



January 2017

REPORT ON

Phase One Environmental Site Assessment, Riverside South Lands Proposed Development, Ottawa, Ontario

Submitted to:

Jim Burghout
Claridge Homes Corporation
2001-210 Gladstone Avenue
Ottawa, Ontario
K2P 0Y6

REPORT



Report Number: 1658448

1 e-copy – Claridge Homes Corporation
6 copies – Claridge Homes Corporation
1 e-copy – Golder Associates Ltd.





Executive Summary

Golder Associates Ltd. (Golder) was retained by Claridge Homes Corporation (Claridge) to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the property located at City of Ottawa property identification numbers 043300073 and 043300076, Part of Lots 23 and 24, Broken Front Concession (Rideau Front), Geographic Township of Gloucester, City of Ottawa (herein after referred to as the “Site” or “Phase One Property”).

At the time of the Site reconnaissance, conducted on November 9, 2016, the Site consisted of a 39 hectare parcel of mainly undeveloped/agricultural land. A farm/maintenance compound encroaches the western edge of the Site, with 4 buildings/structures.

It is understood that the Phase One Property is to be subdivided and developed with residential dwellings. The Site is owned by Claridge.

Based on review of the available aerial photographs, the majority of the Phase One Property has remained undeveloped and used for agricultural purposes since at least 1965.

The Phase One ESA was completed in accordance with O.Reg. 153/04 and included a review of available current and historical information on the Site and surrounding properties, a Site walkover, interview, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 9.0 of this report. The Site is not considered an enhanced investigation property as defined by O.Reg. 153/04.

The following relevant Potentially Contaminating Activities and contaminants of concern were identified on the Phase One Property or in the Phase One Study Area:

- Importation of Fill Material of Unknown Quality – Stockpiles of fill were observed around the farm/maintenance compound (metals, PHCs).
- Gasoline and Associated Products Storage in Fixed Tanks – Eight inactive aboveground storage tanks (ASTs) were present on the Site in the farm/maintenance compound. Refueling of farm equipment took place in the compound and inside the maintenance shop/garage building that encroaches the property (PHCs, VOCs).
- Salt Manufacturing, Processing, and Bulk Storage – Salt is stored in the farm/maintenance compound for winter road salting (sodium, conductivity).
- Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners – Waste is burned in a burn bin located at the eastern edge of the farm/maintenance compound (PHCs, PAHs, VOCs, metals).

Based on the information obtained and reviewed as part of this Phase One ESA, the area occupied by the farm maintenance compound east of 805 River Road is considered an Area of Potential Environmental Concern and as such a Phase II ESA is recommended.



Table of Contents

| | |
|--|----------|
| EXECUTIVE SUMMARY | i |
| 1.0 INTRODUCTION | 1 |
| 1.1 Phase One Property Information | 1 |
| 2.0 SCOPE OF INVESTIGATION..... | 1 |
| 3.0 RECORDS REVIEW | 2 |
| 3.1 General..... | 2 |
| 3.1.1 Phase One Study Area Determination..... | 2 |
| 3.1.2 First Developed Use Determination | 2 |
| 3.1.3 Fire Insurance Plans | 2 |
| 3.1.4 Chain of Title..... | 2 |
| 3.1.5 City Directories..... | 2 |
| 3.1.6 Environmental Reports | 3 |
| 3.2 Environmental Source Information..... | 3 |
| 3.2.1 Ministry of the Environment | 3 |
| 3.2.2 Ontario Ministry of Natural Resources and Forestry | 3 |
| 3.2.3 Technical Standards and Safety Authority, Fuel Safety Division Records | 3 |
| 3.3 Physical Setting Sources | 4 |
| 3.3.1 Aerial Photographs..... | 4 |
| 3.3.2 Topography, Hydrology and Geology..... | 4 |
| 3.3.3 Fill Materials..... | 5 |
| 3.3.4 Water Bodies and Areas of Natural Significance | 5 |
| 3.3.5 Well Records..... | 6 |
| 3.4 Site Operating Records | 6 |
| 4.0 INTERVIEWS..... | 6 |
| 5.0 SITE RECONNAISSANCE | 6 |
| 5.1 General Requirements..... | 6 |
| 5.2 Specific Observations at Phase One Property..... | 7 |
| 5.2.1 Enhanced Investigation Property | 9 |
| 5.3 Surrounding Land Use..... | 10 |
| 5.4 Written Description of Investigation | 10 |



6.0 REVIEW AND EVALUATION OF INFORMATION..... 11

6.1 Current and Past Uses of the Site 11

6.2 Potentially Contaminating Activity..... 11

6.3 Areas of Potential Environmental Concern 12

6.4 Conceptual Site Model..... 13

6.4.1 Uncertainty and Absence of Information 14

7.0 CONCLUSIONS 14

7.1 Need for a Phase Two ESA..... 14

8.0 REFERENCES 15

9.0 LIMITATIONS AND USE OF REPORT 16

10.0 CLOSURE 17

FIGURES

Figure 1: Key Plan

Figure 2A: Site Plan

Figure 2B: Potentially Contaminating Activities and Areas of Potential Environmental Concern

Figure 3: Topographic Map and Areas of Natural Significance

Figure 4: Surficial Geology

Figure 5: Drift Thickness

Figure 6: Bedrock Geology

Figure 7: Soil Survey Complex (Ontario Soils)

Figure 8: Physiography Map

APPENDICES

APPENDIX A

Historical Information

APPENDIX B

Regulatory Responses

APPENDIX C

Site Photos

APPENDIX D

Aerial Photographs



1.0 INTRODUCTION

1.1 Phase One Property Information

Golder Associates Ltd. (Golder) was retained by Claridge Homes Corporation (Claridge) to conduct a Phase One Environmental Site Assessment (Phase One ESA) of the following property:

| | |
|--|---|
| Municipal Address | None |
| Property Identification Numbers | 043300073 and 043300076 |
| Legal Description | Part of Lots 23 and 24, Broken Front Concession (Rideau Front), Geographic Township of Gloucester, City of Ottawa |

The Site location is provided on Figure 1. A Site plan is provided on Figure 2A.

The contact information for the Phase One Property owner is:

| Site Owner / Client | Address | Contact Information |
|---|--|--|
| Client and Owner: Claridge Homes Corporation | Claridge Homes Corporation 2001 - 210 Gladstone Ave. Ottawa, ON K2P 0Y6 | Mr. Jim Burghout Email: jim.burghout@claridgehomes.com |

2.0 SCOPE OF INVESTIGATION

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

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



3.0 RECORDS REVIEW

3.1 General

3.1.1 Phase One Study Area Determination

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

3.1.2 First Developed Use Determination

The date of first developed use of the Phase One Property was determined based on review of the aerial photographs, city directories, and EcoLog ERIS Report. Along the western edge of the Phase One Property, adjacent to 805 River Road, a farm/maintenance compound was constructed sometime between 1976 and 1984 which overlaps on to the Site. The remainder of the Site has remained undeveloped and either vacant or used for agricultural purposes since at least 1965.

Based on the available information, the first developed use of the Phase One Property is between 1976 and 1984 resulting from the encroachment of the activities at 805 River Road.

3.1.3 Fire Insurance Plans

Golder reviewed in-house records for any information (i.e., fire insurance plans or reports) relating to the Site. No records were found for the Site.

3.1.4 Chain of Title

Chain of title information for the Phase One Property was not obtained. The majority of the land (with the exception of the farm/maintenance compound adjacent to 805 River Road) has remained undeveloped and used for agricultural purposes since at least 1965, and therefore chain of title information was not deemed pertinent to the environmental condition of the Phase One Property.

3.1.5 City Directories

A review of historical city directories for the years 1992, 1996/97, 2001/02, 2006/07, 2011 was completed by EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) for the Phase One Property and surrounding properties (within 250 m) along River Road and Rideau Road.

Based on Golder's review of the city directory information, the following summarizes the noteworthy findings of the city directory review.

Phase One Property

- As the Phase One Property was not registered with a municipal address there was no record in the city directories.

Surrounding Area

- 673 Rideau Road was listed as Ottawa Interlock in the 2011 city directory.



3.1.6 Environmental Reports

Golder was not provided with any previous environmental reports for the Site or neighbouring properties.

3.2 Environmental Source Information

Golder contracted EcoLog Environmental Risk Information Services Ltd. (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.

No noteworthy records were reported for the Phase One Property.

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

- A spill was reported at 821 River Road (immediately adjacent to the west of the Phase One Property) on August 21, 2005. The spill was a leak of furnace oil to ground and resulted in soil contamination. The spill was likely adjacent to the residence which is more than 40 metres from the Site and is unlikely to have impacted the Site.
- The homes adjacent to the Site and to the west (downgradient of the Site) are primarily serviced by drilled water wells.

3.2.1 Ministry of the Environment

The local district office of the Ministry of the Environment and Climate Change (MOECC) was contacted to determine if the MOECC has maintained a file with respect to the Site. Specifically, the MOECC was asked to respond in writing to the following questions:

- Has the MOECC ever issued any approvals, permits or licences for the Site?
- Has the MOECC ever issued any control orders or violation notices with respect to the Site?

The MOECC responded on November 28, 2016 and no relevant information pertaining to the environmental condition of the site was found.

3.2.2 Ontario Ministry of Natural Resources and Forestry

Ontario's Ministry of Natural Resources and Forestry (MNRF) was asked to search their records for the following:

- information about areas of natural significance in the vicinity of the Site
- any other environmental concerns related to the Site and surrounding area

The MNRF responded on December 28, 2016 and no findings indicating potential environmental concerns to the Site was found.

3.2.3 Technical Standards and Safety Authority, Fuel Safety Division Records

The Technical Standards and Safety Authority (TSSA) maintains records related to registered underground storage tanks (USTs) for petroleum-related products. The TSSA was contacted to establish the status of the Site and to identify outstanding instructions, incident reports, fuel oil spills or contamination records. On November 9, 2016, Mr. Ruchi Chohan of the TSSA reported via e-mail that there were no records on file pertaining to the Site or surrounding properties.



3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs of the Site and neighbouring properties obtained from Golder’s in-house photo records for the years 1965, 1984, and 1991, as well as geoOttawa images from 1976, 2009, and 2014, were reviewed by Golder. Representative photographs were selected for review based on an approximate ten year interval. The information obtained from the aerial photographs was limited by the quality and scale of the available aerial photographs. The earliest aerial photograph available was from 1965.

Information obtained from the review of the aerial photography is summarized in the following table.

| Year | Site | Surrounding Area |
|---------------------------|---|---|
| 1965 | The Site is comprised of agricultural fields. | North: Agricultural fields; forested land to the northwest. East: Agricultural fields and Spratt Road. South: Agricultural fields. West: Residential houses along River Road, followed by agricultural fields. |
| 1976 (geoOttawa image) | As per the 1965 aerial photograph. | As per the 1965 aerial photograph. |
| 1984 | As per the 1976 aerial photograph, except a garage/shop structure has been constructed at the eastern edge of the site, adjacent to 805 River Road. Surrounding the barn some garage/shop, and a few parked vehicles. | As per the 1976 aerial photograph. |
| 1991 | As per the 1984 aerial photograph. | As per the 1984 aerial photograph. |
| 1999 (geoOttawa image) | As per the 1991 aerial photograph, except the yard area west of the barn/farm structure has roughly doubled in size. | As per the 1991 aerial photograph. |
| 2009 (geoOttawa image) | As per the 1999 aerial photograph. | As per the 1999 aerial photograph. |
| 2014 (geoOttawa image) | As per the 2009 aerial photograph. | As per the 2009 aerial photograph. |

Based on the aerial photographs, the Phase One Property appears to have included agricultural fields since at least 1965. The surrounding properties primarily included agricultural fields and associated structures.

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 showing the Site area and the location of any water bodies is provided in Figure 3, following the text of this report. Additional information on Site features, as observed at the time of the Site visit, is provided in Section 6.



**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH LANDS PROPOSED DEVELOPMENT**

| Topic | Conditions | Comment / Source |
|--|--|---|
| Topography of Site and Surrounding Area | The topography of the Site was generally flat. The surrounding area generally slopes gradually towards the Rideau River, to the west. | Site and surrounding area observations |
| Overburden Soils | Primarily offshore marine deposits of clay, silty clay, and silt. The eastern portion of the site is comprised of till (drumlinized), till (with plain local relief <5m), and bedrock (limestone, dolomite, sandstone, and local shale). | Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311. Belanger, J.R., 2008. |
| Type of Bedrock | Oxford formation of dolostone, minor shale, and sandstone. | Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 219. |
| Depth to Bedrock | 0 to 15 m. | Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311. Belanger, J.R., 2008. |
| Inferred Near Surface Groundwater Flow | Local and regional groundwater is anticipated to flow in a westward direction towards the Rideau River. | Site observations |
| Site Grade Relative to the Adjoining Properties | The Site appears to follow the topography of the area and is at grade with respect to properties located adjacent to the Site. | Site observations |
| Depth to Groundwater | Not identified. | N/A |

3.3.3 Fill Materials

| Topic | Conditions | Comment / Source |
|-----------------------|--|--------------------------------------|
| Fill Materials | Three stockpiles of soil fill were observed near the farm compound adjacent to 805 River Road. No debris, staining, or odour were observed in the fill. Aerial photographs from 1999, 2009, and 2014 show stockpiles of fill around the farm/maintenance compound. | Site observations/aerial photographs |

3.3.4 Water Bodies and Areas of Natural Significance

| Topic | Conditions | Comment / Source |
|---|--|--------------------------|
| Nearest Open Water Body | The Rideau River is located roughly 440 m west of the Phase One Property at its closest point. | Google Earth |
| Areas of Natural Significance (ANSI) | None identified within the Phase One Study Area. | Land Information Ontario |



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 water table, drilling date, use) | None reported or observed. No wells were identified on the Site that are used or intended for use as a source of water | EcoLog ERIS Report and Site observations |
| Water Wells on the Neighbouring Properties (location, stratigraphy of the overburden, from ground surface to bedrock, depth to water table, drilling rate, use) | EcoLog ERIS reported 25 wells within the Phase One Study Area. The wells were reportedly constructed for water supply. Stratigraphy was generally described as clay and/or sand boulders overlying limestone bedrock. The majority of the nearby wells were drilled in the 1960's. Full well records can be found in the EcoLog ERIS Report in Appendix A. | EcoLog ERIS Report |

3.4 Site Operating Records

At the time of the Site visit, the Phase One Property was developed with farm/maintenance structures at the west end of the Phase One Property, adjacent to 805 River Road, while the majority of the Phase One Property was either vacant or used for agricultural purposes (crop production). No Site operating records were provided to Golder for review.

4.0 INTERVIEWS

Mr. Van Zyl of P.J.W Van Zyl & Sons Ltd. (hereinafter referred to as the “Site representative”), responded to questions on Site on November 9, 2016. Mr. Van Zyl worked for the former property owner, whose operation encroached the Phase One Property, adjacent to 805 River Road. Pursuant to the requirements O.Reg. 153/04, the Site representative was interviewed as the “current owner” with knowledge of current Site operations.

Relevant information obtained during the interview and Site visit is provided in the Section 6.0.

5.0 SITE RECONNAISSANCE

5.1 General Requirements

Mr. James Doyle (Environmental Engineer) of Golder visited the Site for two hours on November 9, 2016 at 2:00 pm. Mr. Doyle has a B.Eng. and M.A.Sc. (Environmental Engineering) from Carleton University. The Site visit consisted of a walk-around the Site along with a cursory inspection of surrounding properties from the Site and publicly accessible areas. The weather conditions were sunny and the temperature was approximately 5°C. The Site was developed with farm/maintenance structures at the west end of the Phase One Property, adjacent to 805 River Road, while the majority of the Phase One Property was either vacant or used for agricultural purposes (crop production) at the time of the Site visit.

