3*** | ***86.5 / 1.88*** | ***Parcel A & B Ottawa ON*** | ***EHS***

Order No:	20150622099	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	17-JUL-15	**Search Radius (km):**	.25
Date Received:	22-JUN-15	**X:**	-75.700072
Previous Site Name:		**Y:**	45.253399
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 1	SE/133.3	90.2 / 5.58	lot 24 ON	WWIS

Well ID:	1500341	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/8/1959
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	024
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022386	**Elevation:**	89.3
DP2BR:	45	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	445180.8
Code OB Desc:	Bedrock	**North83:**	5011392
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	13-JUL-59	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989011
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	30
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989012

Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 30
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989013
Layer: 3
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 65
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500341
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570956
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037706
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037705
Layer: 1
Material: 1

Open Hole or Material:	STEEL
Depth From:	
Depth To:	45
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500341
Pump Set At:	
Static Level:	14
Final Level After Pumping:	14
Recommended Pump Depth:	14
Pumping Rate:	4
Flowing Rate:	
Recommended Pump Rate:	4
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:	933452858
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65
Water Found Depth UOM:	ft

18 ***1 of 1*** ***SE/155.7*** ***90.1 / 5.53*** ***lot 24 ON*** ***WWIS***

Well ID:	1500340	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	9/8/1959
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3601
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	024
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022385	**Elevation:**	89.41

DP2BR:	46	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	445190.8
Code OB Desc:	Bedrock	**North83:**	5011372
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	29-JUN-59	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989008
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	15
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989010
Layer:	3
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	46
Formation End Depth:	66
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989009
Layer:	2
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	15

Formation End Depth: 46
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500340
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570955
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037704
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 66
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037703
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 46
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500340
Pump Set At:
Static Level: 15
Final Level After Pumping: 22
Recommended Pump Depth: 22
Pumping Rate: 4
Flowing Rate:
Recommended Pump Rate: 4
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

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

Water Details

Water ID:	933452857
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	66
Water Found Depth UOM:	ft

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19 ***1 of 2*** ***NNE/188.1*** ***89.0 / 4.40*** ***ON*** ***BORE***

Borehole ID:	612003	***Type:***	Borehole
Use:		***Status:***	
Drill Method:		***UTM Zone:***	18
Easting:	445091	***Northing:***	5011912
Location Accuracy:		***Orig. Ground Elev m:***	88.4
Elev. Reliability Note:		***DEM Ground Elev m:***	88.4
Total Depth m:	25.9	***Primary Name:***	
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	DEC-1961	***Static Water Level:***	-999.9
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218389786	***Top Depth(m):***	0.0
Bottom Depth(m):	6.4	***Stratum Desc:***	CLAY. BLUE.
Stratum ID:	218389787	***Top Depth(m):***	6.4
Bottom Depth(m):	14.9	***Stratum Desc:***	SAND,BOULDERS,GRAVEL
Stratum ID:	218389788	***Top Depth(m):***	14.9
Bottom Depth(m):	25.9	***Stratum Desc:***	SANDSTONE. 00082STONE,SAND. WHITE. SANDSTONE. WHITE. 00086 = 19500. BEDROCK. SEISMI

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19 ***2 of 2*** ***NNE/188.1*** ***89.0 / 4.40*** ***lot 23 ON*** ***WWIS***

Well ID:	1500335	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/20/1962
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1802
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	023
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022380	**Elevation:**	88.37
DP2BR:	49	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	445090.8
Code OB Desc:	Bedrock	**North83:**	5011912
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	01-DEC-61	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930988992
Layer:	1
Color:	3
General Color:	BLUE
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	21
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988993
Layer:	2
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	13
Other Materials:	BOULDERS
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	21
Formation End Depth:	49
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930988994
Layer:	3
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Formation Top Depth:	49
Formation End Depth:	85
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500335
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10570950
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037695
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	85
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037694
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	51
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500335
Pump Set At:	
Static Level:	23
Final Level After Pumping:	35
Recommended Pump Depth:	35
Pumping Rate:	5
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

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

Water Details

Water ID:	933452852
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	82
Water Found Depth UOM:	ft

---

20 ***1 of 2*** ***SE/198.1*** ***90.9 / 6.35*** ***ON*** ***BORE***

Borehole ID:	611977	***Type:***	Borehole
Use:		***Status:***	
Drill Method:		***UTM Zone:***	18
Easting:	445271	***Northing:***	5011382
Location Accuracy:		***Orig. Ground Elev m:***	89.9
Elev. Reliability Note:		***DEM Ground Elev m:***	90.4
Total Depth m:	15.2	***Primary Name:***	
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	AUG-1958	***Static Water Level:***	-999.9
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218389714	***Top Depth(m):***	0.0
Bottom Depth(m):	11.3	***Stratum Desc:***	CLAY,BOULDERS.
Stratum ID:	218389715	***Top Depth(m):***	11.3
Bottom Depth(m):	15.2	***Stratum Desc:***	LIMESTONE. 0005000060IFIED. SEISMIC VELOCITY = 6600. BEDROCK. SEISMIC VELOCITY = 17000.

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20 ***2 of 2*** ***SE/198.1*** ***90.9 / 6.35*** ***lot 24*** ***ON*** ***WWIS***

Well ID:	1500339	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	10/6/1958
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3601
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	024
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022384	***Elevation:***	90.37
DP2BR:	37	***Elevrc:***	

Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	445270.8
Code OB Desc:	Bedrock	***North83:***	5011382
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	15-AUG-58	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989007
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	37
Formation End Depth:	50
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930989006
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Other Materials:	BOULDERS
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	37
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961500339
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10570954
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930037702
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	50
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037701
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	39
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500339
Pump Set At:	
Static Level:	18
Final Level After Pumping:	20
Recommended Pump Depth:	
Pumping Rate:	4
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933452856
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	50
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	1 of 1	SE/199.7	90.9 / 6.35	***P.J.W. VAN ZYL & SONS LTD*** ***R R 1 805 RIVER RD*** ***MANOTICK ON K4M 1B2***	PES

Billing No:		***Op Municipality:***	
Trade Name:		***Operator Region:***	4
Licence No:	03647	***Operator District:***	
Detail Licence No:	02-01-03647-0	***Operator County:***	15
Licence Type Code:	02	***Oper Area Code:***	

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

Licence Type:	Operator	**Oper Phone No:**	
Licence Class:	01	**Operator Ext:**	
Licence Control:	0	**Region:**	4
Operator No:		**County:**	15
Operator Class:		**District:**	
Operator Type:		**Lot:**	
Operator Lot:		**Concession:**	
Oper Concession:		**Post Office Box:**	
Operator Box:		**Report Source:**	

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22 **1 of 2** **NW/218.5** **79.9 / -4.66** **ON** **BORE**

Borehole ID:	611996	**Type:**	Borehole
Use:		**Status:**	
Drill Method:		**UTM Zone:**	18
Easting:	444751	**Northing:**	5011772
Location Accuracy:		**Orig. Ground Elev m:**	79.2
Elev. Reliability Note:		**DEM Ground Elev m:**	80.8
Total Depth m:	17.4	**Primary Name:**	
Township:		**Concession:**	
Lot:		**Municipality:**	
Completion Date:	AUG-1968	**Static Water Level:**	-7.3
Primary Water Use:		**Sec. Water Use:**	

--Details--

Stratum ID:	218389767	**Top Depth(m):**	0.0
Bottom Depth(m):	12.2	**Stratum Desc:**	CLAY,BOULDERS. GREY.
Stratum ID:	218389768	**Top Depth(m):**	12.2
Bottom Depth(m):	17.4	**Stratum Desc:**	SANDSTONE. 00055284.0 FEET.IC VELOCITY = 5900. BEDROCK. SEISMIC VELOCITY = 19500. BED

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22 **2 of 2** **NW/218.5** **79.9 / -4.66** **lot 22** **ON** **WWIS**

Well ID:	1509609	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/30/1968
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1301
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	022
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10031641	**Elevation:**	80.82

DP2BR:	40	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	444750.7
Code OB Desc:	Bedrock	**North83:**	5011772
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	20-AUG-68	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931012560
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	40
Formation End Depth:	57
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931012559
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Other Materials:	BOULDERS
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	40
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961509609
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10580211
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930055927
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	57
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930055925
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	40
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930055926
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	50
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991509609
Pump Set At:	
Static Level:	6
Final Level After Pumping:	8
Recommended Pump Depth:	25
Pumping Rate:	10
Flowing Rate:	
Recommended Pump Rate:	10
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:	933464485
Layer:	1
Kind Code:	1

Kind: FRESH
Water Found Depth: 55
Water Found Depth UOM: ft

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23 | **1 of 1** | **W/235.0** | **80.2 / -4.44** | **ON** | **WWIS**

Well ID: 1510584
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 5/28/1970
Selected Flag: Yes
Abandonment Rec:
Contractor: 3504
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot:
Concession:
Concession Name: NI
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10032611
DP2BR: 58
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 25-MAR-70
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 84.03
Elevrc:
Zone: 18
East83: 444670.8
North83: 5011542
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 931015297
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 50
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931015298
Layer:	2
Color:	
General Color:	
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	50
Formation End Depth:	58
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931015299
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	58
Formation End Depth:	123
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961510584
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10581181
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930057799
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	123
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930057798
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	59
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991510584
Pump Set At:	
Static Level:	15
Final Level After Pumping:	90
Recommended Pump Depth:	100
Pumping Rate:	3
Flowing Rate:	
Recommended Pump Rate:	4
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934641108
Test Type:	Recovery
Test Duration:	45
Test Level:	26
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934379531
Test Type:	Recovery
Test Duration:	30
Test Level:	31
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934898589
Test Type:	Recovery
Test Duration:	60
Test Level:	24
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934097213
Test Type:	Recovery
Test Duration:	15
Test Level:	44
Test Level UOM:	ft

Water Details

Water ID:	933465608
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	120
Water Found Depth UOM:	ft

24 | ***1 of 1*** | ***SE/239.9*** | ***90.8 / 6.24*** | ***lot 24 ON*** | ***WWIS***

Well ID:	1500342	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/8/1959
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3601
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	024
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	BF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10022387	***Elevation:***	90.39
DP2BR:	45	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	445290.8
Code OB Desc:	Bedrock	***North83:***	5011342
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	24-JUL-59	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930989014
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	

Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 31
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989016
Layer: 3
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930989015
Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 31
Formation End Depth: 45
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961500342
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570957
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037707
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:	
Depth To:	45
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930037708
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	68
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991500342
Pump Set At:	
Static Level:	8
Final Level After Pumping:	8
Recommended Pump Depth:	8
Pumping Rate:	4
Flowing Rate:	
Recommended Pump Rate:	4
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:	933452859
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	68
Water Found Depth UOM:	ft

25 ***1 of 2*** ***WSW/249.1*** ***80.1 / -4.52*** ***ON*** ***BORE***

Borehole ID:	611979	***Type:***	Borehole
Use:		***Status:***	
Drill Method:		***UTM Zone:***	18
Easting:	444681	***Northing:***	5011412
Location Accuracy:		***Orig. Ground Elev m:***	79.2
Elev. Reliability Note:		***DEM Ground Elev m:***	83.7
Total Depth m:	20.7	***Primary Name:***	
Township:		***Concession:***	
Lot:		***Municipality:***	
Completion Date:	SEP-1970	***Static Water Level:***	-999.9
Primary Water Use:		***Sec. Water Use:***	

--Details--

Stratum ID:	218389719	**Top Depth(m):**	0.0
Bottom Depth(m):	7.6	**Stratum Desc:**	CLAY. GREY.
Stratum ID:	218389720	**Top Depth(m):**	7.6
Bottom Depth(m):	9.1	**Stratum Desc:**	CLAY,GRAVEL.
Stratum ID:	218389721	**Top Depth(m):**	9.1
Bottom Depth(m):	11.9	**Stratum Desc:**	GRAVEL.
Stratum ID:	218389722	**Top Depth(m):**	11.9
Bottom Depth(m):	20.7	**Stratum Desc:**	LIMESTONE,SANDSTONE.00064Y = 6600. BEDROCK. SEISMIC VELOCITY = 17000. BEDROCK,LIMESTONE.

25 **2 of 2** **WSW/249.1** **80.1 / -4.52** **ON** **WWIS**

Well ID:	1510899	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	11/4/1970
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	3504
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	NEPEAN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	NI
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10032902	**Elevation:**	83.66
DP2BR:	39	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	444680.8
Code OB Desc:	Bedrock	**North83:**	5011412
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	18-SEP-70	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931016125
Layer:	4
Color:	

General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 18
Other Materials: SANDSTONE
Mat3:
Other Materials:
Formation Top Depth: 39
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931016124
Layer: 3
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 30
Formation End Depth: 39
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931016123
Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 25
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931016122
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	961510899
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10581472
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930058349
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	40
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930058350
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	68
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991510899
Pump Set At:	
Static Level:	10
Final Level After Pumping:	15
Recommended Pump Depth:	30
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	10
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:	934097453
Test Type:	Recovery

Test Duration:	15
Test Level:	10
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934899106
Test Type:	Recovery
Test Duration:	60
Test Level:	10
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934381161
Test Type:	Recovery
Test Duration:	30
Test Level:	10
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934642182
Test Type:	Recovery
Test Duration:	45
Test Level:	10
Test Level UOM:	ft