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



5.2 Specific Observations at Phase One Property

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

| Topic | Observations | Source |
|---|--|---|
| Structures Number, Age, and Description of Buildings on the Site | <p>Three buildings are present on Site:</p> <ul style="list-style-type: none"> - A farm equipment maintenance shop/garage. This building encroaches the Site but is not entirely located on the property. This building was constructed between 1976 and 1984. - A road maintenance/salting equipment storage building is located completely on Site, in the farm/maintenance compound. This building was constructed between 1991 and 1999. - A small wooden storage shed is located completely on Site, in the farm/maintenance compound. This building was constructed between 1976 and 1984. - An out of service silo is located in the farm/maintenance compound. This structure was constructed between 1976 and 1984. | Site observations, aerial photographs |
| Building Areas | The roughly cover 700 square feet of the Phase One Property. | Site observations |
| Number of Floors (include all levels, whether above or below ground) | All buildings are single storey. | Site observations |
| Number, Age, and Depth of Levels Below Ground Level | No below ground levels are present. | Site observations |
| Number and Details of all Aboveground Storage Tanks (ASTs) | Six out of service ASTs (used for diesel or gasoline mixture) were present on Site. The Site representative indicated that the ASTs were used at some point for filling of farm and road maintenance vehicles. | Site observations and Site Representative |
| Number and Details of all Underground Storage Tanks (USTs) | No USTs were observed or reported on the Phase One Property. | Site observations and Site Representative |
| Underground Utilities Potable and Non-Potable Water Sources | No active potable water source is present. Potable water is provided by drilled wells to the surrounding properties. | Site observations, Site Representative |
| Utility Lines Present (i.e., Electrical, Natural Gas, other) | No utility drawings are available for the Site. | - |
| Sanitary/Process Wastewater Receptor | No sanitary or process wastewater is generated on-Site. | Site observations |
| Sanitary Sewer Connection | No sanitary sewer connection is available at the Site. | Site observations |



**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH LANDS PROPOSED DEVELOPMENT**

| Topic | Observations | Source |
|--|---|---------------------------------------|
| Septic Systems | None identified. | Site observations |
| Storm Water Flow | Infiltration. | Site observations |
| Storm Sewer Connection | No storm sewer connection is available at the Site. | Site observations |
| Interior of Structures Entry and Exit Points for Site Buildings | Structure entries are through standard hinged doors. | Site observations |
| Existing and Former Heating System(s) (include fuel type / source) | N/A | Site observations |
| Existing and Former Cooling System(s) (include fuel type / source) | N/A | N/A |
| Drains, Pits, and Sumps (include current use, if any, and former use) | A drainage ditch flows through the western agricultural fields on the Phase One Property. | N/A |
| Unidentified Substances | 5 L plastic drums containing unidentified substances were present on Site, in the maintenance shop/garage. | Site observations |
| Floor Stains or Corrosion Located near a Potential Discharge Location | None identified. | Site observations |
| Miscellaneous Exterior Location of any Current and Former Wells | None identified on Site. | Site observations |
| Ground Cover (i.e., grass, gravel, soil, or pavement, etc.) | The majority of the Phase One Property was covered with vegetation. The farm / maintenance compound is covered by gravel. | Site observations |
| Current or Former Railway Lines or Spurs | None observed or reported. | Site observations. |
| Presence of Stained Soil, Vegetation, or Pavement | None observed. | Site observations |
| Presence of Stressed Vegetation | None observed. | Site observations |
| Areas Where Fill and/or Debris Materials Appear to Have Been Placed | Three stockpiles of fill were present on Site at the south end of the farm/maintenance compound at the time of the Site visit. Aerial photographs from 1999, 2009, and 2014 also show fill stockpiles around the farm/maintenance compound. | Site observations/aerial photographs. |
| Potentially Contaminating Activity | The presence of a maintenance shop/garage, fuel tanks, and bulk road salt storage are all potentially contaminating activities. These potentially contaminating activities are discussed further in Section 7. | Site observations |



5.2.1 Enhanced Investigation Property

The Site is not considered to be an enhanced investigation property; however, the investigation was conducted in a manner consistent with the requirements for enhanced investigation properties as described in subsection 13(3) of O.Reg. 153/04. Relevant information is reported in the following table:

| Topic | Observations | Source |
|--|--|---------------------------------|
| Operations at the property, including processing or manufacturing | The Site is used primarily for agricultural crop production, and some maintenance / storage in the farm/maintenance compound. No processing or manufacturing processes were observed or reported. | Site observations and interview |
| Hazardous materials used or stored at the Phase one property | 5 L plastic drums containing unidentified substances were present on Site, in the maintenance shop/garage. The drums likely contain waste oil and/or automotive fluids. | Site observations and interview |
| Products manufactured at the Phase one property; | None observed or reported. | Site observations and interview |
| By-products and wastes at the Phase one property | Waste drums containing unidentified substances or empty waste drums were present on Site. Waste debris (wood, insulation, building materials) were also present towards the east end of the farm/maintenance compound. | Site observations |
| Raw materials handling and storage locations at the Phase one property | None observed or reported. | Site observations |
| Location and contents of drums, totes and bins at the Phase one property | Roughly ten (10) 20 L plastic waste drums containing unidentified substances were present on Site. Roughly seven (7) empty 200 L drums were present on Site. The former contents of these drums is unknown. Four (4) empty totes were also present on Site. The former contents of these totes is unknown. | Site observations |
| The location, installation date, source of incoming liquid and effluent discharge location for all oil-water separators | None observed or reported. | Site observations |
| All vehicle and equipment maintenance areas, including the locations of maintenance, fluid storage, and waste storage areas | Vehicle and equipment maintenance was conducted in the maintenance shop/garage building that encroaches the Site. | Site observations and interview |



| Topic | Observations | Source |
|---|---|-------------------|
| Details of all spills including the dates, locations, materials involved, and volumes of material spilled; | None observed or reported. | Site observations |
| Details of liquid discharge points such as water and French drains, including their locations | A drainage ditch flows through the western agricultural fields on the Phase One Property. | Site observations |
| Details of all hydraulic lift equipment at the property, including elevators, in-ground hoists and loading docks | None observed or reported. | Site observations |

5.3 Surrounding Land Use

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

The surrounding properties include residential and agricultural land uses, as illustrated on Figure 2A.

North (upgradient): The area north of the Site was vacant and covered with long grasses, bushes, and trees.

East (cross-gradient): Agricultural fields. Spratt Road runs along the easternmost border of the Site.

West (cross gradient): Residential dwellings along River Road, followed by agricultural fields.

South (downgradient): Agricultural fields with residential and agricultural structures. Some vacant land lies southeast of the Phase One Property.

5.4 Written Description of Investigation

At the time of the Site reconnaissance, conducted on November 9, 2016, the Site consisted of a 96 acre (39 hectare) parcel of undeveloped land. Four buildings were located completely or partially on the Phase One Property. The surrounding properties within the Phase One Study Area included residential and agricultural land uses.

The findings of the Site and area reconnaissance resulted in identification of four on-Site PCA's (Section 7.2), affecting three on-Site APECs (Section 7.3).



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 | Description of Property Use | Property Use | Other Observations from Aerial Photographs, Fire Insurance Plans, Etc. |
|-----------------------|-----------------------------|---------------------------|--|
| Prior to 1965 to 1976 | Undeveloped | Agricultural or other use | 1965 aerial photograph shows agricultural fields on the Phase One Property. |
| 1976 to Present | Developed | Agricultural or other use | The 1976 aerial photograph shows the development of the farm / maintenance compound, adjacent to 805 River Road. |

The Site was previously used for agricultural purposes prior to 1965. In 1976, a small portion of the Site was developed with a farm/maintenance compound which encroached onto the Site from the adjacent 805 River Road property.

6.2 Potentially Contaminating Activity

The following PCAs were identified on the Phase One Property or in the Phase One Study Area:

| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|--------------------|---|---|---|
| Phase One Property | 30. Importation of Fill Material of Unknown Quality – Stockpiles of fill were observed around the farm/maintenance compound. | Site observations, aerial photographs | The PCA is located on the Phase One Property and must be identified as an APEC. |
| | 28. Gasoline and Associated Products Storage in Fixed Tanks – Eight inactive aboveground storage tanks (ASTs) were present on the Site in the farm/maintenance compound. Refueling of farm equipment took place in the compound and inside the maintenance shop/garage building that encroaches the property | Site observations, site representative | The PCA is located on the Phase One Property and must be identified as an APEC. |
| | 48. Salt Manufacturing, Processing, and Bulk Storage – Salt is stored in the farm/maintenance compound for winter road salting. | Site observations and site representative | The PCA is located on the Phase One Property and must be identified as an APEC. |



**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH LANDS PROPOSED DEVELOPMENT**

| Location | Potentially Contaminating Activity | Information Source | Rationale for Potential Contribution of the PCA to an APEC |
|----------|---|---|---|
| | 58. Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners – Waste is burned in a burn bin located at the eastern edge of the farm/maintenance compound. Additionally, there is storage of liquid wastes (likely waste oil and/or automotive fluids) in 5 L plastic drums. | Site observations and site representative | The PCA is located on the Phase One Property and must be identified as an APEC. |

6.3 Areas of Potential Environmental Concern

A summary of the APECs identified at the Phase One Property is provided in the following table and is presented in Figure 2B.

| Area of Potential Environmental Concern | Location of Area of Potential Environmental Concern on Phase One Property | Potentially Contaminating Activity | Location of PCA (on-Site or off-Site) | Contaminants of Potential Concern | Media Potentially Impacted (Groundwater, soil and/or Sediment) |
|---|---|--|---------------------------------------|--|--|
| On-Site Soil and Groundwater impacts associated with the area around the farm maintenance yard east of 805 River Road | Western edge of the Phase One Property, adjacent to 805 River Road | #28. Gasoline and Associated Products Storage in Fixed Tanks #30. Importation of Fill Material of Unknown Quality #48. Salt Manufacturing, Processing, and Bulk Storage #58. Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners | On-Site | Groundwater: PHCs and VOCs, Soil: PHCs, PAHs, VOCs, metals, sodium adsorption ratio and conductivity. | Soil and Groundwater |



6.4 Conceptual Site Model

The following key Site features (as required by O.Reg. 153/04) are presented in Figures 1 to 3:

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

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

- The Site consisted of two parcels of land that are roughly 96 acres (39 hectares) in area. Four buildings/structures were present on Site, adjacent to 805 River Road.
- No water bodies or areas of natural significance were identified on or within 30 m of the Phase One Study Area.
- Potable water in the vicinity of the Site is provided potable water wells. No potable water wells were identified on the Phase One Property.
- At the time of the Phase One ESA, the Site was partially used for agricultural crop production and farm equipment/vehicle maintenance, and partially vacant. Historically, the Site has been used solely for agricultural purposes since at least 1965. There are no indications that the Phase One Property was used for an industrial use or any of the following commercial uses: commercial vehicle garage, bulk liquid dispensing facility, or dry cleaning facility, however, some vehicle maintenance occurred in the area of the farm maintenance compound, east of 805 River Road.
- At the time of the Phase One ESA, the neighbouring properties within the Phase One Study Area consisted of residential and agricultural land uses. There are no indications that neighbouring properties in the Phase One Study Area were used for an industrial use or any of the following commercial uses: commercial vehicle garage, bulk liquid dispensing facility, or dry cleaning facility.
- The following relevant PCAs and contaminants of concern were identified on the Phase One Property or in the Phase One Study Area:
 - Importation of Fill Material of Unknown Quality – Stockpiles of fill were observed around the farm/maintenance compound (metals, PAHs and PHCs).
 - Gasoline and Associated Products Storage in Fixed Tanks – Eight inactive aboveground storage tanks (ASTs) were present on the Site in the farm/maintenance compound. Refueling of farm equipment took place in the compound and inside the maintenance shop/garage building that encroaches the property (PHCs, VOCs).



- Salt Manufacturing, Processing, and Bulk Storage – Salt is stored in the farm/maintenance compound for winter road salting (sodium adsorption ration and conductivity).
- Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners – Waste is burned in a burn bin located at the eastern edge of the farm/maintenance compound (PHCs, VOCs, PAHs and metals).
- No underground utilities are known to be present at the Phase One Property.
- Soil at the Site consists primarily of offshore marine deposits of clay, silty clay, and silt.
- Local and regional groundwater is anticipated to flow in a westward direction towards the Rideau River (located approximately 440 m east of the Site).

6.4.1 Uncertainty and Absence of Information

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

7.1 Need for a Phase Two ESA

Based on the information obtained and reviewed as part of this Phase One ESA, the area occupied by the farm maintenance compound east of 805 River Road is considered an APEC and as such a Phase II ESA is recommended.



8.0 REFERENCES

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

| Source | Date |
|---|--|
| Ontario Regulation (O.Reg.) 153/04 Records of Site Condition | January 1, 2014 |
| Urban Geology of the National Capital Area, Geological Survey of Canada, Open File 5311. Belanger, J.R., 2008. | 2008 |
| Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic Geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release – Data 219. | 2007 |
| Chapman, L.J., and Putnam, D.F., 2007. Physiography of Southern Ontario, Ontario Geological Survey, Miscellaneous Release – Data 228 | 2007 |
| Land Information Ontario (LIO), data produced by Golder Associates under licence from the Ministry of Natural Resources | 2014 |
| Aerial Photographs –Golder Library. | 1965, 1984, 1991 |
| GeoOttawa images, reviewed online. | 1976, 1999, 2009, 2014 |
| Fire Insurance Plan, Property Underwriters' Plans and Reports | FIP – none PURs – none PUPs – none |
| City Directories, obtained by Ecolog ERIS on behalf of Golder. | 1992, 1996/97, 2001/02, 2006/07, 2011 |
| EcoLog Environmental Risk Information Services | November 15, 2016 |



9.0 LIMITATIONS AND USE OF REPORT

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

The scope and the period of Golder’s assessment are described in this Report, and are subject to restrictions, assumptions and limitations. Except as noted herein, the work was conducted in accordance with the scope of work and terms and conditions of Golder’s proposal. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the Site referenced in the Report. Conditions may therefore exist which were not detected given the limited nature of the assessment Golder was retained to undertake with respect to the Site and additional environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in the Report. Golder’s opinions are based upon information that existed at the time of the writing of the Report. It is understood that the services provided for in the scope of work allowed Golder to form no more than an opinion of the actual conditions at the Site at the time the Site was visited, and cannot be used to assess the effect of any subsequent changes in any laws, regulations, the environmental quality of the Site or its surroundings. Asbestos and mould surveys were not performed. If a service is not expressly indicated, do not assume it has been provided.

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



10.0 CLOSURE

The Qualified Person confirms that the Phase One ESA was conducted and/or supervised by the Qualified Person and that all findings and conclusions of the Phase One ESA are included in the report.

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

Yours truly,

GOLDER ASSOCIATES LTD.

James Doyle, B.Eng., M.A.Sc.
Environmental Engineer

Keith Holmes, M.Sc., P.Geo., PMP
Associate, Geoscientist

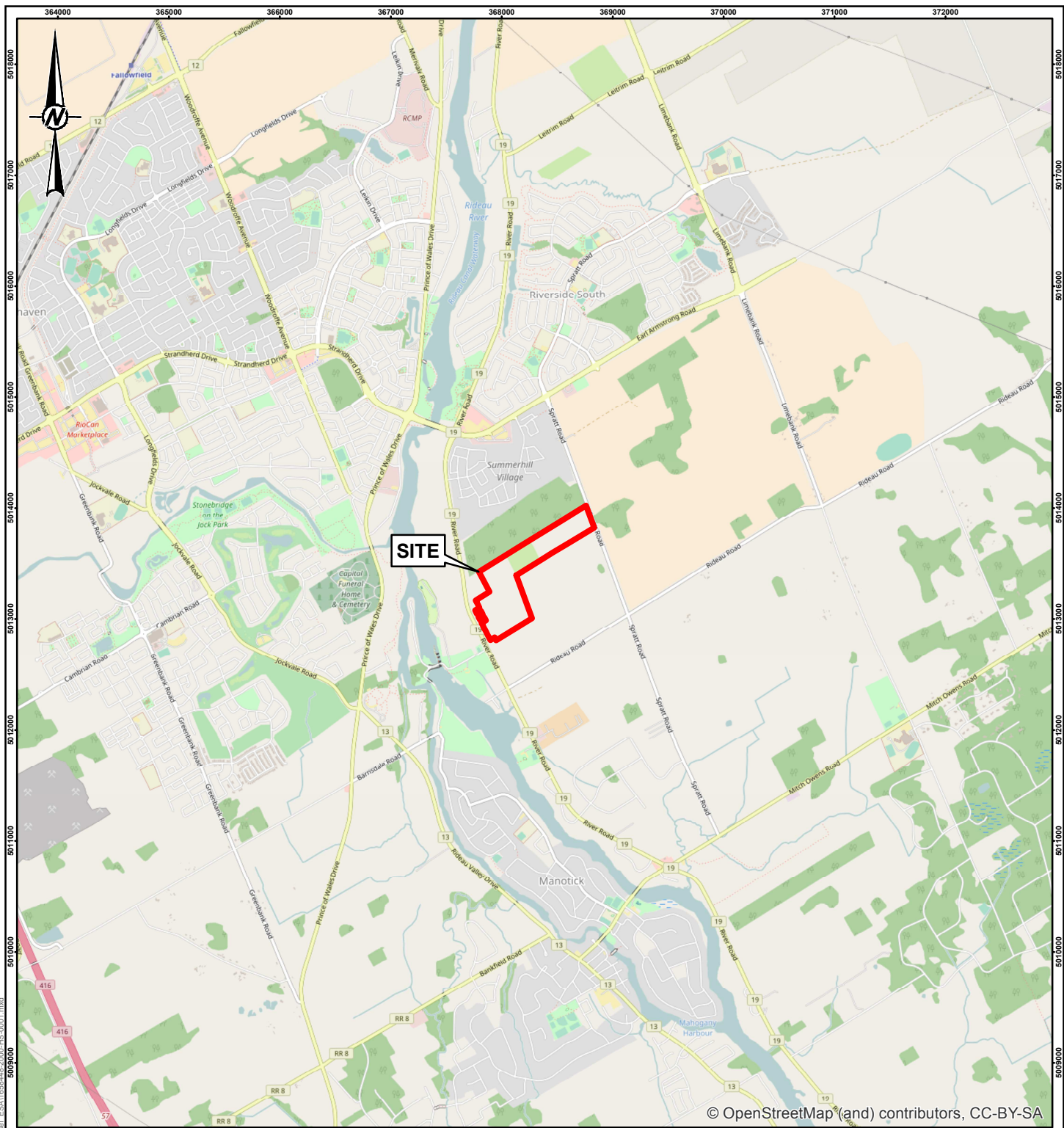
JD/KPH/md

\\golder.gds\gal\ottawa\active\2016\3 proj\1658448 claridge riverside south lands ottawa\08_reports\phase i esa\claridge riverside south phase i esa_final.docx

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.