Water Details

Water ID:	933465943
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	64
Water Found Depth UOM:	ft

---

26 | ***1 of 1*** | ***WSW/249.7*** | ***80.1 / -4.54*** | ***lot 23 ON*** | ***WWIS***

Well ID:	1511618	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	1/13/1972
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA-CARLETON
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	023
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	BF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10033612	***Elevation:***	83.19
DP2BR:	61	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	444670.8
Code OB Desc:	Bedrock	***North83:***	5011462
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	25-NOV-71	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931018267
Layer:	4
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	61
Formation End Depth:	71
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931018268
Layer:	5
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	71
Formation End Depth:	99
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931018264
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	

Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931018266
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 36
Formation End Depth: 61
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931018265
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 4
Formation End Depth: 36
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961511618
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10582182
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930059711
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:

Depth To: 99
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930059710
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 64
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991511618
Pump Set At:
Static Level: 55
Final Level After Pumping: 75
Recommended Pump Depth: 75
Pumping Rate: 8
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: 934644530
Test Type: Draw Down
Test Duration: 45
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934901866
Test Type: Draw Down
Test Duration: 60
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934382814
Test Type: Draw Down
Test Duration: 30
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934098272
Test Type: Draw Down
Test Duration: 15
Test Level: 75
Test Level UOM: ft

Water Details

Water ID: 933466828
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 97
Water Found Depth UOM: ft

Water Details

Water ID: 933466827
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 65
Water Found Depth UOM: ft

Unplottable Summary

Total: 34 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		River Road and part of lots 19 and 20 River Road and Shoreline Drive	Gloucester ON	
CA	FINE FLOWERS LTD.	R.R. #1 RIVER RD.	GLOUCESTER CITY ON	
CA	River Road and Shoreline Drive	River Road and part of lots 19 and 20	Gloucester ON	
CA	Taggart Investments Inc.	Part of Lot 23, Concession 1, formerly Geographic Townsip of Cumberland	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	LOTS 20-23, CONCESSION 1	OTTAWA CITY ON	
CA		Parts of lots 23, 24, and 25, Concession 1	Ottawa ON	
CA	Royal Canadian Mounted Police	Mobile	Ottawa ON	
ECA	Royal Canadian Mounted Police	Mobile	Ottawa ON	K1A 0R2
GEN	RIDEAU CANAL	NORTHERN AREA OFFICE,11/2 MI N REG RD 8 W OF RIVER RD,LONG ISLANDLOCK,POBOX400	MANOTICK ON	K0A 2N0
GEN	National Capital Commission	River Road North	Ottawa ON	K1P1C7
GEN	RIDEAU CANAL	1 1/2 ML. N. OF REGIONAL RD & 8 M. WEST RIVER ROAD-P.U.B. 400, LONG ISLAND LOCK	MANOTICK ON	K0A 2N0
GEN	ENVIRONMENT CANADA, PARKS DEPT.	1 1/2 ML. N. OF R.R. & 8 ML. W. RIVER RD P.U.B. 400, LONG ISLAND LOCK	MANOTICK ON	K0A 2N0
GEN	GOVT. OF CANADA - PARKS CANADA	P.O.BOX 400 400 NICHOLS ISLAND ROAD	MANOTICK ON	K4M 1A4
GEN	GOVT. OF CANADA - PARKS CANADA	P.O.BOX 400 400 NICHOLS ISLAND ROAD	MANOTICK ON	K4M 1A4
GEN	RIDEAU CANAL 33-433	NORTHERN AREA OFFICE,11/2 MI N REG RD 8 W OF RIVER RD,LONG ISLANDLOCK,POBOX400	MANOTICK ON	K0A 2N0
GEN	GVT. OF CAN. - ENVIRONMENT CANADA	RIVER RD. ENVIRONMENTAL TECHNOLOGY CTR. C/O 140 PROMENADE DU PORTAGE, PHASE IV	OTTAWA ON	K1A 0M3

LIMO		Lot 23 Concession 1 ON OTTAWA RIVER NEPEAN Ottawa	ON	
NPCB	ENVIRONMENT CANADA	RIVER ROAD LABS 3439 RIVER ROAD	OTTAWA ON	K1A 0H3
RSC		Part Lot 23, Township of Gloucester	Ottawa ON	
RSC		Part Lot 23	Ottawa ON	
RSC		Lots 23 & 24, Con 1,	Gloucester ON	
SPL	FINES FLOUR	RIVER RD. GLOUCESTER GLOUCESTER PLANT RIVER ROAD	GLOUCESTER CITY ON	
WWIS		con 1	ON	
WWIS		lot 24	ON	
WWIS		lot 24	ON	
WWIS		lot 24	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		con 1	ON	
WWIS		lot 23	ON	

Unplottable Report

Site: ***Database:***
River Road and part of lots 19 and 20 River Road and Shoreline Drive Gloucester ON ***CA***

Certificate #:	0857-4GAJPW
Application Year:	00
Issue Date:	8/17/00
Approval Type:	Municipal & Private water
Status:	Revoked and/or Replaced
Application Type:	New Certificate of Approval
Client Name:	Urbandale Corporation
Client Address:	2193 Arch Street
Client City:	OTTAWA
Client Postal Code:	K1G 2H5
Project Description:	Watermains and appurtenances to be constructed on River Road and Shoreline Drive
Contaminants:	
Emission Control:	

Site: ***FINE FLOWERS LTD.*** ***Database:***
R.R. #1 RIVER RD. GLOUCESTER CITY ON ***CA***

Certificate #:	8-4065-86-
Application Year:	86
Issue Date:	3/16/1987
Approval Type:	Industrial air
Status:	Nullity, letter of concurrence issued
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	WOOD FIRED BOILER
Contaminants:	
Emission Control:	

Site: ***River Road and Shoreline Drive*** ***Database:***
River Road and part of lots 19 and 20 Gloucester ON ***CA***

Certificate #:	0378-4G7QJB
Application Year:	00
Issue Date:	8/17/00
Approval Type:	Municipal & Private sewage
Status:	Revoked and/or Replaced
Application Type:	New Certificate of Approval
Client Name:	Urbandale Corporation
Client Address:	2193 Arch Street
Client City:	Ottawa
Client Postal Code:	K1G 2H5
Project Description:	Storm and Sanitary sewers and appurtenances to be constructed on River Road and Shoreline Drive
Contaminants:	
Emission Control:	

Site: ***Taggart Investments Inc.*** ***Database:***
Part of Lot 23, Concession 1, formerly Geographic Townsip of Cumberland Ottawa ON ***CA***