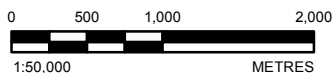
FIGURES



© OpenStreetMap (and) contributors, CC-BY-SA

LEGEND

 PHASE ONE SITE



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO**

TITLE
KEY PLAN

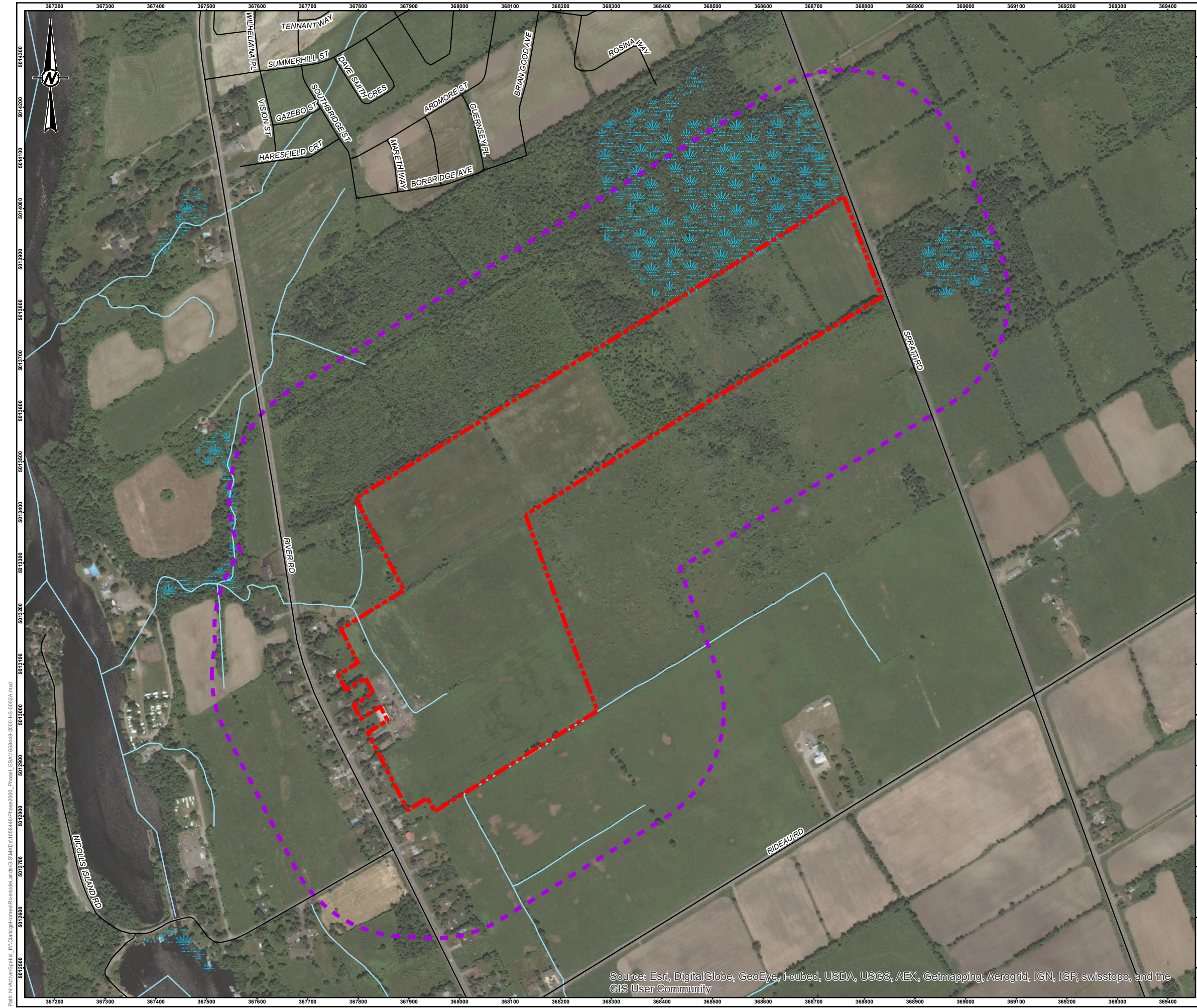
| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| | DESIGNED | ---- |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |



| | | | |
|------------------------|---------------|-----------|--------------------|
| PROJECT NO. 1658448 | PHASE 2000 | REV. 0 | FIGURE 1 |
|------------------------|---------------|-----------|--------------------|

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

Path: N:\Active\Spatial_Img\ClaridgeHomes\RiversideSouth\GIS\MXD\1658448\Phase2000_Phase1_ESA\1658448-2000-165-0001.mxd



LEGEND

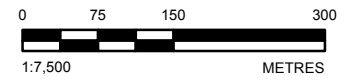
- ROADWAY
- WATERCOURSE
- WETLAND
- PHASE ONE SITE
- PHASE ONE STUDY AREA

NOTE(S)

- THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)

- LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
- PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
OTTAWA, ONTARIO

TITLE
SITE PLAN

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| DESIGNED | --- | |
| PREPARED | JEM | |
| REVIEWED | KPH | |
| APPROVED | KPH | |

PROJECT NO. 1658448 PHASE 2000 REV. 0 FIGURE 2A

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Path: N:\Active\Spatial_Markup\Projects\Riverside\GIS\ESRI\1658448-2000_Phase1\1658448-2000_HE_0022A.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 26mm



LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

- ON-SITE SOIL AND GROUNDWATER (PCA #28, #30, #48, #58)

POTENTIALLY CONTAMINATING ACTIVITIES

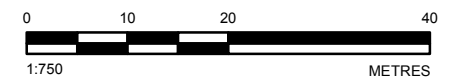
- (A) #30: IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
- (B) #28: GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
- (C) #48: SALT BULK STORAGE
- (D) #58: WASTE DISPOSAL AND WASTE MANAGEMENT INCLUDING THERMAL TREATMENT

NOTE(S)

1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)

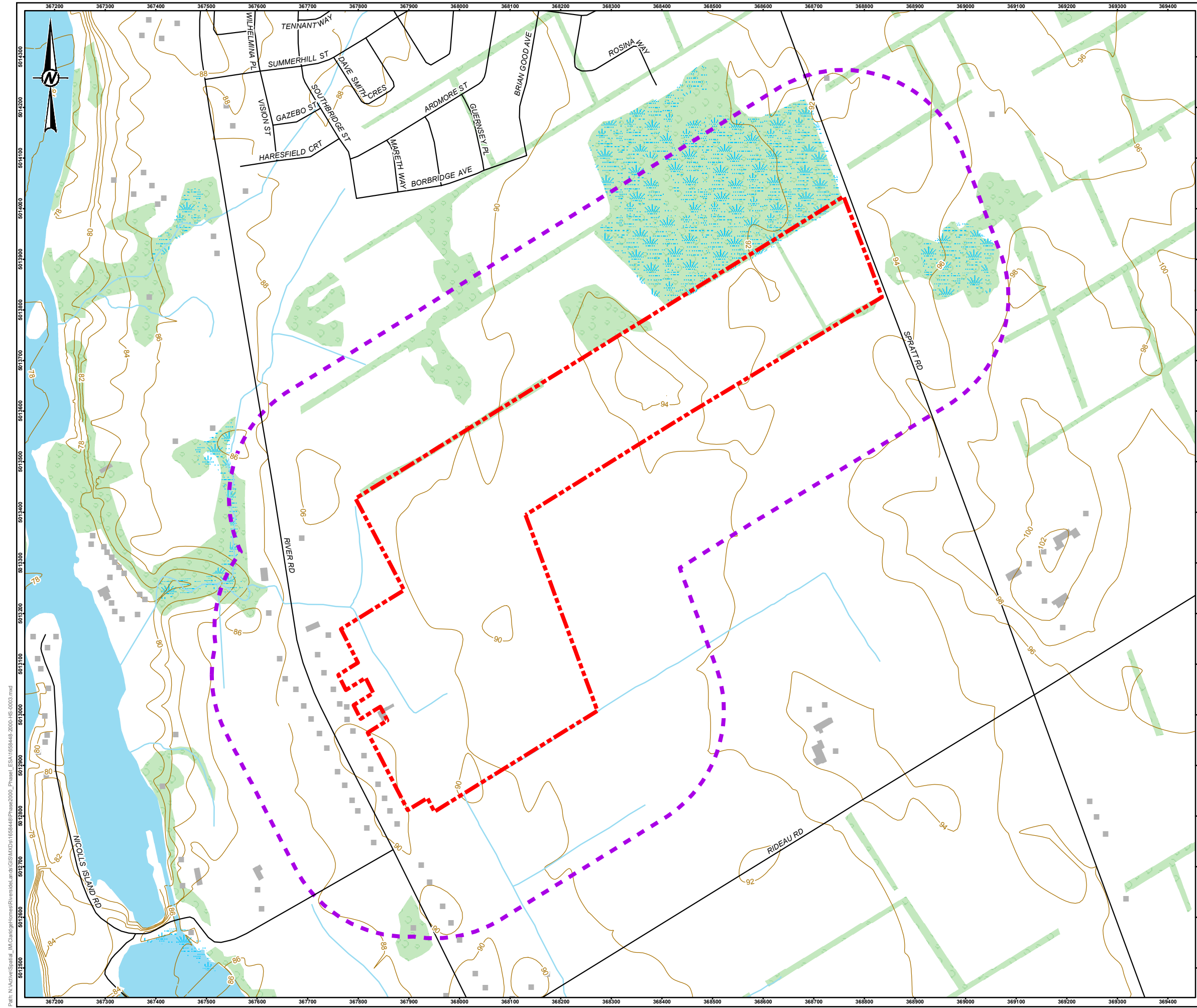
1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



| | | |
|--|--------------|---------------|
| CLIENT | | |
| CLARIDGE HOMES CORPORATION | | |
| PROJECT | | |
| PHASE ONE ENVIRONMENTAL SITE ASSESSMENT RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD OTTAWA, ONTARIO | | |
| TITLE | | |
| POTENTIALLY CONTAMINATING ACTIVITIES AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN | | |
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
|  | DESIGNED | JTD |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |
| PROJECT NO. | PHASE | REV. |
| 1658448 | 2000 | 0 |
| | | FIGURE |
| | | 2B |

Path: N:\Vector\Spatial_JMC\ClaridgeHomes\RiversideSouthLands\GIS\1658448\Phase2000_Phase1_ESA\1658448-2000-165-0002B.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 26mm

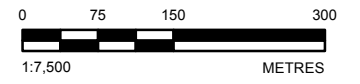


LEGEND

- BUILDING POINT
- TOPOGRAPHIC CONTOUR, metres
- ROADWAY
- WATERCOURSE
- ▨ WETLAND
- WATERBODY
- WOODED AREA
- BUILDING FOOTPRINT
- ▭ PHASE ONE SITE
- ▭ PHASE ONE STUDY AREA

NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
CLARIDGE HOMES CORPORATION

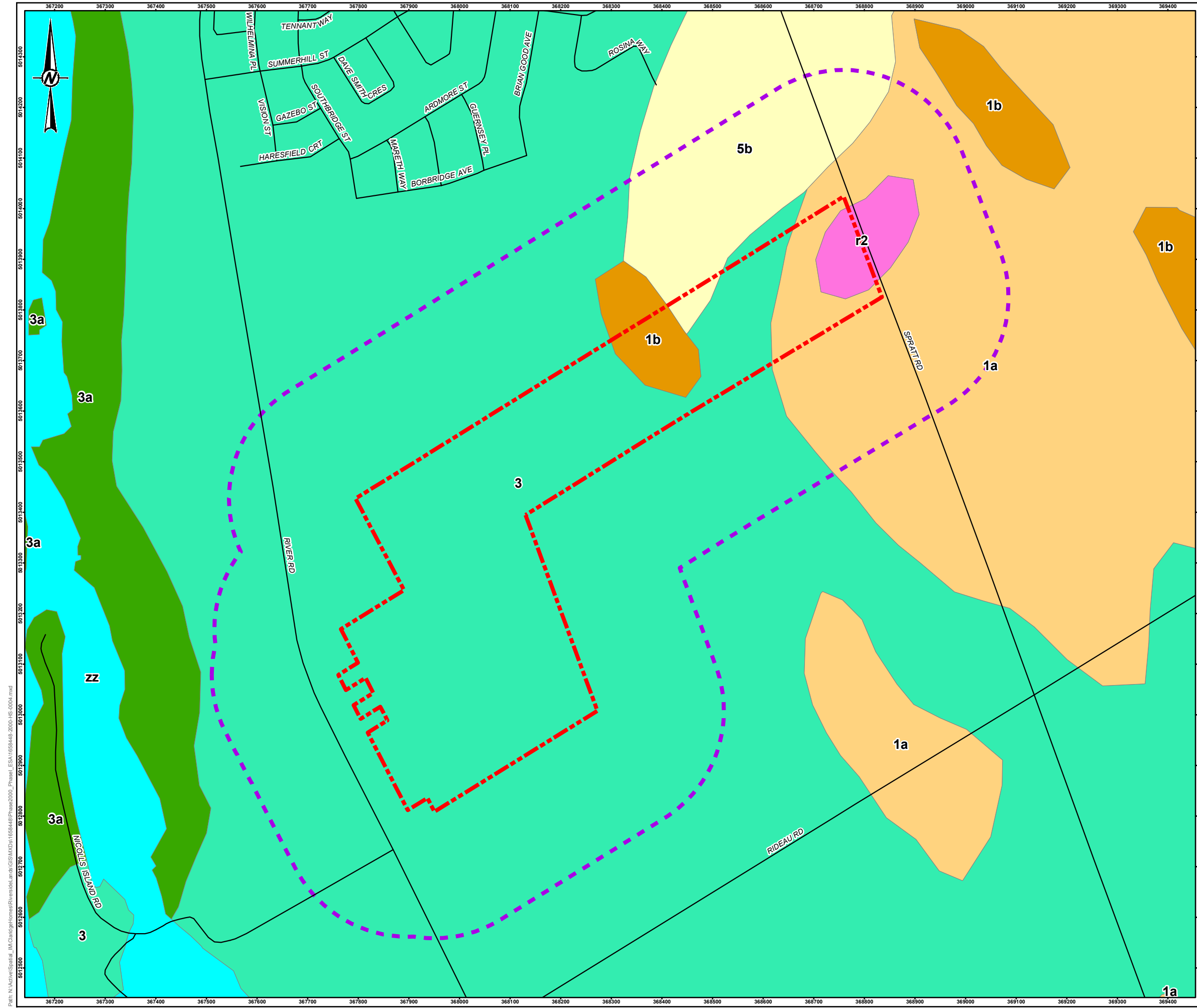
PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO**

TITLE
TOPOGRAPHIC MAP AND AREAS OF NATURAL SIGNIFICANCE

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| | DESIGNED | --- |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |

| | | | |
|------------------------|---------------|-----------|--------------------|
| PROJECT NO. 1658448 | PHASE 2000 | REV. 0 | FIGURE 3 |
|------------------------|---------------|-----------|--------------------|

Path: N:\Active\Spatial_JMC\ClaridgeHomes\RiversideSouthLands\ESAs\1658448-2000\HE-0002.mxd
 If this measurement does not match what is shown, the sheet size has been modified from: 28mm

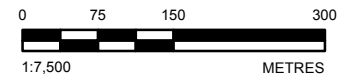


LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- 5b: NEARSHORE SEDIMENTS: FINE TO MEDIUM GRAINED SAND
- 3. OFFSHORE MARINE DEPOSITS: CLAY, SILTY CLAY & SILT
- 3a. OFFSHORE MARINE DEPOSITS: CLAY, SILT UNDERLYING EROSIONAL TERRACES
- 1a. TILL, PLAIN WITH LOCAL RELIEF <5 m
- 1b. TILL, DRUMLINIZED
- r2. BEDROCK: LIMESTONE, DOLOMITE, SANDSTONE & LOCAL SHALE
- zz. WATERBODY

NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. BELANGER, 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
 3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
 CLARIDGE HOMES CORPORATION