Certificate #:	5894-6G6MVY

Application Year: 2005
Issue Date: 9/26/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF OTTAWA-CARLETON***
LOTS 20-23, CONCESSION 1 OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1503-94-
Application Year: 94
Issue Date: 12/23/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Parts of lots 23, 24, and 25, Concession 1 Ottawa ON

Database: ***CA***

Certificate #: 3338-4QES6W
Application Year: 00
Issue Date: 10/25/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Claridge Homes (Rockcliffe Mews) Inc.
Client Address: 2001-210 Gladstone Ave.
Client City: Ottawa
Client Postal Code: K2P 0Y6
Project Description: watermains construction on Merganser Circle, Den Haag Drive, the Easement on block 101, and Streets 3 and 4
Contaminants:
Emission Control:

Site: ***Royal Canadian Mounted Police***
Mobile Ottawa ON

Database: ***CA***

Certificate #: 8763-5PFR9N
Application Year: 2003
Issue Date: 8/8/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Royal Canadian Mounted Police***
Mobile Ottawa ON K1A 0R2

Database: ***ECA***

Approval No:	8763-5PFR9N	***MOE District:***	
Approval Date:	2003-08-08	***City:***	Ottawa
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Address:	Mobile		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2550-5LUKRE-14.pdf		

Site: ***RIDEAU CANAL***
NORTHERN AREA OFFICE,11/2 MI N REG RD 8 W OF RIVER RD,LONG ISLANDLOCK,POBOX400 MANOTICK ON K0A 2N0

Database: ***GEN***

Generator No:	ON0992000	***PO Box No:***	
Status:		***Country:***	
Approval Years:	88,89,90	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	8172		
SIC Description:	RES. CONS./IND. DEV.		

--Details--

Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS

Site: ***National Capital Commission***
River Road North Ottawa ON K1P1C7

Database: ***GEN***

Generator No:	ON9269241	***PO Box No:***	
Status:		***Country:***	Canada
Approval Years:	2014	***Choice of Contact:***	CO_OFFICIAL
Contam. Facility:	No	***Co Admin:***	
MHSW Facility:	No	***Phone No Admin:***	
SIC Code:	991910		
SIC Description:	991910		

--Details--

Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS

Site: ***RIDEAU CANAL***
1 1/2 ML. N. OF REGIONAL RD & 8 M. WEST RIVER ROAD-P.U.B. 400, LONG ISLAND LOCK MANOTICK ON K0A 2N0

Database: ***GEN***

Generator No:	ON0992000	***PO Box No:***	
Status:		***Country:***	
Approval Years:	99,00,01	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	

SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***ENVIRONMENT CANADA, PARKS DEPT.***
1 1/2 ML. N. OF R.R. & 8 ML. W. RIVER RD P.U.B. 400, LONG ISLAND LOCK MANOTICK ON K0A 2N0

Database: ***GEN***

Generator No: ON0992000
Status:
Approval Years: 92,93,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***GOVT. OF CANADA - PARKS CANADA***
P.O.BOX 400 400 NICHOLS ISLAND ROAD MANOTICK ON K4M 1A4

Database: ***GEN***

Generator No: ON0198123
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 712120
SIC Description: 712120

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

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

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

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

Waste Code: 221
Waste Description: LIGHT FUELS

Site: ***GOVT. OF CANADA - PARKS CANADA***
P.O.BOX 400 400 NICHOLS ISLAND ROAD MANOTICK ON K4M 1A4

Database: ***GEN***

Generator No: ON0198123
Status:
Approval Years: 2015

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL

Contam. Facility: No
MHSW Facility: No
SIC Code: 712120
SIC Description: 712120

Co Admin:
Phone No Admin:

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

Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

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

Waste Code: 221
Waste Description: LIGHT FUELS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: ***RIDEAU CANAL 33-433***
NORTHERN AREA OFFICE,11/2 MI N REG RD 8 W OF RIVER RD,LONG ISLANDLOCK,POBOX400 MANOTICK ON K0A 2N0

Database: ***GEN***

Generator No: ON0992000
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 8172
SIC Description: RES. CONS./IND. DEV.

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: ***GVT. OF CAN. - ENVIRONMENT CANADA***
RIVER RD. ENVIRONMENTAL TECHNOLOGY CTR. C/O 140 PROMENADE DU PORTAGE, PHASE IV OTTAWA ON K1A 0M3

Database: ***GEN***

Generator No: ON0198101
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 8173
SIC Description: ENVIRON. ADMIN.

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

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

Waste Code: 221
Waste Description: LIGHT FUELS

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

Waste Code: 242

Waste Description: HALOGENATED PESTICIDES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS

Waste Code: 211
Waste Description: AROMATIC SOLVENTS

Waste Code: 222
Waste Description: HEAVY FUELS

Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Site:
Lot 23 Concession 1 ON OTTAWA RIVER NEPEAN Ottawa ON

Database: ***LIMO***

ECA/Instrument No:	X1007	***Air Emis Monitor:***	
Site Name:		***Natural Attenuation:***	
Oper Status 2016:	Historic	***Liners:***	
C of A Issue Date:		***Cover Material:***	
C of A Issued to:		***Leachate Off-Site:***	
Lndfl Gas Mgmt (P):		***Leachate On Site:***	
Lndfl Gas Mgmt (F):		***Req Coll Lndfll Gas:***	
Lndfl Gas Mgmt (E):		***Lndfll Gas Coll:***	
Lndfl Gas Mgmt Sys:		***Total Waste Rec:***	
Landfill Gas Mntr:		***TWR Methodology:***	
Leachate Coll Sys:		***TWR Unit:***	
ERC Est Vol (m3):		***Tot Aprv Cap Unit:***	
ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***MOE Region:***	
Source File Type:	Historic and Closed Landfills	***MOE District:***	
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Approved Waste Type:			
Client Site Name:			
ERC Methodology:			

Site Location Details: Lot 23 Concession 1 ON OTTAWA RIVER NEPEAN

Ottawa

Service Area:

Site: ***ENVIRONMENT CANADA***
RIVER ROAD LABS 3439 RIVER ROAD OTTAWA ON K1A 0H3

Database: ***NPCB***

Company Code: O3229
Industry: ENVIRONMENT CANADA
Site Status: ITEMS SENT TO SWAN HILLS
Transaction Date: 10/9/1996
Inspection Date: 7/24/1996

Site:

Part Lot 23, Township of Gloucester Ottawa ON

Database: ***RSC***

RSC ID:
RA No:
RSC Type:
Curr Property Use:
Ministry District: Ottawa
Filing Date: 07/05/01
Date Ack:
Date Returned: 07/23/01
Restoration Type:
Soil Type:
Criteria:
CPU Issued Sect 1686:
Asmt Roll No:
Prop ID No:
Property Municipal Address:
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant: DST Consulting Engineers Inc.
Filing Owner:
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF:

Cert Date:
Cert Prop Use No:
Intended Prop Use:
Qual Person Name:
Stratified (Y/N):
Audit (Y/N):
Entire Leg Prop. (Y/N):
Accuracy Estimate:
Telephone:
Fax:
Email:

Site:

Part Lot 23 Ottawa ON

Database: ***RSC***

RSC ID:
RA No:
RSC Type:
Curr Property Use:
Ministry District: Ottawa
Filing Date: 07/05/01
Date Ack: 08/14/01
Date Returned:
Restoration Type: Generic
Soil Type: Medium/Fine
Criteria: Res/parkland + Nonpotable
CPU Issued Sect 1686:
Asmt Roll No:
Prop ID No:
Property Municipal Address:
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant: DST Consulting Engineers Inc.
Filing Owner:
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF:

Cert Date:
Cert Prop Use No:
Intended Prop Use:
Qual Person Name:
Stratified (Y/N): N
Audit (Y/N):
Entire Leg Prop. (Y/N):
Accuracy Estimate:
Telephone:
Fax:
Email:

Site:

Lots 23 & 24, Con 1, Gloucester ON

Database: ***RSC***

RSC ID:
RA No:
RSC Type:
Curr Property Use:
Ministry District:
Filing Date: 01/26/00

Cert Date:
Cert Prop Use No:
Intended Prop Use:
Qual Person Name:
Stratified (Y/N):
Audit (Y/N):

Date Ack:		***Entire Leg Prop. (Y/N):***	
Date Returned:	03/10/00	***Accuracy Estimate:***	
Restoration Type:		***Telephone:***	
Soil Type:		***Fax:***	
Criteria:		***Email:***	
CPU Issued Sect 1686:			
Asmt Roll No:			
Prop ID No:			
Property Municipal Address:			
Mailing Address:			
Latitude & Latitude:			
UTM Coordinates:			
Consultant:			
Filing Owner:			
Legal Desc:			
Measurement Method:			
Applicable Standards:			
RSC PDF:			

Site: ***FINES FLOUR***
RIVER RD. GLOUCESTER GLOUCESTER PLANT RIVER ROAD GLOUCESTER CITY ON

Database: ***SPL***

Ref No:	176	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	2/9/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	20105
Nature of Impact:	SOIL CONTAMINATION	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2/9/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	MATERIAL FAILURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	OIL FROM ABOVE GROUND STORAGE TANK TO GROUND.		
Contaminant Qty:			

Site:
con 1 ON

Database: ***WWIS***

Well ID:	1525673	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	10/21/1991
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3644
Casing Material:		***Form Version:***	1
Audit No:	68558	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	RF

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047408
DP2BR: 45
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 27-FEB-91
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931061986
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 45
Formation End Depth: 103
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061985
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 32
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061984
Layer: 1
Color: 2
General Color: GREY

Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 32
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525673
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10595978
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082984
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 103
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082983
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 49
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525673
Pump Set At:
Static Level: 35
Final Level After Pumping: 55
Recommended Pump Depth: 55
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 8
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

Draw Down & Recovery

Pump Test Detail ID: 934388707
Test Type:
Test Duration: 30
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934105048
Test Type:
Test Duration: 15
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906425
Test Type:
Test Duration: 60
Test Level: 55
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934649245
Test Type:
Test Duration: 45
Test Level: 55
Test Level UOM: ft

Water Details

Water ID: 933484724
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

Water Details

Water ID: 933484725
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 98
Water Found Depth UOM: ft

Site:
lot 24 ON

Database:
WWIS

Well ID: 1517129
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:

Data Entry Status:
Data Src: 1
Date Received: 9/24/1979
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1

Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 024
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10039009
DP2BR: 45
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 14-JUN-79
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931034218
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 35
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931034219
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 35
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931034220
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	45
Formation End Depth:	60
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961517129
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10587579
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930068381
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	46
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991517129
Pump Set At:	
Static Level:	15
Final Level After Pumping:	40
Recommended Pump Depth:	40
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	10
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

Draw Down & Recovery

Pump Test Detail ID: 934382665
Test Type:
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934102664
Test Type:
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934901649
Test Type:
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934644168
Test Type:
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933473551
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 57
Water Found Depth UOM: ft

Site:
lot 24 ON

Database:
WWIS

Well ID: 1530764
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 201707
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 9/1/1999
Selected Flag: Yes
Abandonment Rec:
Contractor: 4006
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 024
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10052298	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	17-JUL-99	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933115915
Layer:	1
Plug From:	0
Plug To:	20
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115916
Layer:	2
Plug From:	20
Plug To:	40
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933115917
Layer:	3
Plug From:	40
Plug To:	60
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961530764
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	10600868
Casing No:	1
Comment:	
Alt Name:	

Site:
lot 24 ON

Database: ***WWIS***

Well ID:	1534384	***Data Entry Status:***	

Construction Date:		***Data Src:***	1
Primary Water Use:	Not Used	***Date Received:***	12/16/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	
Water Type:		***Contractor:***	6907
Casing Material:		***Form Version:***	2
Audit No:	265843	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	024
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11097434	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	22-NOV-03	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961534384
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11101149
Casing No:	1
Comment:	
Alt Name:	

Site:
con 1 ON

Database:
WWIS

Well ID:	1501587	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	1/6/1947
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3566
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON

Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot:
Concession: 01
Concession Name: OF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10023630
DP2BR: 90
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 15-NOV-46
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 930992252
Layer: 2
Color:
General Color:
Mat1: 17
Most Common Material: SHALE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 90
Formation End Depth: 167
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930992251
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 90
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961501587
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10572200
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930040106
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 92
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930040107
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 167
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991501587
Pump Set At:
Static Level: 10
Final Level After Pumping: 30
Recommended Pump Depth:
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Water Details

Water ID: 933454305
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth:
Water Found Depth UOM: ft

Site:
con 1 ON

Database:
WWIS

Well ID:	1519865	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/16/1985
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1558
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10041718	***Elevation:***	
DP2BR:	60	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01-AUG-85	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931042997
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	81
Other Materials:	SANDY
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	5
Formation End Depth:	60
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931042998
Layer:	3
Color:	2
General Color:	GREY

Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 60
Formation End Depth: 75
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931042996
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961519865
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10590288
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930072831
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 75
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930072830
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 62
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	991519865
Pump Set At:	
Static Level:	25
Final Level After Pumping:	30
Recommended Pump Depth:	50
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:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934109742
Test Type:	Draw Down
Test Duration:	15
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934384474
Test Type:	Draw Down
Test Duration:	30
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934655014
Test Type:	Draw Down
Test Duration:	45
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934895214
Test Type:	Draw Down
Test Duration:	60
Test Level:	30
Test Level UOM:	ft