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO

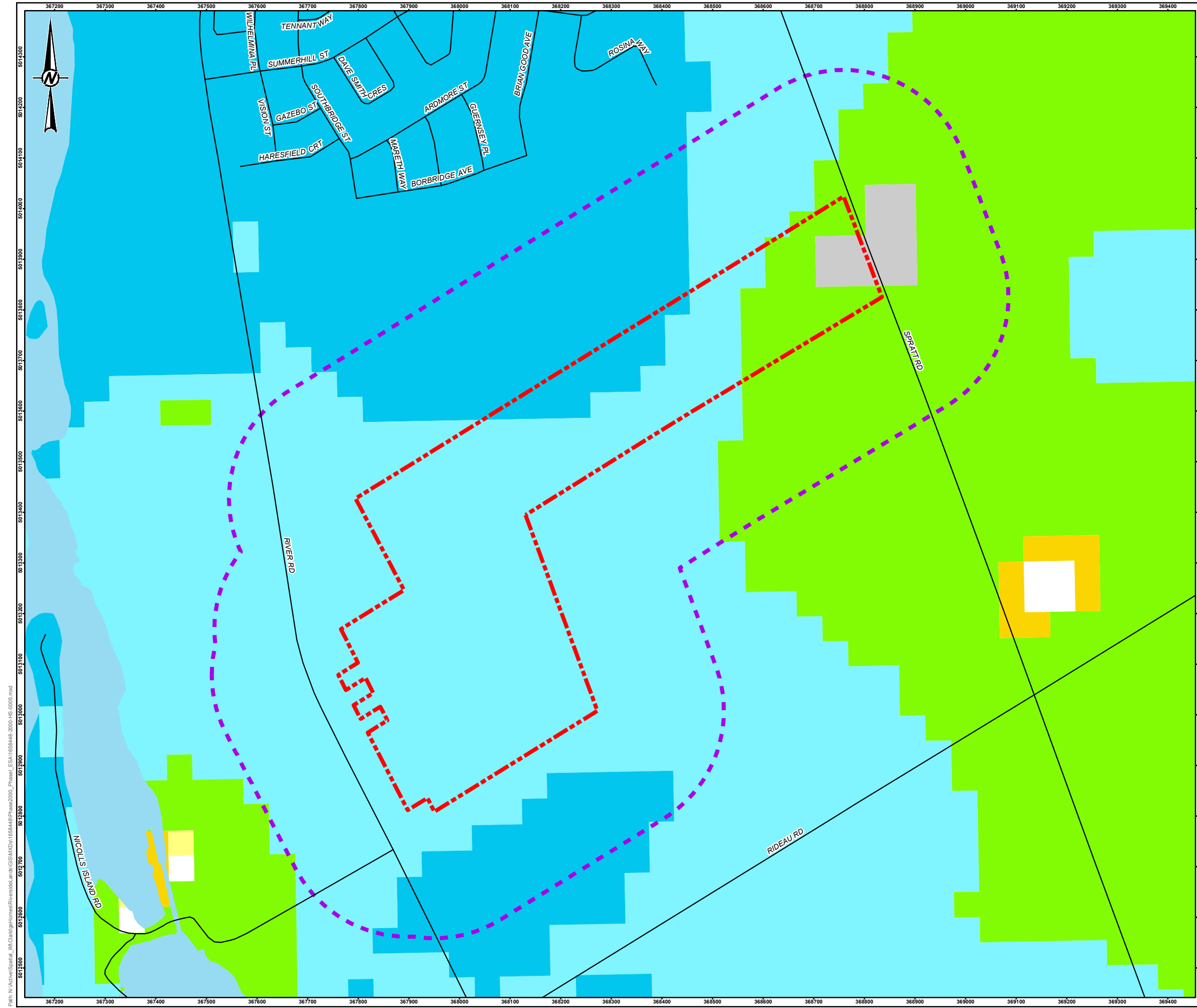
TITLE
SURFICIAL GEOLOGY

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| | DESIGNED | --- |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |

| | | | |
|-------------|-------|------|----------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 1658448 | 2000 | 0 | 4 |

Path: N:\Active\Spatial - MC\ClaridgeHomes\RiversideSouthLands\GIS\ESRI\MapXpress\2000_Phase1\ESRI\1658448-2000_1658448.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 28mm



LEGEND

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

TREND IN DEPTH TO BEDROCK (METRES)

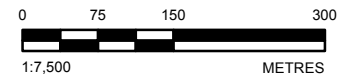
- 0 to 1
- 1 to 2
- 2 to 3
- 3 to 5
- 5 to 10
- 10 to 15
- 15 to 25
- 25 to 50
- 50 to 100
- 100 to 200

NOTE(S)

- THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)

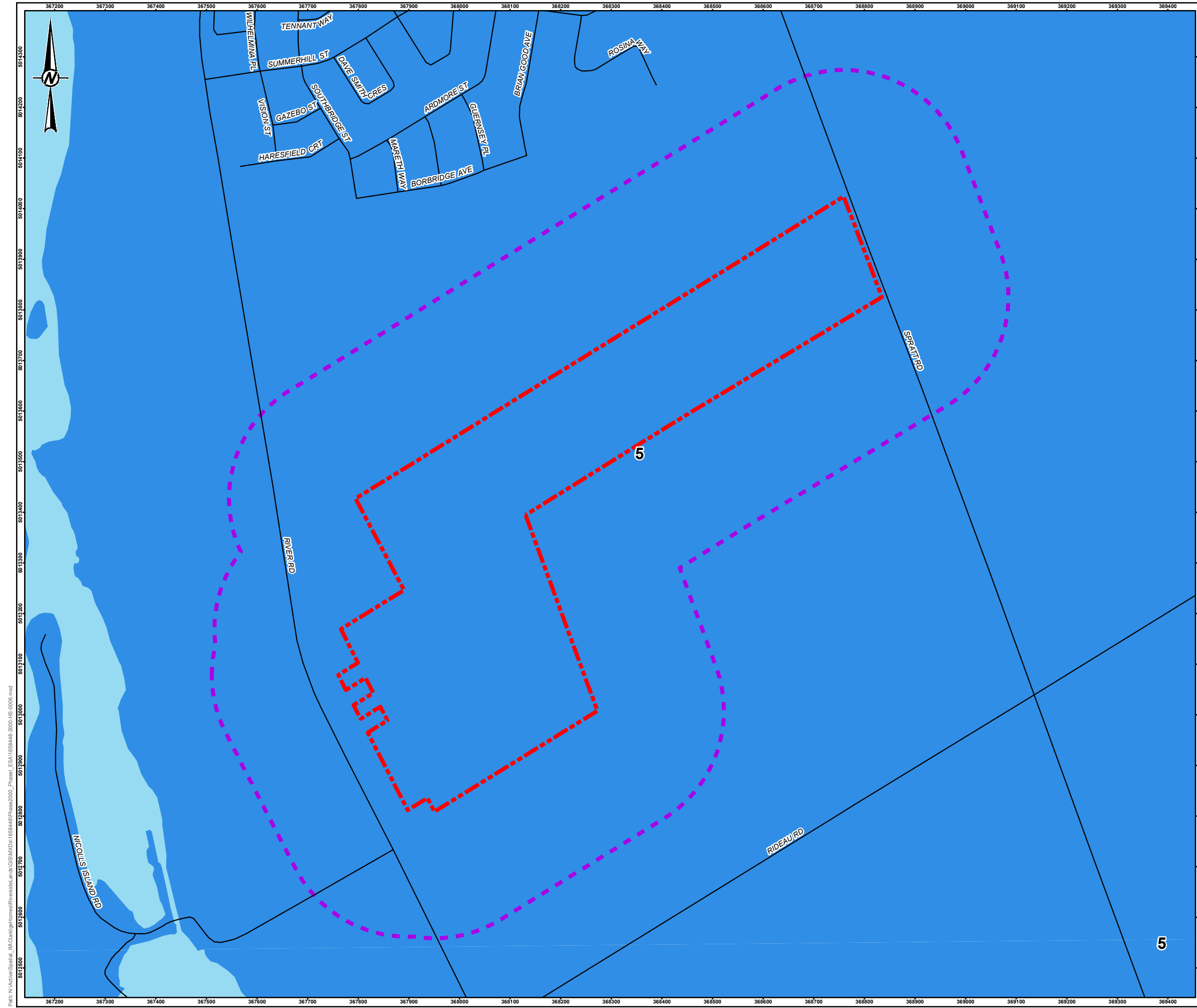
- 2010 BÉLANGER, J. R., URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE D3256, 2001
- LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
- PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



| | |
|--|-----------------------|
| CLIENT | |
| CLARIDGE HOMES CORPORATION | |
| PROJECT | |
| PHASE ONE ENVIRONMENTAL SITE ASSESSMENT RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD OTTAWA, ONTARIO | |
| TITLE | |
| DRIFT THICKNESS | |
| CONSULTANT | YYYY-MM-DD 2016-11-14 |
| DESIGNED | --- |
| PREPARED | JEM |
| REVIEWED | KPH |
| APPROVED | KPH |
| PROJECT NO. | PHASE |
| 1658448 | 2000 |
| REV. | FIGURE |
| 0 | 5 |

Path: N:\Active\Spatial - JMC\ClaridgeHomes\Riverside\GIS\ESRI\1658448\Phase2000_Phase1\ESA\1658448-2000_HE_0005.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 28mm

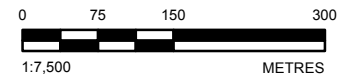


LEGEND

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

NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. ARMSTRONG, D.K. AND DODGE, J.E.P. 2007. PALEOZOIC GEOLOGY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE-DATA 219
 2. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 3. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO

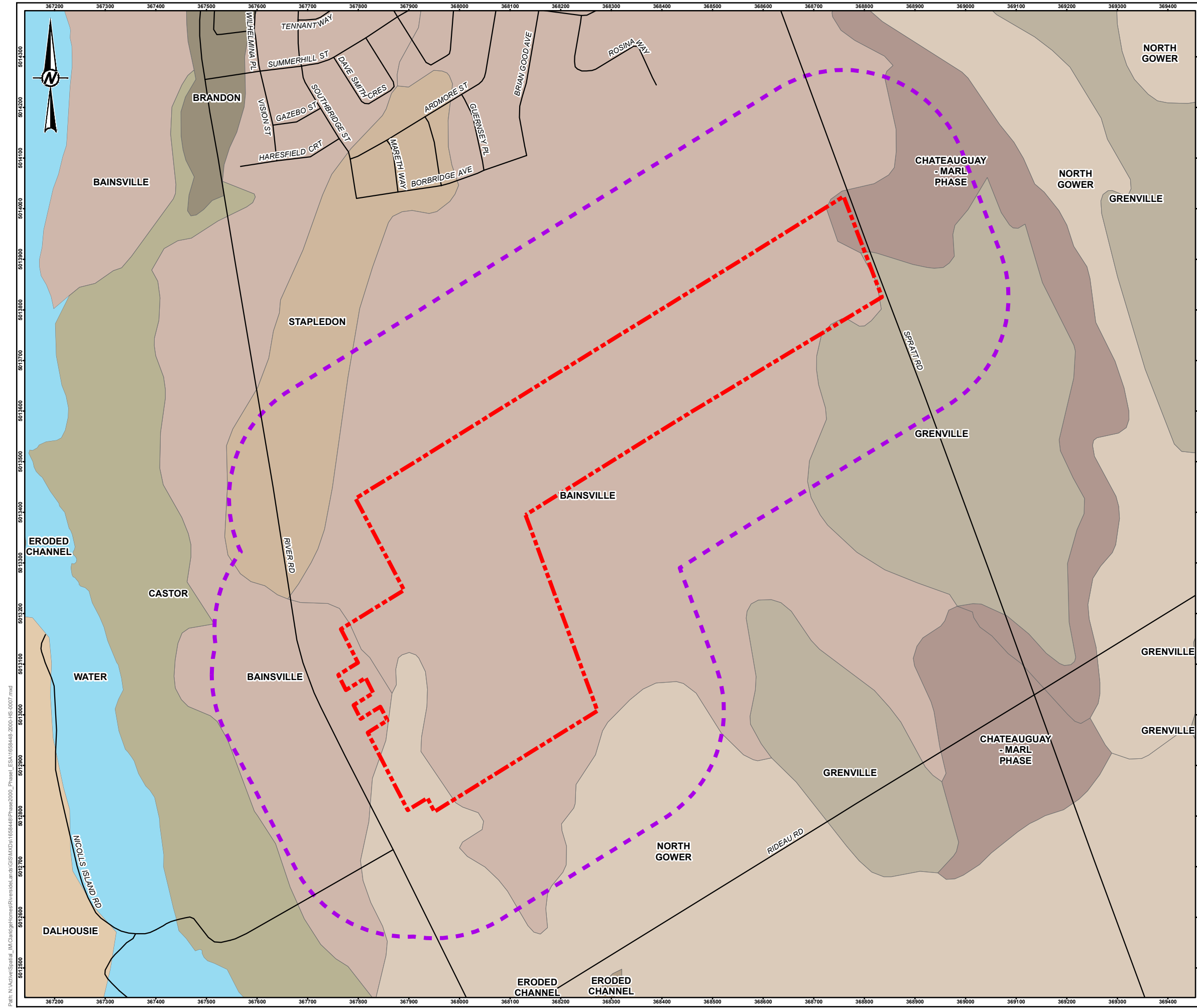
TITLE
BEDROCK GEOLOGY

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| | DESIGNED | --- |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |

| | | | |
|-------------|-------|------|----------|
| PROJECT NO. | PHASE | REV. | FIGURE |
| 1658448 | 2000 | 0 | 6 |

Path: N:\Active\Spatial_Marketing\Home\RiverSide\ark\GIS\1658448\Phase2000_Phase1\ESA\1658448-2000_HE_0000.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 28mm

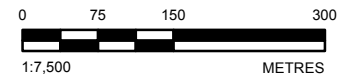


LEGEND

- ROADWAY
- PHASE ONE SITE
- PHASE ONE STUDY AREA
- WATERBODY
- BAINSVILLE
- BRANDON
- CARSONBY
- CASTOR
- CHATEAUGUAY - MARL PHASE
- DALHOUSIE
- ERODED CHANNEL
- GRENVILLE
- MOUNTAIN
- NORTH GOWER
- NOT MAPPED
- STAPLEDON
- STE. ROSALIE

NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD. UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES, © QUEENS PRINTER 2014
 2. PROJECTION: TRANSVERSE MERCATOR, DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
 CLARIDGE HOMES CORPORATION

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO

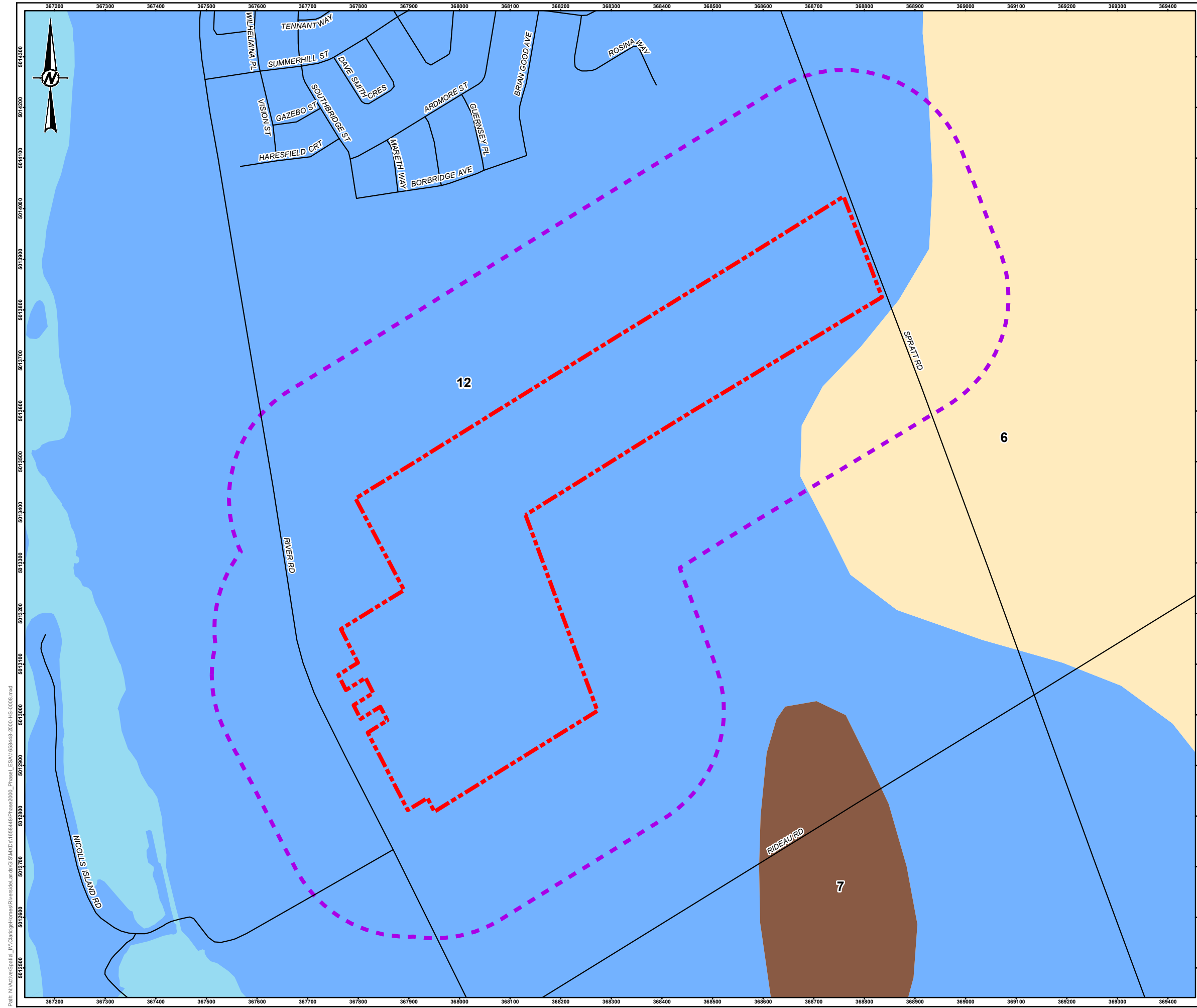
TITLE
 SOIL SURVEY COMPLEX (ONTARIO SOILS)

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| | DESIGNED | --- |
| | PREPARED | JEM |
| | REVIEWED | KPH |
| | APPROVED | KPH |

PROJECT NO. 1658448 PHASE 2000 REV. 0 FIGURE 7

Path: N:\Active\Spatial_Marketing\Home\RiverSide\ark\GIS\ESRI\1658448\Phase2000_Phase1\ESRI\1658448-2000_KE_0007.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 28mm