Water Details

Water ID:	933476954
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70
Water Found Depth UOM:	ft

Site:
con 1 ON

Database:
WWIS

Well ID:	1528250	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Not Used	***Date Received:***	10/24/1994
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	6844
Casing Material:		***Form Version:***	1
Audit No:	151799	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10049789	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	
Code OB Desc:	Overburden	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	11-OCT-94	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931069086
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	5
Formation End Depth:	10
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931069085
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL

Mat2: 11
Other Materials: GRAVEL
Mat3: 78
Other Materials: MEDIUM-GRAINED
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113110
Layer: 3
Plug From: 5
Plug To: 10
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113109
Layer: 2
Plug From: 4
Plug To: 5
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113108
Layer: 1
Plug From: 1
Plug To: 4
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961528250
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598359
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087025
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID:	933326510
Layer:	1
Slot:	100
Screen Top Depth:	5
Screen End Depth:	10
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2

Water Details

Water ID:	933487871
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	7
Water Found Depth UOM:	ft

Site:
con 1 ON

Database:
WWIS

Well ID:	1528855	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	2/21/1996
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	6629
Casing Material:		***Form Version:***	1
Audit No:	135092	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10050391	***Elevation:***	
DP2BR:	55	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	27-JUN-95	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931071020

Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 55
Formation End Depth: 94
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931071021
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 94
Formation End Depth: 103
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931071018
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Other Materials: SANDY
Mat3: 66
Other Materials: DENSE
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931071019
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 25
Formation End Depth: 55
Formation End Depth UOM: ft

Method of Construction & Well

Use

Method Construction ID: 961528855
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10598961
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930088072
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 58
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991528855
Pump Set At:
Static Level: 30
Final Level After Pumping: 65
Recommended Pump Depth: 90
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method:
Pumping Duration HR: 1
Pumping Duration MIN: 15
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934105744
Test Type: Draw Down
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934389369
Test Type: Draw Down
Test Duration: 30
Test Level: 65
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934658544

Test Type: Draw Down
Test Duration: 45
Test Level: 65
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907069
Test Type: Draw Down
Test Duration: 60
Test Level: 65
Test Level UOM: ft

Water Details

Water ID: 933488726
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 103
Water Found Depth UOM: ft

Water Details

Water ID: 933488725
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 97
Water Found Depth UOM: ft

Water Details

Water ID: 933488724
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 85
Water Found Depth UOM: ft

Site:
con 1 ON

Database:
WWIS

Well ID: 1532635
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Abandoned-Quality
Water Type:
Casing Material:
Audit No: 235219
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/17/2002
Selected Flag: Yes
Abandonment Rec:
Contractor: 4006
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot:
Concession: 01
Concession Name: OF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10523764	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	05-DEC-01	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961532635
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11072334
Casing No:	1
Comment:	
Alt Name:	

Site:
con 1 ON

Database:
WWIS

Well ID:	1529330	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Commerical	***Date Received:***	2/14/1997
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	
Water Type:		***Contractor:***	6844
Casing Material:		***Form Version:***	1
Audit No:	169507	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	OF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10050866	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	
Code OB Desc:	Overburden	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9

Date Completed: 06-DEC-96
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931072413
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 17
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933114302
Layer: 1
Plug From: 0
Plug To: 2
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933114303
Layer: 2
Plug From: 2
Plug To: 17
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961529330
Method Construction Code: A
Method Construction: Digging
Other Method Construction:

Pipe Information

Pipe ID: 10599436
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930088795
Layer: 1
Material: 5

Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	17
Casing Diameter:	36
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933326678
Layer:	1
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	36

Water Details

Water ID:	933489269
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	6
Water Found Depth UOM:	ft

Site:
con 1 ON

Database:
WWIS

Well ID:	1534064	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Not Used	***Date Received:***	9/9/2003
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Abandoned-Other	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	1
Audit No:	248010	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA-CARLETON
Elevation (m):		***Municipality:***	NEPEAN TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	01
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10543179	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	_	***East83:***	
Code OB Desc:	No formation data	***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	12-AUG-03	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Method of Construction & Well Use

Method Construction ID: 961534064
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11091749
Casing No: 1
Comment:
Alt Name:

Site:
lot 23 ON

Database: ***WWIS***

Well ID: 1520631
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/12/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA-CARLETON
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 023
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042473
DP2BR: 19
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 05-MAY-86
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

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

Overburden and Bedrock Materials Interval

Formation ID: 931045366

Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 19
Formation End Depth: 63
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931045365
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 15
Formation End Depth: 19
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931045364
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961520631
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591043
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074135

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

Construction Record - Casing

Casing ID: 930074136
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 63
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520631
Pump Set At:
Static Level: 10
Final Level After Pumping: 30
Recommended Pump Depth: 30
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 10
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

Draw Down & Recovery

Pump Test Detail ID: 934648403
Test Type:
Test Duration: 45
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112517
Test Type:
Test Duration: 15
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907164
Test Type:
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934387380
Test Type:	
Test Duration:	30
Test Level:	30
Test Level UOM:	ft

Water Details

Water ID:	933477930
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	40
Water Found Depth UOM:	ft

Water Details

Water ID:	933477931
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	58
Water Found Depth UOM:	ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2018

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Jan 31, 2019

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*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks: Provincial CFOT

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; this listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2019

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 - Mar 2019

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Mar 2019

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Mar 31, 2019

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 - Oct 2018

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Mar 31, 2019

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Mar 31, 2019

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011-Mar 31, 2019

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Jan 31, 2019

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2018

List of TSSA Expired Facilities: Provincial EXP

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Oct 2018

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Dec 31, 2018

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents: Provincial HINC

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

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the 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. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Sep 30, 2017

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Jan 2019

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, 2017

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Dec 31, 2018

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Feb 28, 2019

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-May 2018

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Mar 31, 2019

Canadian Pulp and Paper: Private PAP

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

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

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: 1988-Sep 2018

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Mar 31, 2019

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

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

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2019

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jan 31, 2019

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-Feb 2019

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2018

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Mar 31, 2019

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Dec 31, 2017

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX B

Regulatory Responses

From: Chowdhury, Shihan
Sent: May-09-19 11:18 AM
To: 'jehanne.hurlbut@ontario.ca'
Subject: Requesting Info on PIN 045891862 and 045890409 in Ottawa
Attachments: Site Plan_PIN 045891862 and 045890409.JPG

Good morning Jéhanne,

I am working on a Phase I Environmental Site Assessment for a property (PIN 045891862 and 045890409) located west of River Road in Riverside South, Ottawa. Appreciate if you kindly check for any approvals and/or orders associated with this property. A site layout plan (with site boundary marked in red) is attached for reference.