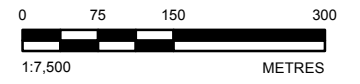


LEGEND

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

NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. CHAPMAN, L.J. AND PUTNAM, D.F. 2007. PHYSIOGRAPHY OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS 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: MTM ZONE 9, VERTICAL DATUM: CGVD28



CLIENT
 CLARIDGE HOMES CORPORATION

PROJECT
 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO

TITLE
PHYSIOGRAPHY MAP

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2016-11-14 |
| DESIGNED | --- | |
| PREPARED | JEM | |
| REVIEWED | KPH | |
| APPROVED | KPH | |

| | | | |
|------------------------|---------------|-----------|--------------------|
| PROJECT NO. 1658448 | PHASE 2000 | REV. 0 | FIGURE 8 |
|------------------------|---------------|-----------|--------------------|

Path: N:\Active\Spatial - JMC\ClaridgeHomes\RiversideSouth\GIS\ESRI\1658448-2000_Phase1\ESRI\1658448-2000_HE_0000.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 28mm



APPENDIX A

Historical Information

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



DATABASE REPORT

Project Property: *Claridge Riverside South Lands Proposed Development
807 River Rd
Ottawa ON
1658448*

Project No: *1658448*

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

Order No: *20161107019*

Requested by: *Golder Associates Ltd.*

Date Completed: *November 11, 2016*

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

www.erisinfo.com

Table of Contents

| | |
|--|----|
| Table of Contents..... | 2 |
| Executive Summary..... | 3 |
| Executive Summary: Report Summary..... | 4 |
| Executive Summary: Site Report Summary - Project Property..... | 6 |
| Executive Summary: Site Report Summary - Surrounding Properties..... | 7 |
| Executive Summary: Summary By Data Source..... | 9 |
| Map..... | 12 |
| Aerial..... | 13 |
| Detail Report..... | 14 |
| Unplottable Summary..... | 75 |
| Unplottable Report..... | 77 |
| Appendix: Database Descriptions..... | 85 |
| Definitions..... | 93 |

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by EcoLog Environmental Risk Information Services Ltd ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report(s) are protected by copyright owned by EcoLog ERIS Ltd. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property: *Claridge Riverside South Lands Proposed Development
807 River Rd Ottawa ON*

Project No: *1658448*

Order Information:

Order No: *20161107019*

Date Requested: *November 7, 2016*

Requested by: *Golder Associates Ltd.*

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

Additional Products:

City Directory Search *Subject Site plus 5 Adjacent Properties*

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Boundary to 0.25km</i> | <i>Total</i> |
|-----------------|--|-----------------|-------------------------|---------------------------|--------------|
| AAGR | <i>Abandoned Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AGR | <i>Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AMIS | <i>Abandoned Mine Information System</i> | Y | 0 | 0 | 0 |
| ANDR | <i>Anderson's Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| AUWR | <i>Automobile Wrecking & Supplies</i> | Y | 0 | 0 | 0 |
| BORE | <i>Borehole</i> | Y | 0 | 9 | 9 |
| CA | <i>Certificates of Approval</i> | Y | 0 | 0 | 0 |
| CFOT | <i>Commercial Fuel Oil Tanks</i> | Y | 0 | 0 | 0 |
| CHEM | <i>Chemical Register</i> | Y | 0 | 0 | 0 |
| COAL | <i>Inventory of Coal Gasification Plants and Coal Tar Sites</i> | Y | 0 | 0 | 0 |
| CONV | <i>Compliance and Convictions</i> | Y | 0 | 0 | 0 |
| CPU | <i>Certificates of Property Use</i> | Y | 0 | 0 | 0 |
| DRL | <i>Drill Hole Database</i> | Y | 0 | 0 | 0 |
| EASR | <i>Environmental Activity and Sector Registry</i> | Y | 0 | 0 | 0 |
| EBR | <i>Environmental Registry</i> | Y | 0 | 0 | 0 |
| ECA | <i>Environmental Compliance Approval</i> | Y | 0 | 0 | 0 |
| EEM | <i>Environmental Effects Monitoring</i> | Y | 0 | 0 | 0 |
| EHS | <i>ERIS Historical Searches</i> | Y | 0 | 3 | 3 |
| EIIS | <i>Environmental Issues Inventory System</i> | Y | 0 | 0 | 0 |
| EMHE | <i>Emergency Management Historical Event</i> | Y | 0 | 0 | 0 |
| EXP | <i>List of TSSA Expired Facilities</i> | Y | 0 | 0 | 0 |
| FCON | <i>Federal Convictions</i> | Y | 0 | 0 | 0 |
| FCS | <i>Contaminated Sites on Federal Land</i> | Y | 0 | 0 | 0 |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</i> | Y | 0 | 0 | 0 |
| FST | <i>Fuel Storage Tank</i> | Y | 0 | 0 | 0 |
| FSTH | <i>Fuel Storage Tank - Historic</i> | Y | 0 | 0 | 0 |
| GEN | <i>Ontario Regulation 347 Waste Generators Summary</i> | Y | 0 | 0 | 0 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | Y | 0 | 0 | 0 |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 0 | 0 |
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | Y | 0 | 0 | 0 |
| INC | <i>TSSA Incidents</i> | Y | 0 | 0 | 0 |
| LIMO | <i>Landfill Inventory Management Ontario</i> | Y | 0 | 0 | 0 |
| MINE | <i>Canadian Mine Locations</i> | Y | 0 | 0 | 0 |
| MNR | <i>Mineral Occurrences</i> | Y | 0 | 0 | 0 |
| NATE | <i>National Analysis of Trends in Emergencies System (NATES)</i> | Y | 0 | 0 | 0 |
| NCPL | <i>Non-Compliance Reports</i> | Y | 0 | 0 | 0 |

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Boundary to 0.25km</i> | <i>Total</i> |
|-----------------|--|-----------------|-------------------------|---------------------------|--------------|
| NDFT | <i>National Defense & Canadian Forces Fuel Tanks</i> | Y | 0 | 0 | 0 |
| NDSP | <i>National Defense & Canadian Forces Spills</i> | Y | 0 | 0 | 0 |
| NDWD | <i>National Defence & Canadian Forces Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| NEBW | <i>National Energy Board Wells</i> | Y | 0 | 0 | 0 |
| NEES | <i>National Environmental Emergencies System (NEES)</i> | Y | 0 | 0 | 0 |
| NPCB | <i>National PCB Inventory</i> | Y | 0 | 0 | 0 |
| NPRI | <i>National Pollutant Release Inventory</i> | Y | 0 | 0 | 0 |
| OGW | <i>Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OOGW | <i>Ontario Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OPCB | <i>Inventory of PCB Storage Sites</i> | Y | 0 | 0 | 0 |
| ORD | <i>Orders</i> | Y | 0 | 0 | 0 |
| PAP | <i>Canadian Pulp and Paper</i> | Y | 0 | 0 | 0 |
| PCFT | <i>Parks Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PES | <i>Pesticide Register</i> | Y | 0 | 1 | 1 |
| PINC | <i>TSSA Pipeline Incidents</i> | Y | 0 | 0 | 0 |
| PRT | <i>Private and Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PTTW | <i>Permit to Take Water</i> | Y | 0 | 0 | 0 |
| REC | <i>Ontario Regulation 347 Waste Receivers Summary</i> | Y | 0 | 0 | 0 |
| RSC | <i>Record of Site Condition</i> | Y | 0 | 0 | 0 |
| RST | <i>Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| SCT | <i>Scott's Manufacturing Directory</i> | Y | 0 | 0 | 0 |
| SPL | <i>Ontario Spills</i> | Y | 0 | 1 | 1 |
| SRDS | <i>Wastewater Discharger Registration Database</i> | Y | 0 | 0 | 0 |
| TANK | <i>Anderson's Storage Tanks</i> | Y | 0 | 0 | 0 |
| TCFT | <i>Transport Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| VAR | <i>TSSA Variances for Abandonment of Underground Storage Tanks</i> | Y | 0 | 0 | 0 |
| WDS | <i>Waste Disposal Sites - MOE CA Inventory</i> | Y | 0 | 0 | 0 |
| WDSH | <i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i> | Y | 0 | 0 | 0 |
| WWIS | <i>Water Well Information System</i> | Y | 0 | 25 | 25 |
| Total: | | | 0 | 39 | 39 |

Executive Summary: Site Report Summary - Project Property

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|--------------------------|----------------|---------------------|--------------------------|------------------------|
|--------------------|-----------|--------------------------|----------------|---------------------|--------------------------|------------------------|

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

Executive Summary: Site Report Summary - Surrounding Properties

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|---------------------------|---|---------------------|----------------------|--------------------|
| 1 | WWIS | | lot 24 ON | SSW/7.1 | -1.35 | 14 |
| 2 | SPL | | 821 River Rd, Manotick Ottawa ON | SSW/20.1 | -1.35 | 16 |
| 3 | PES | P.J.W. VAN ZYL & SONS LTD | R R 1 805 RIVER RD MANOTICK ON K4M 1B2 | SW/30.5 | -1.35 | 17 |
| 4 | WWIS | | lot 24 ON | SSW/31.3 | -1.35 | 17 |
| 5 | WWIS | | lot 24 ON | SW/33.2 | -1.35 | 19 |
| 6 | BORE | | ON | SW/36.7 | -1.35 | 21 |
| 6 | WWIS | | lot 24 ON | SW/36.7 | -1.35 | 21 |
| 7 | BORE | | ON | SSW/36.8 | -1.35 | 23 |
| 7 | WWIS | | lot 24 ON | SSW/36.8 | -1.35 | 24 |
| 8 | WWIS | | Ottawa ON | SSW/37.5 | -1.35 | 26 |
| 9 | WWIS | | lot 23 ON | W/43.9 | -3.37 | 28 |
| 10 | WWIS | | lot 24 ON | SSW/50.3 | -1.35 | 30 |
| 11 | WWIS | | lot 24 ON | SSW/62.9 | -1.35 | 33 |
| 12 | WWIS | | lot 24 ON | SSW/86.5 | -1.35 | 35 |
| 13 | WWIS | | lot 24 ON | SSW/94.5 | -1.35 | 37 |
| 13 | WWIS | | lot 24 ON | SSW/94.5 | -1.35 | 40 |
| 14 | WWIS | | lot 24 ON | SW/94.8 | -1.35 | 42 |
| 15 | BORE | | ON | SSW/98.1 | -1.35 | 44 |
| 15 | WWIS | | lot 24 ON | SSW/98.1 | -1.35 | 44 |
| 16 | BORE | | ON | WSW/98.2 | -1.35 | 47 |
| 16 | WWIS | | lot 24 ON | WSW/98.2 | -1.35 | 47 |
| 17 | WWIS | | lot 24 ON | SW/107.6 | -1.35 | 49 |
| 18 | WWIS | | lot 24 ON | SW/109.7 | -1.35 | 51 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------|---|---------------------|----------------------|--------------------|
| 19 | WWIS | | con A ON | S/125.9 | -1.35 | 53 |
| 20 | WWIS | | lot 23 ON | WSW/138.0 | -2.35 | 55 |
| 21 | BORE | | ON | S/150.0 | -1.35 | 58 |
| 21 | WWIS | | lot 25 ON | S/150.0 | -1.35 | 58 |
| 22 | WWIS | | lot 25 ON | S/169.9 | -1.35 | 61 |
| 23 | EHS | | 3704 Prince of Wales Dr. Ottawa ON | WNW/178.3 | -1.35 | 64 |
| 24 | EHS | | River Rd Earl Armstrong Rd Ottawa ON | N/182.0 | 0.65 | 64 |
| 25 | BORE | | ON | NNE/186.6 | 2.65 | 64 |
| 26 | BORE | | ON | W/188.0 | -2.99 | 65 |
| 26 | WWIS | | lot 23 ON | W/188.0 | -2.98 | 65 |
| 27 | WWIS | | lot 23 ON | WNW/199.9 | -3.14 | 67 |
| 28 | BORE | | ON | WNW/208.5 | -3.08 | 69 |
| 28 | WWIS | | lot 23 ON | WNW/208.5 | -3.08 | 70 |
| 29 | EHS | | Parcel A & B Ottawa ON | WSW/232.6 | -4.19 | 72 |
| 30 | BORE | | ON | S/241.7 | -1.35 | 72 |
| 30 | WWIS | | lot 25 ON | S/241.7 | -1.35 | 73 |

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 9 BORE site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|-----------------------|----------------------------|---------------------------|
| | ON | 36.7 | <u>6</u> |
| | ON | 36.8 | <u>7</u> |
| | ON | 98.1 | <u>15</u> |
| | ON | 98.2 | <u>16</u> |
| | ON | 150.0 | <u>21</u> |
| | ON | 186.6 | <u>25</u> |
| | ON | 188.0 | <u>26</u> |
| | ON | 208.5 | <u>28</u> |
| | ON | 241.7 | <u>30</u> |

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 3 EHS site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|---|----------------------------|---------------------------|
| | 3704 Prince of Wales Dr. Ottawa ON | 178.3 | <u>23</u> |
| | River Rd Earl Armstrong Rd Ottawa ON | 182.0 | <u>24</u> |
| | Parcel A & B Ottawa ON | 232.6 | <u>29</u> |

PES - Pesticide Register

A search of the PES database, dated 1988-Jun 2013 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------|---|---------------------|----------------|
| P.J.W. VAN ZYL & SONS LTD | R R 1 805 RIVER RD MANOTICK ON K4M 1B2 | 30.5 | <u>3</u> |

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2016 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

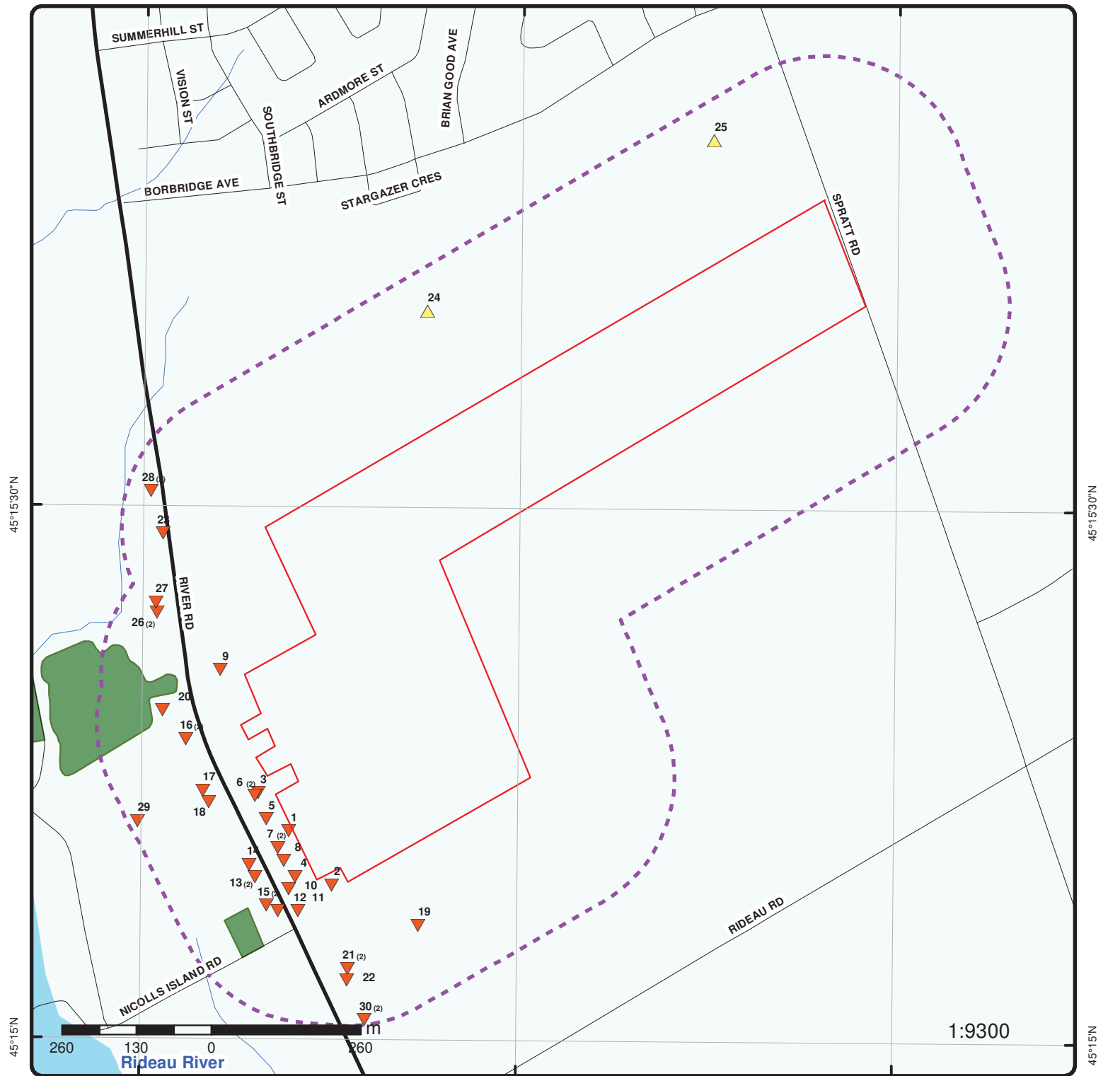
| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|-------------------------------------|---------------------|----------------|
| | 821 River Rd, Manotick Ottawa ON | 20.1 | <u>2</u> |