Please let me know if you have any queries.

Best regards,
Shihan A. Chowdhury, EIT | Junior Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 406-6892 | **E:** Shihan_Chowdhury@golder.com
www.golder.com

Work Safe, Home Safe

From: Public Information Services <publicinformationservices@tssa.org>
Sent: May-09-19 1:14 PM
To: Chowdhury, Shihan
Subject: RE: TSSA Search Request for PIN 045891862 and 045890409 in Ottawa

EXTERNAL EMAIL

No Records Found

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are **no fuel storage tanks records** in our database at the subject address(es).

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to 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.

Kind regards,

Connie Hill | Public Information Agent
Facilities
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3383 | Fax: +1-416-231-6183 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Chowdhury, Shihan <Shihan_Chowdhury@golder.com>
Sent: May 9, 2019 11:58 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: TSSA Search Request for PIN 045891862 and 045890409 in Ottawa

Good afternoon,

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 located at:

- 760 River Road, Ottawa
- 782 River Road, Ottawa
- 788 River Road, Ottawa

- 792 River Road, Ottawa
- 798 River Road, Ottawa
- 800 River Road, Ottawa
- 789 River Road, Ottawa
- 793 River Road, Ottawa
- 879 River Road, Ottawa
- 415 Nicolls Island Road, Ottawa

A site layout plan (with site boundary marked in red) is attached for reference.

Kindly let me know if you have any queries.

Best Regards,
Shihan A. Chowdhury, EIT | Junior Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 406-6892 | **E:** Shihan_Chowdhury@golder.com
www.golder.com

Work Safe, Home Safe

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

From: Chowdhury, Shihan
Sent: May-09-19 11:28 AM
To: SARontario@ontario.ca
Subject: Requesting Info on PIN 045891862 and 045890409 in Ottawa
Attachments: Site Plan_PIN 045891862 and 045890409.JPG

Good morning,

I am working on a Phase I Environmental Site Assessment for a property (PIN 045891862 and 045890409) located west of River Road in Riverside South, Ottawa. Appreciate if you kindly check for the following associated with the property and surrounding areas:

- Areas of natural significance;
- Areas of natural and scientific interest;
- Natural Heritage Features (such as Provincially Significant Wetlands, Areas of Natural and Scientific Interest, etc.);
- Potential for the presence of Threatened (THR) and/or Endangered (END) species; and
- Any Species of Special Concern.

A site layout plan (with site boundary marked in red) is attached for reference.

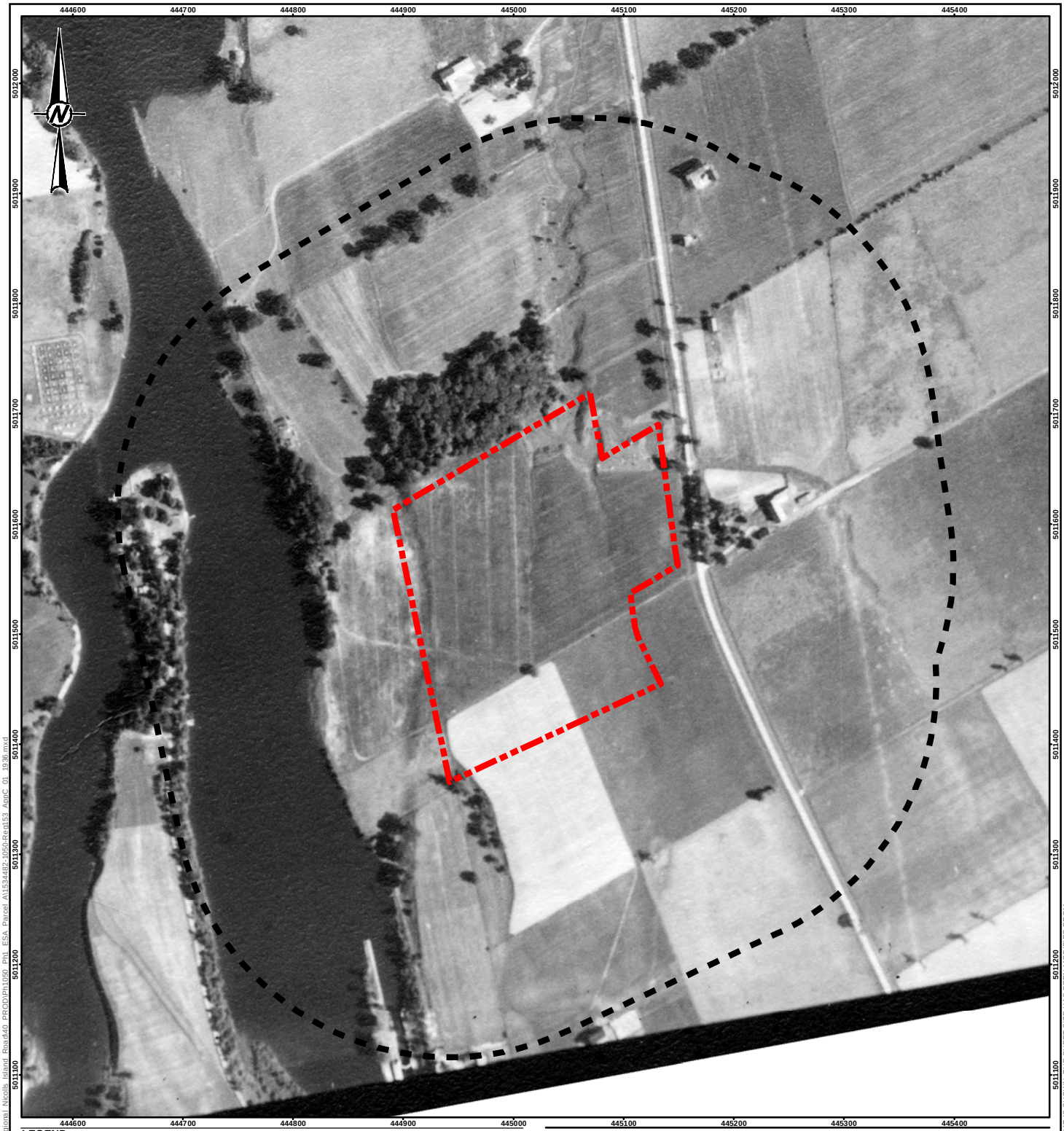
Please let me know if you have any queries.

Shihan A. Chowdhury, EIT | Junior Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592 9600 | **F:** +1 (613) 592 9601 | **C:** +1 (613) 406-6892 | **E:** Shihan_Chowdhury@golder.com
www.golder.com

Work Safe, Home Safe

APPENDIX C

Aerial Photographs



LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 50 100 200

1:5,000 METRES

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

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
1936 AERIAL PHOTO

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

PROJECT NO.	PHASE	REV.	APPENDIX
1534482	1050	0	**C1**

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

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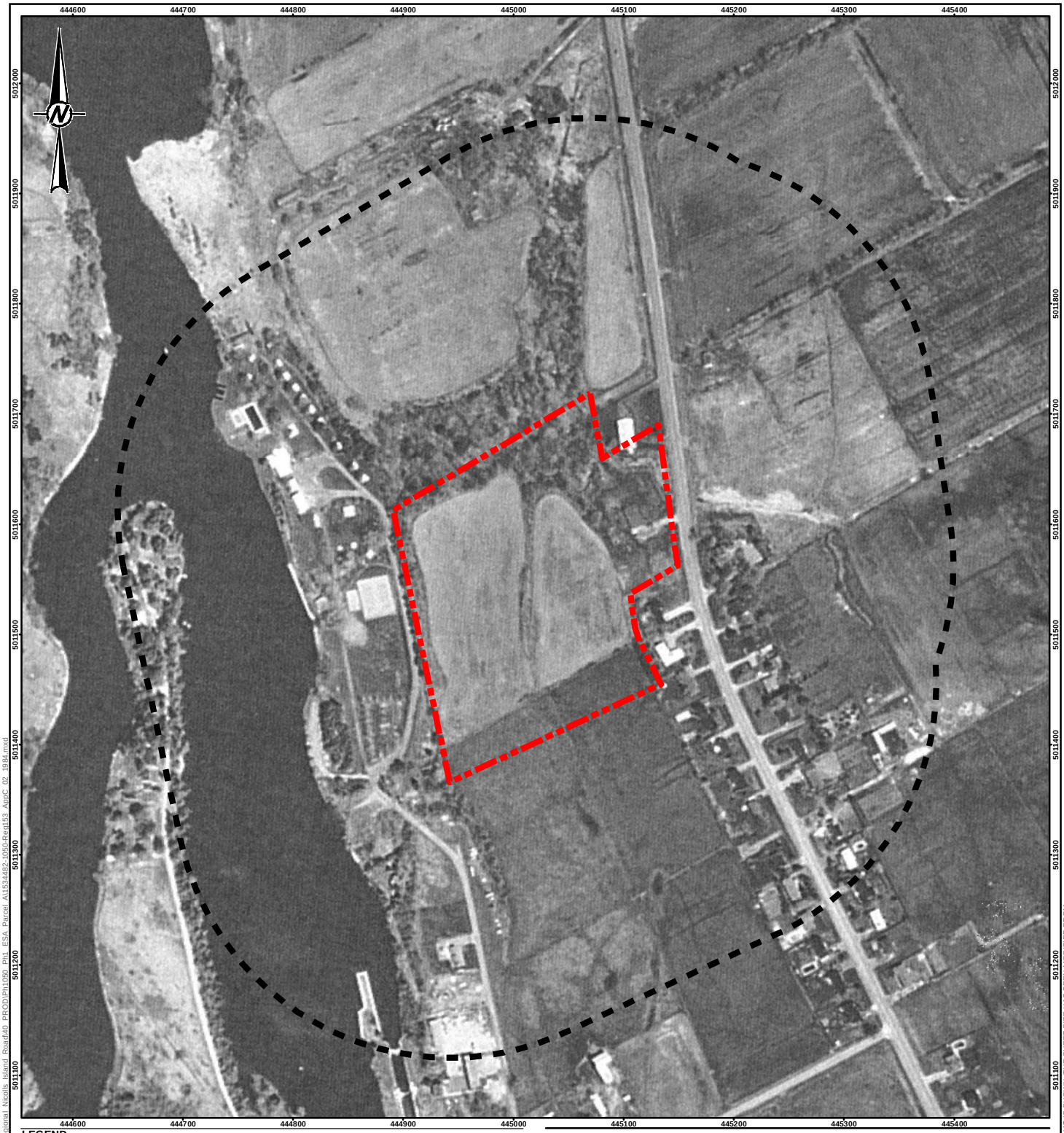

LEGEND

PHASE ONE SITE

PHASE ONE STUDY AREA

0 50 100 200

1:5,000 METRES

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

CLIENT
THE REGIONAL GROUP OF COMPANIES INC.

PROJECT
O.REG 153/04 PHASE I ESA FOR NICHOLS LOCK (WRIGHT LANDS) PROPERTY

TITLE
1984 AERIAL PHOTO

CONSULTANT
GOLDER

YYYY-MM-DD	2019-05-08
DESIGNED	----
PREPARED	BR
REVIEWED	SAC
APPROVED	EDW

PROJECT NO.	PHASE	REV.	APPENDIX
1534482	1050	0	**C2**

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

Site Photographs

Photo 1 – View of the residential building (#788 River Road) on northeast corner of the Site, looking southeast.

Photo 2 – View of storage shed associated with the on-Site residence.

CLIENT

Nicolls Island Holdings Inc.

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TITLE

Photographic Record

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FIGURE **D1**

Photo 3 – View of vent and fill pipes, likely associated with former UST, entering the ground on the northeast corner of the residential building.

Photo 4 – View of potential UST feeder line observed in the basement furnace room of the residence, located along the inside wall adjacent to exterior vent/fill pipes.

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FIGURE **D2**

Photo 5 – View of the vacant land portion of the Site from the northeast corner, looking southwest.

Photo 6 – View of the vacant land portion of the Site from the southwest corner, looking northeast.

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TITLE

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FIGURE **D3**

Photo 7 – View of the archaeological features identified on the southwest corner of the Site.

Photo 8 – View of a monitoring well on the northwest corner of the Site from a geotechnical investigation.

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TITLE

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FIGURE **D4**

Photo 9 – View of typical overgrown vegetation along the west and north perimeters of the Site.

Photo 10 – View of ravine flowing along the north Site perimeter at a lower elevation from the Site, looking northwest.

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FIGURE **D5**

Photo 11 – View of the adjacent residential building (#782 River Road) located northeast of the Site, looking northeast.

Photo 12 – View of the residential sub-division development located north and northeast (across River Road) of the Site, looking northeast.

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FIGURE **D6**

Photo 13 – View of the residential homes located east of the Site (across River Road), looking southeast.

Photo 14 – View of vacant lands located adjacent to the south of the Site, looking southwest.

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FIGURE **D7**

Photo 17 – View of the RCMP campground (at lower elevation compared to the Site) located adjacent to the west of the Site, looking northwest.

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FIGURE **D8**

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