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 25 WWIS site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
| | lot 24 ON | 7.1 | <u>1</u> |
| | lot 24 ON | 31.3 | <u>4</u> |
| | lot 24 ON | 33.2 | <u>5</u> |
| | lot 24 ON | 36.7 | <u>6</u> |
| | lot 24 ON | 36.8 | <u>7</u> |
| | Ottawa ON | 37.5 | <u>8</u> |
| | lot 23 ON | 43.9 | <u>9</u> |
| | lot 24 ON | 50.3 | <u>10</u> |
| | lot 24 ON | 62.9 | <u>11</u> |
| | lot 24 ON | 86.5 | <u>12</u> |
| | lot 24 ON | 94.5 | <u>13</u> |
| | lot 24 ON | 94.5 | <u>13</u> |
| | lot 24 ON | 94.8 | <u>14</u> |
| | lot 24 ON | 98.1 | <u>15</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
| | lot 24 ON | 98.2 | <u>16</u> |
| | lot 24 ON | 107.6 | <u>17</u> |
| | lot 24 ON | 109.7 | <u>18</u> |
| | con A ON | 125.9 | <u>19</u> |
| | lot 23 ON | 138.0 | <u>20</u> |
| | lot 25 ON | 150.0 | <u>21</u> |
| | lot 25 ON | 169.9 | <u>22</u> |
| | lot 23 ON | 188.0 | <u>26</u> |
| | lot 23 ON | 199.9 | <u>27</u> |
| | lot 23 ON | 208.5 | <u>28</u> |
| | lot 25 ON | 241.7 | <u>30</u> |



Map : 0.25 Kilometer Radius

Address: 807 River Rd, Ottawa, ON
 Order No: 20161107019



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



Aerial

Address: 807 River Rd, Ottawa, ON

Source: ESRI World Imagery

Order No: 20161107019



© Ecolog ERIS Ltd

Detail Report

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|-------------------|--------------------------------|------------------|-------------------------|------|
| <u>1</u> | 1 of 1 | SSW/7.1 | 90.0 | lot 24 ON | WWIS |
| Well ID: | | 1517460 | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | | Domestic | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | | Water Supply | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | | GLOUCESTER TOWNSHIP | | UTM Reliability: | |
| County: | | OTTAWA-CARLETON | | | |
| Bore Hole Information | | | | | |
| -- | | | | | |
| Bore Hole ID: | | 10039335 | | | |
| DP2BR: | | 47 | | | |
| Code OB: | | r | | | |
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 21-AUG-80 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445329.8 | | | |
| North 83: | | 5011321 | | | |
| UTMRC: | | 4 | | | |
| UTMRC Description: | | margin of error : 30 m - 100 m | | | |
| Location Method: | | p4 | | | |
| Org CS: | | | | | |
| Elevation: | | 90.43 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | | | | |
| Formation ID: | | 931035222 | | | |
| Layer: | | 1 | | | |
| General Color: | | BROWN | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | PACKED | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | | | | |
| Formation ID: | | 931035223 | | | |
| Layer: | | 2 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | HARDPAN | | | |
| Other Materials: | | BOULDERS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Other Materials: | | | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 43 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931035224 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | GRAVEL | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 43 | | | |
| Formation End Depth: | | 47 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931035225 | | | |
| Layer: | | 4 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | FRACTURED | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 47 | | | |
| Formation End Depth: | | 53 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961517460 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10587905 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930068788 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 50 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930068789 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 53 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991517460 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 20 | | | |
| Final Level After Pumping: | | 25 | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> | <i>DB</i> |
|-------------------------------------|--------------------------|--------------------------------|----------------------|-------------|-----------|
| <i>Recommended Pump Depth:</i> | | 30 | | | |
| <i>Pumping Rate:</i> | | 50 | | | |
| <i>Flowing Rate:</i> | | | | | |
| <i>Recommended Pump Rate:</i> | | 5 | | | |
| <i>Levels UOM:</i> | | ft | | | |
| <i>Rate UOM:</i> | | GPM | | | |
| <i>Water State After Test Code:</i> | | | | | |
| <i>Water State After Test:</i> | | | | | |
| <i>Pumping Test Method:</i> | | 1 | | | |
| <i>Pumping Duration HR:</i> | | 1 | | | |
| <i>Pumping Duration MIN:</i> | | 0 | | | |
| <i>Flowing:</i> | | N | | | |
| -- | | -- | | | |
| <i>Draw Down & Recovery</i> | | | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934101995 | | | |
| <i>Pump Test ID:</i> | | 991517460 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 15 | | | |
| <i>Test Level:</i> | | 25 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934384228 | | | |
| <i>Pump Test ID:</i> | | 991517460 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 30 | | | |
| <i>Test Level:</i> | | 25 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934645307 | | | |
| <i>Pump Test ID:</i> | | 991517460 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 45 | | | |
| <i>Test Level:</i> | | 25 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934894581 | | | |
| <i>Pump Test ID:</i> | | 991517460 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 60 | | | |
| <i>Test Level:</i> | | 25 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| <i>Water Details</i> | | | | | |
| -- | | -- | | | |
| <i>Water ID:</i> | | 933473937 | | | |
| <i>Layer:</i> | | 1 | | | |
| <i>Kind Code:</i> | | 1 | | | |
| <i>Kind:</i> | | FRESH | | | |
| <i>Water Found Depth:</i> | | 52 | | | |
| <i>Water Found Depth UOM:</i> | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

[2](#)

1 of 1

SSW/20.1

90.0

821 River Rd, Manotick
Ottawa ON

SPL

Ref NO: 2405-6JVKQE
Contaminant Code:
Contaminant Name: FURNACE OIL
Contaminant Quantity:
Incident Cause:
Incident Dt: 12/8/2005
Incident Reason:

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|-------------------------------------|------------------|--|------|
| Incident Summary: | | Manotick: furnace oil leak to grnd. | | | |
| MOE Reported Dt: | | 12/8/2005 | | | |
| Environmental Impact: | | Possible | | | |
| Nature of Impact: | | Soil Contamination | | | |
| Receiving Medium: | | Land | | | |
| SAC Action Class: | | TSSA - Fuel Safety Branch | | | |
| Sector Source Type: | | Other | | | |
| Site Municipality: | | Ottawa | | | |
| <u>3</u> | 1 of 1 | SW/30.5 | 90.0 | P.J.W. VAN ZYL & SONS LTD R R 1 805 RIVER RD MANOTICK ON K4M 1B2 | PES |
| Licence No.: | | 02-01-03647-0 | | | |
| Licence Type: | | Operator | | | |
| <u>4</u> | 1 of 1 | SSW/31.3 | 90.0 | lot 24 ON | WWIS |
| Well ID: | | 1500344 | | Lot: | 024 |
| Construction Date: | | | | | |
| Primary Water Use: | | Domestic | | | |
| Sec. Water Use: | | | | | |
| Final Well Status: | | Water Supply | | | |
| Specific Capacity: | | | | | |
| Municipality: | | GLOUCESTER TOWNSHIP | | | |
| County: | | OTTAWA-CARLETON | | | |
| Bore Hole Information | | | | | |
| -- | | | | | |
| Bore Hole ID: | | 10022389 | | | |
| DP2BR: | | 38 | | | |
| Code OB: | | r | | | |
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 08-MAY-61 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445340.8 | | | |
| North 83: | | 5011242 | | | |
| UTMRC: | | 5 | | | |
| UTMRC Description: | | margin of error : 100 m - 300 m | | | |
| Location Method: | | p5 | | | |
| Org CS: | | | | | |
| Elevation: | | 91.01 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | | | | | |
| Formation ID: | | 930989020 | | | |
| Layer: | | 1 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 17 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989021 | | | |
| Layer: | | 2 | | | |
| General Color: | | | | | |
| Most Common Material: | | BOULDERS | | | |
| Other Materials: | | MEDIUM SAND | | | |
| Other Materials: | | GRAVEL | | | |
| Formation Top Depth: | | 17 | | | |
| Formation End Depth: | | 38 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989022 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 38 | | | |
| Formation End Depth: | | 58 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961500344 | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10570959 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930037711 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 42 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930037712 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 58 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991500344 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 16 | | | |
| Final Level After Pumping: | | 30 | | | |
| Recommended Pump Depth: | | 30 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Pumping Rate: | | 12 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 5 | | | | |
| Levels UOM: | ft | | | | |
| Rate UOM: | GPM | | | | |
| Water State After Test Code: | 1 | | | | |
| Water State After Test: | CLEAR | | | | |
| Pumping Test Method: | 1 | | | | |
| Pumping Duration HR: | 2 | | | | |
| Pumping Duration MIN: | 0 | | | | |
| Flowing: | N | | | | |
| -- | -- | | | | |
| Water Details | | | | | |
| -- | -- | | | | |
| Water ID: | 933452861 | | | | |
| Layer: | 1 | | | | |
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 58 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | | | | |
| -- | -- | | | | |

| <u>5</u> | 1 of 1 | SW/33.2 | 90.0 | lot 24 ON | WWIS |
|-------------------------------------|---------------------------------|---------|------|-------------------------|------|
| Well ID: | 1500342 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10022387 | | | | |
| DP2BR: | 45 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 24-JUL-59 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445290.8 | | | | |
| North 83: | 5011342 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.39 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 930989014 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | 1 | | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 31 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989015 | | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | STONES | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 31 | | | | |
| Formation End Depth: | 45 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989016 | | | | |
| Layer: | 3 | | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 45 | | | | |
| Formation End Depth: | 68 | | | | |
| 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 Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | 930037707 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | 45 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Casing ID: | 930037708 | | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | 68 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| | | 991500342 | | | |
| Pump Test ID: | | | | | |
| 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 | | | | |
| -- | -- | | | | |
| -- | -- | | | | |

| <u>6</u> | 1 of 2 | SW/36.7 | 90.0 | 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. |

| <u>6</u> | 2 of 2 | SW/36.7 | 90.0 | lot 24 ON | WWIS |
|---------------------------|---------------------|---------|------|-------------------------|------|
| Well ID: | 1500339 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|---------------------------------|-------------|-----------|
| Bore Hole Information | | | | | |
| -- | | -- | | | |
| Bore Hole ID: | | | 10022384 | | |
| DP2BR: | | | 37 | | |
| Code OB: | | | r | | |
| Code OB Description: | | | Bedrock | | |
| Open Hole: | | | | | |
| Date Completed: | | | 15-AUG-58 | | |
| Remarks: | | | | | |
| Zone: | | | 18 | | |
| East 83: | | | 445270.8 | | |
| North 83: | | | 5011382 | | |
| UTMRC: | | | 5 | | |
| UTMRC Description: | | | margin of error : 100 m - 300 m | | |
| Location Method: | | | p5 | | |
| Org CS: | | | | | |
| Elevation: | | | 90.37 | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | | 930989006 | | |
| Layer: | | | 1 | | |
| General Color: | | | | | |
| Most Common Material: | | | CLAY | | |
| Other Materials: | | | BOULDERS | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 0 | | |
| Formation End Depth: | | | 37 | | |
| Formation End Depth UOM: | | | ft | | |
| -- | | -- | | | |
| Formation ID: | | | 930989007 | | |
| Layer: | | | 2 | | |
| General Color: | | | | | |
| Most Common Material: | | | LIMESTONE | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 37 | | |
| Formation End Depth: | | | 50 | | |
| 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 Number: | | | 1 | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037701 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 39 | | | |
| Casing Diameter: | | 4 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037702 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 50 | | | |
| Casing Diameter: | | 4 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| 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 | | | |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |

7

1 of 2

SSW/36.8

90.0

ON

BORE

| | | | |
|--------------------------------|----------|-----------------------------|----------|
| Borehole ID: | 611974 | Type: | Borehole |
| Use: | | Status: | |
| Drill Method: | | UTM Zone: | 18 |
| Easting: | 445311 | Northing: | 5011292 |
| Location Accuracy: | | Orig. Ground Elev m: | 89.6 |
| Elev. Reliability Note: | | DEM Ground Elev m: | 90.8 |
| Total Depth m: | 18.9 | Primary Name: | |
| Township: | | Concession: | |
| Lot: | | Municipality: | |
| Completion Date: | NOV-1964 | Static Water Level: | -999.9 |
| Primary Water Use: | | Sec. Water Use: | |

--- Details ---

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------|-------------------|----------------------------|------------------|----------------------|---|
| Stratum ID: | 218389706 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 6.1 | | | Stratum Desc: | CLAY. |
| + | | | | | |
| Stratum ID: | 218389707 | | | Top Depth(m): | 6.1 |
| Bottom Depth(m): | 10.4 | | | Stratum Desc: | SAND,BOULDERS. |
| + | | | | | |
| Stratum ID: | 218389708 | | | Top Depth(m): | 10.4 |
| Bottom Depth(m): | 18.9 | | | Stratum Desc: | LIMESTONE. 00060IFIED. SEISMIC VELOCITY = 6600. BEDROCK. SEISMIC VELOCITY = 17000. BEDROC |

| <u>7</u> | 2 of 2 | SSW/36.8 | 90.0 | lot 24 ON | WWIS |
|-------------------------------------|---------------------------------|----------|------|-------------------------|------|
| Well ID: | 1500348 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10022393 | | | | |
| DP2BR: | 34 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 27-NOV-64 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445310.8 | | | | |
| North 83: | 5011292 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.79 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 930989031 | | | | |
| Layer: | 1 | | | | |
| General Color: | | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 20 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989032 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | | MEDIUM SAND | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 20 | | | | |
| Formation End Depth: | 34 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989033 | | | | |
| Layer: | 3 | | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 34 | | | | |
| Formation End Depth: | 62 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Method of Construction & Well Use | | | | | |
| -- | -- | | | | |
| Method Construction ID: | 961500348 | | | | |
| Method Construction Code: | 1 | | | | |
| Method Construction: | Cable Tool | | | | |
| Other Method Construction: | | | | | |
| -- | -- | | | | |
| Pipe Information | | | | | |
| -- | -- | | | | |
| Pipe ID: | 10570963 | | | | |
| Casing Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | 930037719 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | STEEL | | | | |
| Depth From: | | | | | |
| Depth To: | 37 | | | | |
| Casing Diameter: | 5 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Casing ID: | 930037720 | | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | OPEN HOLE | | | | |
| Depth From: | | | | | |
| Depth To: | 62 | | | | |
| Casing Diameter: | 5 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |
| Pump Test ID: | 991500348 | | | | |
| Pump Set At: | | | | | |
| Static Level: | 24 | | | | |
| Final Level After Pumping: | 25 | | | | |
| Recommended Pump Depth: | 50 | | | | |
| Pumping Rate: | 10 | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 5 | | | | |
| Levels UOM: | ft | | | | |
| Rate UOM: | GPM | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Water State After Test Code: | 2 | | | | |
| Water State After Test: | | CLOUDY | | | |
| Pumping Test Method: | 1 | | | | |
| Pumping Duration HR: | 1 | | | | |
| Pumping Duration MIN: | 0 | | | | |
| Flowing: | N | | | | |
| -- | -- | | | | |
| Water Details | | | | | |
| -- | -- | | | | |
| Water ID: | 933452865 | | | | |
| Layer: | 1 | | | | |
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 60 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | | | | |
| -- | -- | | | | |

| <u>8</u> | 1 of 1 | SSW/37.5 | 90.0 | Ottawa ON | WWIS |
|-------------------------------------|--------------------------------|----------|------|-------------------------|------|
| Well ID: | 7196225 | | | Lot: | |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | | | | Concession Name: | |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 1004245372 | | | | |
| DP2BR: | | | | | |
| Code OB: | | | | | |
| Code OB Description: | | | | | |
| Open Hole: | | | | | |
| Date Completed: | 30-JUN-12 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445321 | | | | |
| North 83: | 5011269 | | | | |
| UTMRC: | 4 | | | | |
| UTMRC Description: | margin of error : 30 m - 100 m | | | | |
| Location Method: | wwr | | | | |
| Org CS: | UTM83 | | | | |
| Elevation: | | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 1004782127 | | | | |
| Layer: | | | | | |
| General Color: | | | | | |
| Most Common Material: | | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation Top Depth: | | | | | |
| Formation End Depth: | | | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Annular Space/Abandonment Sealing Record | | | | | |
| -- | | -- | | | |
| Plug ID: | | 1004782133 | | | |
| Layer: | | 1 | | | |
| Plug From: | | | | | |
| Plug To: | | | | | |
| Plug Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Plug ID: | | 1004782134 | | | |
| Layer: | | 2 | | | |
| Plug From: | | | | | |
| Plug To: | | | | | |
| Plug Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 1004782132 | | | |
| Method Construction Code: | | | | | |
| Method Construction: | | | | | |
| Other Method Construction: | | WELL EXTENSION | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 1004782126 | | | |
| Casing Number: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 1004782130 | | | |
| Layer: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| Construction Record - Screen | | | | | |
| -- | | -- | | | |
| Screen ID: | | 1004782131 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | | | | |
| -- | | -- | | | |
| Hole Diameter | | | | | |
| -- | | -- | | | |
| Hole ID: | | 1004782128 | | | |
| Diameter: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------------|----------------------------|------------------|-------------------------|------|
| -- | -- | -- | -- | -- | -- |
| <u>9</u> | 1 of 1 | W/43.9 | 88.0 | lot 23 ON | WWIS |
| Well ID: | 1516805 | | | Lot: | 023 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | -- | -- | -- | -- |
| Bore Hole ID: | 10038700 | | | | |
| DP2BR: | 43 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 24-OCT-78 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445210.8 | | | | |
| North 83: | 5011602 | | | | |
| UTMRC: | 4 | | | | |
| UTMRC Description: | margin of error : 30 m - 100 m | | | | |
| Location Method: | p4 | | | | |
| Org CS: | | | | | |
| Elevation: | 88.08 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | 931033218 | | | | |
| Layer: | 1 | | | | |
| General Color: | GREY | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 43 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | 931033219 | | | | |
| Layer: | 2 | | | | |
| General Color: | GREY | | | | |
| Most Common Material: | LIMESTONE | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 43 | | | | |
| Formation End Depth: | 84 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | -- | -- | -- | -- |
| Method of Construction & Well | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> | <i>DB</i> |
|-------------------------------------|--------------------------|--------------------------------|----------------------|-------------|-----------|
| Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961516805 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10587270 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930067942 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 45 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| 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 | | | |
| Pump Test ID: | | 991516805 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 40 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| Pump Test Detail ID: | | 934381536 | | | |
| Pump Test ID: | | 991516805 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 40 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| Pump Test Detail ID: | | 934643043 | | | |
| Pump Test ID: | | 991516805 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 40 | | | |
| Test Level UOM: | | ft | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------|-------------------|----------------------------|------------------|------|----|
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934900527 | | | |
| Pump Test ID: | | 991516805 | | | |
| 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 | | | |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |

| <u>10</u> | 1 of 1 | SSW/50.3 | 90.0 | lot 24 ON | WWIS |
|--|--------------------------------|----------|------|-------------------------|------|
| Well ID: | 1517927 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | -- | -- | -- | -- |
| Bore Hole ID: | 10039798 | | | | |
| DP2BR: | 46 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 11-AUG-82 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445329.8 | | | | |
| North 83: | 5011221 | | | | |
| UTMRC: | 4 | | | | |
| UTMRC Description: | margin of error : 30 m - 100 m | | | | |
| Location Method: | p4 | | | | |
| Org CS: | | | | | |
| Elevation: | 91.27 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | 931036774 | | | | |
| Layer: | 1 | | | | |
| General Color: | RED | | | | |
| Most Common Material: | SAND | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Other Materials: | | PACKED | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 5 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931036775 | | | |
| Layer: | | 2 | | | |
| General Color: | | BROWN | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | PACKED | | | |
| Formation Top Depth: | | 5 | | | |
| Formation End Depth: | | 20 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931036776 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | HARDPAN | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | GRAVEL | | | |
| Formation Top Depth: | | 20 | | | |
| Formation End Depth: | | 46 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931036777 | | | |
| Layer: | | 4 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | MEDIUM-GRAINED | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 46 | | | |
| Formation End Depth: | | 60 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961517927 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10588368 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930069501 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 49 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930069502 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> | <i>DB</i> |
|-------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Depth To:</i> | | 60 | | | |
| <i>Casing Diameter:</i> | | 6 | | | |
| <i>Casing Diameter UOM:</i> | | inch | | | |
| <i>Casing Depth UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Well Yield Testing</i> | | | | | |
| -- | | -- | | | |
| <i>Pump Test ID:</i> | | 991517927 | | | |
| <i>Pump Set At:</i> | | | | | |
| <i>Static Level:</i> | | 19 | | | |
| <i>Final Level After Pumping:</i> | | 35 | | | |
| <i>Recommended Pump Depth:</i> | | 40 | | | |
| <i>Pumping Rate:</i> | | 8 | | | |
| <i>Flowing Rate:</i> | | | | | |
| <i>Recommended Pump Rate:</i> | | 5 | | | |
| <i>Levels UOM:</i> | | ft | | | |
| <i>Rate UOM:</i> | | GPM | | | |
| <i>Water State After Test Code:</i> | | 1 | | | |
| <i>Water State After Test:</i> | | CLEAR | | | |
| <i>Pumping Test Method:</i> | | 1 | | | |
| <i>Pumping Duration HR:</i> | | 1 | | | |
| <i>Pumping Duration MIN:</i> | | 0 | | | |
| <i>Flowing:</i> | | N | | | |
| -- | | -- | | | |
| <i>Draw Down & Recovery</i> | | | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934103117 | | | |
| <i>Pump Test ID:</i> | | 991517927 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 15 | | | |
| <i>Test Level:</i> | | 35 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934377167 | | | |
| <i>Pump Test ID:</i> | | 991517927 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 30 | | | |
| <i>Test Level:</i> | | 35 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934647002 | | | |
| <i>Pump Test ID:</i> | | 991517927 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 45 | | | |
| <i>Test Level:</i> | | 35 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934896694 | | | |
| <i>Pump Test ID:</i> | | 991517927 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 60 | | | |
| <i>Test Level:</i> | | 35 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| <i>Water Details</i> | | | | | |
| -- | | -- | | | |
| <i>Water ID:</i> | | 933474524 | | | |
| <i>Layer:</i> | | 1 | | | |
| <i>Kind Code:</i> | | 1 | | | |
| <i>Kind:</i> | | FRESH | | | |
| <i>Water Found Depth:</i> | | 50 | | | |
| <i>Water Found Depth UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Water ID:</i> | | 933474525 | | | |
| <i>Layer:</i> | | 2 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------------|----------------------------|------------------|-------------------------|-------------|
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 56 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | | | | |
| -- | -- | | | | |
| 11 | 1 of 1 | SSW/62.9 | 90.0 | lot 24 ON | WWIS |
| Well ID: | 1513667 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10035650 | | | | |
| DP2BR: | 48 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 26-NOV-73 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445345.8 | | | | |
| North 83: | 5011182 | | | | |
| UTMRC: | 6 | | | | |
| UTMRC Description: | margin of error : 300 m - 1 km | | | | |
| Location Method: | p6 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.52 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 931024128 | | | | |
| Layer: | 1 | | | | |
| General Color: | BROWN | | | | |
| Most Common Material: | SAND | | | | |
| Other Materials: | BOULDERS | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 10 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 931024129 | | | | |
| Layer: | 2 | | | | |
| General Color: | GREY | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | SAND | | | | |
| Other Materials: | BOULDERS | | | | |
| Formation Top Depth: | 10 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation End Depth: | | 48 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931024130 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 48 | | | |
| Formation End Depth: | | 73 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961513667 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10584220 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930063065 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 51 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991513667 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 10 | | | |
| Final Level After Pumping: | | 35 | | | |
| 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: | | 934099463 | | | |
| Pump Test ID: | | 991513667 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------|-------------------|----------------------------|------------------|------|----|
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934379700 | | | |
| Pump Test ID: | | 991513667 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934640694 | | | |
| Pump Test ID: | | 991513667 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934898168 | | | |
| Pump Test ID: | | 991513667 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Water Details | | | | | |
| -- | -- | -- | -- | -- | -- |
| Water ID: | | 933469328 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 71 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |

[12](#)

1 of 1

SSW/86.5

90.0

lot 24
ON

WWIS

| | | | |
|---------------------------|---------------------|-------------------------|-----|
| Well ID: | 1510843 | Lot: | 024 |
| Construction Date: | | Concession: | |
| Primary Water Use: | Domestic | Concession Name: | BF |
| Sec. Water Use: | | Easting NAD83: | |
| Final Well Status: | Water Supply | Northing NAD83: | |
| Specific Capacity: | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | |

Bore Hole Information

| | |
|-----------------------------|--------------------------------|
| -- | -- |
| Bore Hole ID: | 10032846 |
| DP2BR: | 39 |
| Code OB: | r |
| Code OB Description: | Bedrock |
| Open Hole: | |
| Date Completed: | 24-JUL-70 |
| Remarks: | |
| Zone: | 18 |
| East 83: | 445310.8 |
| North 83: | 5011182 |
| UTMRC: | 4 |
| UTMRC Description: | margin of error : 30 m - 100 m |
| Location Method: | p4 |
| Org CS: | |
| Elevation: | 90.63 |
| Elevrc: | |
| Elevrc Description: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Location Source Date:</i> | | | | | |
| <i>Source Revision Comment:</i> | | | | | |
| <i>Improvement Location Source:</i> | | | | | |
| <i>Improvement Location Method:</i> | | | | | |
| <i>Supplier Comment:</i> | | | | | |
| <i>Spatial Status:</i> | | | | | |
| -- | | | | | |
| <i>Overburden and Bedrock Materials Interval</i> | | | | | |
| -- | | | | | |
| <i>Formation ID:</i> 931015953 | | | | | |
| <i>Layer:</i> 1 | | | | | |
| <i>General Color:</i> | | | | | |
| <i>Most Common Material:</i> CLAY | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Formation Top Depth:</i> 0 | | | | | |
| <i>Formation End Depth:</i> 15 | | | | | |
| <i>Formation End Depth UOM:</i> ft | | | | | |
| -- | | | | | |
| <i>Formation ID:</i> 931015954 | | | | | |
| <i>Layer:</i> 2 | | | | | |
| <i>General Color:</i> | | | | | |
| <i>Most Common Material:</i> HARDPAN | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Formation Top Depth:</i> 15 | | | | | |
| <i>Formation End Depth:</i> 39 | | | | | |
| <i>Formation End Depth UOM:</i> ft | | | | | |
| -- | | | | | |
| <i>Formation ID:</i> 931015955 | | | | | |
| <i>Layer:</i> 3 | | | | | |
| <i>General Color:</i> GREY | | | | | |
| <i>Most Common Material:</i> LIMESTONE | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Formation Top Depth:</i> 39 | | | | | |
| <i>Formation End Depth:</i> 55 | | | | | |
| <i>Formation End Depth UOM:</i> ft | | | | | |
| -- | | | | | |
| <i>Method of Construction & Well Use</i> | | | | | |
| -- | | | | | |
| <i>Method Construction ID:</i> 961510843 | | | | | |
| <i>Method Construction Code:</i> 1 | | | | | |
| <i>Method Construction:</i> Cable Tool | | | | | |
| <i>Other Method Construction:</i> | | | | | |
| -- | | | | | |
| <i>Pipe Information</i> | | | | | |
| -- | | | | | |
| <i>Pipe ID:</i> 10581416 | | | | | |
| <i>Casing Number:</i> 1 | | | | | |
| <i>Comment:</i> | | | | | |
| <i>Alt Name:</i> | | | | | |
| -- | | | | | |
| <i>Construction Record - Casing</i> | | | | | |
| -- | | | | | |
| <i>Casing ID:</i> 930058245 | | | | | |
| <i>Layer:</i> 1 | | | | | |
| <i>Open Hole or Material:</i> STEEL | | | | | |
| <i>Depth From:</i> | | | | | |
| <i>Depth To:</i> 43 | | | | | |
| <i>Casing Diameter:</i> 5 | | | | | |
| <i>Casing Diameter UOM:</i> inch | | | | | |
| <i>Casing Depth UOM:</i> ft | | | | | |
| -- | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Casing ID: | | 930058246 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 55 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991510843 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 20 | | | |
| Final Level After Pumping: | | 30 | | | |
| Recommended Pump Depth: | | 45 | | | |
| Pumping Rate: | | 10 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 5 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 2 | | | |
| Water State After Test: | | CLOUDY | | | |
| Pumping Test Method: | | 1 | | | |
| Pumping Duration HR: | | 1 | | | |
| Pumping Duration MIN: | | 0 | | | |
| Flowing: | | N | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933465872 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 54 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

[13](#)

1 of 2

SSW/94.5

90.0

lot 24
ON

WWIS

| | | | |
|---------------------------|---------------------|-------------------------|-----|
| Well ID: | 1511750 | Lot: | 024 |
| Construction Date: | | Concession: | |
| Primary Water Use: | Domestic | Concession Name: | BF |
| Sec. Water Use: | | Easting NAD83: | |
| Final Well Status: | Water Supply | Northing NAD83: | |
| Specific Capacity: | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | |

Bore Hole Information

| | |
|-----------------------------|--------------------------------|
| -- | -- |
| Bore Hole ID: | 10033744 |
| DP2BR: | 57 |
| Code OB: | r |
| Code OB Description: | Bedrock |
| Open Hole: | |
| Date Completed: | 30-MAR-72 |
| Remarks: | |
| Zone: | 18 |
| East 83: | 445270.8 |
| North 83: | 5011242 |
| UTMRC: | 4 |
| UTMRC Description: | margin of error : 30 m - 100 m |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Location Method: | | p4 | | | |
| Org CS: | | | | | |
| Elevation: | | 90.77 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | 931018629 | | | |
| Layer: | | 1 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 35 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931018630 | | | |
| Layer: | | 2 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | HARDPAN | | | |
| Other Materials: | | GRAVEL | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 35 | | | |
| Formation End Depth: | | 57 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931018631 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 57 | | | |
| Formation End Depth: | | 86 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961511750 | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10582314 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930059948 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> | <i>DB</i> |
|-------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Depth To:</i> | | 60 | | | |
| <i>Casing Diameter:</i> | | 5 | | | |
| <i>Casing Diameter UOM:</i> | | inch | | | |
| <i>Casing Depth UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Casing ID:</i> | | 930059949 | | | |
| <i>Layer:</i> | | 2 | | | |
| <i>Open Hole or Material:</i> | | OPEN HOLE | | | |
| <i>Depth From:</i> | | | | | |
| <i>Depth To:</i> | | 86 | | | |
| <i>Casing Diameter:</i> | | | | | |
| <i>Casing Diameter UOM:</i> | | inch | | | |
| <i>Casing Depth UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Well Yield Testing</i> | | | | | |
| -- | | -- | | | |
| <i>Pump Test ID:</i> | | 991511750 | | | |
| <i>Pump Set At:</i> | | | | | |
| <i>Static Level:</i> | | 21 | | | |
| <i>Final Level After Pumping:</i> | | 55 | | | |
| <i>Recommended Pump Depth:</i> | | 55 | | | |
| <i>Pumping Rate:</i> | | 20 | | | |
| <i>Flowing Rate:</i> | | | | | |
| <i>Recommended Pump Rate:</i> | | 6 | | | |
| <i>Levels UOM:</i> | | ft | | | |
| <i>Rate UOM:</i> | | GPM | | | |
| <i>Water State After Test Code:</i> | | 2 | | | |
| <i>Water State After Test:</i> | | CLOUDY | | | |
| <i>Pumping Test Method:</i> | | 2 | | | |
| <i>Pumping Duration HR:</i> | | 1 | | | |
| <i>Pumping Duration MIN:</i> | | 0 | | | |
| <i>Flowing:</i> | | N | | | |
| -- | | -- | | | |
| <i>Draw Down & Recovery</i> | | | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934098400 | | | |
| <i>Pump Test ID:</i> | | 991511750 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 15 | | | |
| <i>Test Level:</i> | | 42 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934382942 | | | |
| <i>Pump Test ID:</i> | | 991511750 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 30 | | | |
| <i>Test Level:</i> | | 55 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934645076 | | | |
| <i>Pump Test ID:</i> | | 991511750 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 45 | | | |
| <i>Test Level:</i> | | 55 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Pump Test Detail ID:</i> | | 934894206 | | | |
| <i>Pump Test ID:</i> | | 991511750 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 60 | | | |
| <i>Test Level:</i> | | 55 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| -- | | -- | | | |
| <i>Water Details</i> | | | | | |
| -- | | -- | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------|---------------------------------|----------------------------|------------------|------------------|------|
| Water ID: | | 933467007 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 86 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| <u>13</u> | 2 of 2 | SSW/94.5 | 90.0 | lot 24 ON | WWIS |
| Well ID: | 1500345 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | | -- | | | |
| Bore Hole ID: | 10022390 | | | | |
| DP2BR: | 37 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 12-MAY-62 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445270.8 | | | | |
| North 83: | 5011242 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.77 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | 930989023 | | | | |
| Layer: | 1 | | | | |
| General Color: | BROWN | | | | |
| Most Common Material: | MEDIUM SAND | | | | |
| Other Materials: | CLAY | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 15 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | | -- | | | |
| Formation ID: | 930989024 | | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | BOULDERS | | | | |
| Other Materials: | GRAVEL | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Other Materials: | | MEDIUM SAND | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 37 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989025 | | | |
| Layer: | | 3 | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 37 | | | |
| Formation End Depth: | | 71 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961500345 | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10570960 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930037713 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 42 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930037714 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 71 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991500345 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 16 | | | |
| Final Level After Pumping: | | 28 | | | |
| Recommended Pump Depth: | | 28 | | | |
| Pumping Rate: | | 6 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 3 | | | |
| 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 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------|-------------------|----------------------------|------------------|------|----|
| Pumping Duration MIN: | | 30 | | | |
| Flowing: | | N | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933452862 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 69 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

| | | | | | |
|--|---------------------------------|---------|------|-------------------------|------|
| <u>14</u> | 1 of 1 | SW/94.8 | 90.0 | lot 24 ON | WWIS |
| Well ID: | 1500343 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10022388 | | | | |
| DP2BR: | 32 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 09-SEP-60 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445260.8 | | | | |
| North 83: | 5011262 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.54 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 930989017 | | | | |
| Layer: | 1 | | | | |
| General Color: | BLUE | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 20 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation ID: | | 930989018 | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | | BOULDERS | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 20 | | | | |
| Formation End Depth: | 32 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | | 930989019 | | | |
| Layer: | 3 | | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 32 | | | | |
| Formation End Depth: | 49 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Method of Construction & Well Use | | | | | |
| -- | -- | | | | |
| Method Construction ID: | | 961500343 | | | |
| Method Construction Code: | 1 | | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| -- | -- | | | | |
| Pipe Information | | | | | |
| -- | -- | | | | |
| Pipe ID: | | 10570958 | | | |
| Casing Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | | 930037709 | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | 35 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Casing ID: | | 930037710 | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | 49 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |
| Pump Test ID: | | 991500343 | | | |
| Pump Set At: | | | | | |
| Static Level: | 14 | | | | |
| Final Level After Pumping: | 16 | | | | |
| Recommended Pump Depth: | 35 | | | | |
| Pumping Rate: | 6 | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 4 | | | | |
| Levels UOM: | ft | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 1 | | | |
| Water State After Test: | | CLEAR | | | |
| Pumping Test Method: | | 1 | | | |
| Pumping Duration HR: | | 0 | | | |
| Pumping Duration MIN: | | 30 | | | |
| Flowing: | | N | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933452860 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 48 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

| <u>15</u> | 1 of 2 | SSW/98.1 | 90.0 | ON | BORE |
|--------------------------------|-----------|----------|------|-----------------------------|---|
| Borehole ID: | 611966 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 445291 | | | Northing: | 5011192 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 89 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 90.6 |
| Total Depth m: | 20.4 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | NOV-1965 | | | Static Water Level: | -3 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | 218389684 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 6.1 | | | Stratum Desc: | CLAY. |
| + | | | | | |
| Stratum ID: | 218389685 | | | Top Depth(m): | 6.1 |
| Bottom Depth(m): | 7.6 | | | Stratum Desc: | CLAY,BOULDERS. |
| + | | | | | |
| Stratum ID: | 218389686 | | | Top Depth(m): | 7.6 |
| Bottom Depth(m): | 11.3 | | | Stratum Desc: | GRAVEL,SAND. |
| + | | | | | |
| Stratum ID: | 218389687 | | | Top Depth(m): | 11.3 |
| Bottom Depth(m): | 20.4 | | | Stratum Desc: | LIMESTONE. 00065302.0 FEET.0. BEDROCK. SEISMIC VELOCITY = 19500. BEDROCK,LIMESTONE. G |

| <u>15</u> | 2 of 2 | SSW/98.1 | 90.0 | lot 24 ON | WWIS |
|---------------------------|---------------------|----------|------|-------------------------|------|
| Well ID: | 1500349 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Bore Hole Information | | | | | |
| -- | | -- | | | |
| Bore Hole ID: | | 10022394 | | | |
| DP2BR: | | 37 | | | |
| Code OB: | | r | | | |
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 12-NOV-65 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445290.8 | | | |
| North 83: | | 5011192 | | | |
| UTMRC: | | 5 | | | |
| UTMRC Description: | | margin of error : 100 m - 300 m | | | |
| Location Method: | | p5 | | | |
| Org CS: | | | | | |
| Elevation: | | 90.56 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | 930989034 | | | |
| Layer: | | 1 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 20 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989035 | | | |
| Layer: | | 2 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 20 | | | |
| Formation End Depth: | | 25 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989036 | | | |
| Layer: | | 3 | | | |
| General Color: | | | | | |
| Most Common Material: | | GRAVEL | | | |
| Other Materials: | | MEDIUM SAND | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 25 | | | |
| Formation End Depth: | | 37 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930989037 | | | |
| Layer: | | 4 | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 37 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation End Depth: | | 67 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961500349 | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10570964 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930037721 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 40 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930037722 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 67 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991500349 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 15 | | | |
| Final Level After Pumping: | | 16 | | | |
| Recommended Pump Depth: | | 50 | | | |
| Pumping Rate: | | 10 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 5 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 2 | | | |
| Water State After Test: | | CLOUDY | | | |
| Pumping Test Method: | | 1 | | | |
| Pumping Duration HR: | | 1 | | | |
| Pumping Duration MIN: | | 0 | | | |
| Flowing: | | N | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933452866 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 65 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--------------------------------|-------------------|----------------------------|------------------|-----------------------------|--|
| -- | -- | -- | -- | -- | -- |
| 16 | 1 of 2 | WSW/98.2 | 90.0 | 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= |

| | | | | | |
|-------------------------------------|---------------------------------|----------|------|-------------------------|------|
| 16 | 2 of 2 | WSW/98.2 | 90.0 | lot 24 ON | WWIS |
| Well ID: | 1500346 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | | | | | |
| Bore Hole ID: | 10022391 | | | | |
| DP2BR: | 40 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 30-OCT-63 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445150.8 | | | | |
| North 83: | 5011482 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 89.7 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| -- | -- | -- | -- | -- | -- |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | | 930989026 | | | |
| Layer: | | 1 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 40 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | | 930989027 | | | |
| Layer: | | 2 | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| 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 Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Casing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037715 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 41 | | | |
| Casing Diameter: | | 4 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037716 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 75 | | | |
| Casing Diameter: | | 4 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Well Yield Testing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test ID: | | 991500346 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 40 | | | |
| Final Level After Pumping: | | 44 | | | |
| Recommended Pump Depth: | | 60 | | | |

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

| <u>17</u> | 1 of 1 | SW/107.6 | 90.0 | lot 24 ON | WWIS |
|-------------------------------------|---------------------------------|----------|------|-------------------------|------|
| Well ID: | 1500341 | | | Lot: | 024 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10022386 | | | | |
| DP2BR: | 45 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 13-JUL-59 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445180.8 | | | | |
| North 83: | 5011392 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 89.3 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 930989011 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | 1 | | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 30 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989012 | | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 30 | | | | |
| Formation End Depth: | 45 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989013 | | | | |
| Layer: | 3 | | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| 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 Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | 930037705 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | 45 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Casing ID: | 930037706 | | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | 65 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |

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

| | | | | | |
|-----------|--------|----------|------|--------------|------|
| <u>18</u> | 1 of 1 | SW/109.7 | 90.0 | lot 24 ON | WWIS |
|-----------|--------|----------|------|--------------|------|

| | | | |
|---------------------------|---------------------|-------------------------|-----|
| Well ID: | 1500340 | Lot: | 024 |
| Construction Date: | | Concession: | |
| Primary Water Use: | Domestic | Concession Name: | BF |
| Sec. Water Use: | | Easting NAD83: | |
| Final Well Status: | Water Supply | Northing NAD83: | |
| Specific Capacity: | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | |

Bore Hole Information

| | |
|-------------------------------------|---------------------------------|
| -- | -- |
| Bore Hole ID: | 10022385 |
| DP2BR: | 46 |
| Code OB: | r |
| Code OB Description: | Bedrock |
| Open Hole: | |
| Date Completed: | 29-JUN-59 |
| Remarks: | |
| Zone: | 18 |
| East 83: | 445190.8 |
| North 83: | 5011372 |
| UTMRC: | 5 |
| UTMRC Description: | margin of error : 100 m - 300 m |
| Location Method: | p5 |
| Org CS: | |
| Elevation: | 89.41 |
| Elevrc: | |
| Elevrc Description: | |
| Location Source Date: | |
| Source Revision Comment: | |
| Improvement Location Source: | |
| Improvement Location Method: | |
| Supplier Comment: | |
| Spatial Status: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| -- | -- | -- | -- | -- | -- |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | | 930989008 | | | |
| Layer: | | 1 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | | 930989009 | | | |
| Layer: | | 2 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | STONES | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 46 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Formation ID: | | 930989010 | | | |
| Layer: | | 3 | | | |
| General Color: | | | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 46 | | | |
| Formation End Depth: | | 66 | | | |
| 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 Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Casing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037703 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 46 | | | |
| Casing Diameter: | | 4 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930037704 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 66 | | | |
| Casing Diameter: | | 4 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| 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 | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933452857 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 66 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

| | | | | | |
|------------------------------|--------------------------------|---------|------|-------------------------|------|
| <u>19</u> | 1 of 1 | S/125.9 | 90.0 | con A ON | WWIS |
| Well ID: | 1533717 | | | Lot: | |
| Construction Date: | | | | Concession: | A |
| Primary Water Use: | Commerical | | | Concession Name: | RF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Observation Wells | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | NEPEAN TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10537551 | | | | |
| DP2BR: | | | | | |
| Code OB: | 0 | | | | |
| Code OB Description: | Overburden | | | | |
| Open Hole: | | | | | |
| Date Completed: | 27-JUN-02 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445555 | | | | |
| North 83: | 5011157 | | | | |
| UTMRC: | 6 | | | | |
| UTMRC Description: | margin of error : 300 m - 1 km | | | | |
| Location Method: | gis | | | | |
| Org CS: | NA | | | | |
| Elevation: | 90.14 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Source Revision Comment:</i> | | | | | |
| <i>Improvement Location Source:</i> | | | | | |
| <i>Improvement Location Method:</i> | | | | | |
| <i>Supplier Comment:</i> | | | | | |
| <i>Spatial Status:</i> | | | | | |
| -- | | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | | | | |
| Formation ID: | | | 932905563 | | |
| Layer: | | | 1 | | |
| General Color: | | | BROWN | | |
| Most Common Material: | | | TILL | | |
| Other Materials: | | | LOOSE | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 0 | | |
| Formation End Depth: | | | 0 | | |
| Formation End Depth UOM: | | | ft | | |
| -- | | | | | |
| Formation ID: | | | 932905564 | | |
| Layer: | | | 2 | | |
| General Color: | | | BROWN | | |
| Most Common Material: | | | FILL | | |
| Other Materials: | | | LOOSE | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 0 | | |
| Formation End Depth: | | | 1 | | |
| Formation End Depth UOM: | | | ft | | |
| -- | | | | | |
| Formation ID: | | | 932905565 | | |
| Layer: | | | 3 | | |
| General Color: | | | BROWN | | |
| Most Common Material: | | | CLAY | | |
| Other Materials: | | | SILT | | |
| Other Materials: | | | PACKED | | |
| Formation Top Depth: | | | 1 | | |
| Formation End Depth: | | | 19 | | |
| Formation End Depth UOM: | | | ft | | |
| -- | | | | | |
| Formation ID: | | | 932905566 | | |
| Layer: | | | 4 | | |
| General Color: | | | GREY | | |
| Most Common Material: | | | SILT | | |
| Other Materials: | | | CLAY | | |
| Other Materials: | | | PACKED | | |
| Formation Top Depth: | | | 19 | | |
| Formation End Depth: | | | 26 | | |
| Formation End Depth UOM: | | | ft | | |
| -- | | | | | |
| Annular Space/Abandonment Sealing Record | | | | | |
| -- | | | | | |
| Plug ID: | | | 933236247 | | |
| Layer: | | | 1 | | |
| Plug From: | | | 0 | | |
| Plug To: | | | 3 | | |
| Plug Depth UOM: | | | ft | | |
| -- | | | | | |
| Plug ID: | | | 933236248 | | |
| Layer: | | | 2 | | |
| Plug From: | | | 3 | | |
| Plug To: | | | 25 | | |
| Plug Depth UOM: | | | ft | | |
| -- | | | | | |
| Method of Construction & Well Use | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| -- | -- | -- | -- | -- | -- |
| Method Construction ID: | | 961533717 | | | |
| Method Construction Code: | | 9 | | | |
| Method Construction: | | Driving | | | |
| Other Method Construction: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe Information | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe ID: | | 11086121 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Casing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930097485 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | | | | |
| Depth To: | | 25 | | | |
| Casing Diameter: | | 1 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Screen | | | | | |
| -- | -- | -- | -- | -- | -- |
| Screen ID: | | 933385349 | | | |
| Layer: | | 1 | | | |
| Slot: | | 001 | | | |
| Screen Top Depth: | | 15 | | | |
| Screen End Depth: | | 25 | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 1 | | | |
| -- | -- | -- | -- | -- | -- |
| Water Details | | | | | |
| -- | -- | -- | -- | -- | -- |
| Water ID: | | 934031048 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 5 | | | |
| Kind: | | Not stated | | | |
| Water Found Depth: | | 19 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |

[20](#) 1 of 1 **WSW/138.0** **89.0** **lot 23** **ON** **WWIS**

| | | | |
|---------------------------|---------------------|-------------------------|-----|
| Well ID: | 1513511 | Lot: | 023 |
| Construction Date: | | Concession: | |
| Primary Water Use: | Domestic | Concession Name: | BF |
| Sec. Water Use: | | Easting NAD83: | |
| Final Well Status: | Water Supply | Northing NAD83: | |
| Specific Capacity: | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | |

Bore Hole Information

--

Bore Hole ID: 10035497

DP2BR: 44

Code OB: r

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 30-JUL-73 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445110.8 | | | |
| North 83: | | 5011532 | | | |
| UTMRC: | | 6 | | | |
| UTMRC Description: | | margin of error : 300 m - 1 km | | | |
| Location Method: | | p6 | | | |
| Org CS: | | | | | |
| Elevation: | | 88.79 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | 931023596 | | | |
| Layer: | | 1 | | | |
| General Color: | | BROWN | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 12 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931023597 | | | |
| Layer: | | 2 | | | |
| General Color: | | BLUE | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 12 | | | |
| Formation End Depth: | | 44 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931023598 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 44 | | | |
| Formation End Depth: | | 65 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931023599 | | | |
| Layer: | | 4 | | | |
| General Color: | | WHITE | | | |
| Most Common Material: | | SANDSTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 65 | | | |
| Formation End Depth: | | 115 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elevation (m)</i> | <i>Site</i> | <i>DB</i> |
|-------------------------------------|--------------------------|--------------------------------|----------------------|-------------|-----------|
| -- | -- | -- | -- | -- | -- |
| Method Construction ID: | | 961513511 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe Information | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe ID: | | 10584067 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Casing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | | 930062819 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 47 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| 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: | | 934099323 | | | |
| Pump Test ID: | | 991513511 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 75 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934379144 | | | |
| Pump Test ID: | | 991513511 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 75 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test Detail ID: | | 934640138 | | | |
| Pump Test ID: | | 991513511 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 75 | | | |
| Test Level UOM: | | ft | | | |
| -- | -- | -- | -- | -- | -- |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------|-------------------|----------------------------|------------------|------|----|
| Pump Test Detail ID: | | 934897613 | | | |
| Pump Test ID: | | 991513511 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 75 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933469094 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 99 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Water ID: | | 933469095 | | | |
| Layer: | | 2 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 109 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Water ID: | | 933469096 | | | |
| Layer: | | 3 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 114 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

| <u>21</u> | 1 of 2 | S/150.0 | 90.0 | ON | BORE |
|--------------------------------|-----------|---------|------|-----------------------------|---|
| Borehole ID: | 611959 | | | Type: | Borehole |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: | 18 |
| Easting: | 445431 | | | Northing: | 5011082 |
| Location Accuracy: | | | | Orig. Ground Elev m: | 89.9 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 90.6 |
| Total Depth m: | -999 | | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | | | | Static Water Level: | 6.4 |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | 218389669 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 14.0 | | | Stratum Desc: | TILL. |
| + | | | | | |
| Stratum ID: | 218389670 | | | Top Depth(m): | 14.0 |
| Bottom Depth(m): | | | | Stratum Desc: | BEDROCK,LIMESTONE. WATER STABLE AT 274.0 FEET.E. 0009500. BEDROCK. SEISMIC VELOCITY = |

| <u>21</u> | 2 of 2 | S/150.0 | 90.0 | lot 25 ON | WWIS |
|---------------------------|----------|---------|------|-------------------------|------|
| Well ID: | 1513373 | | | Lot: | 025 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|--------------------------------|----------------------------|------------------|-------------------------|----|
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10035359 | | | | |
| DP2BR: | 52 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 05-JUN-73 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445431.8 | | | | |
| North 83: | 5011082 | | | | |
| UTMRC: | 4 | | | | |
| UTMRC Description: | margin of error : 30 m - 100 m | | | | |
| Location Method: | p4 | | | | |
| Org CS: | | | | | |
| Elevation: | 90.6 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 931023193 | | | | |
| Layer: | 1 | | | | |
| General Color: | BROWN | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 15 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 931023194 | | | | |
| Layer: | 2 | | | | |
| General Color: | BROWN | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | BOULDERS | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 15 | | | | |
| Formation End Depth: | 44 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 931023195 | | | | |
| Layer: | 3 | | | | |
| General Color: | BROWN | | | | |
| Most Common Material: | GRAVEL | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 44 | | | | |
| Formation End Depth: | 52 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 931023196 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | | 4 | | | |
| General Color: | | BROWN | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 52 | | | |
| Formation End Depth: | | 90 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931023197 | | | |
| Layer: | | 5 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 90 | | | |
| Formation End Depth: | | 98 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961513373 | | | |
| Method Construction Code: | | 5 | | | |
| Method Construction: | | Air Percussion | | | |
| Other Method Construction: | | | | | |
| -- | | -- | | | |
| Pipe Information | | | | | |
| -- | | -- | | | |
| Pipe ID: | | 10583929 | | | |
| Casing Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930062621 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 52 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930062622 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 98 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Well Yield Testing | | | | | |
| -- | | -- | | | |
| Pump Test ID: | | 991513373 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 20 | | | |
| Final Level After Pumping: | | 65 | | | |
| Recommended Pump Depth: | | 70 | | | |
| Pumping Rate: | | 6 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 5 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| 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: | 934099207 | | | | |
| Pump Test ID: | 991513373 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 15 | | | | |
| Test Level: | 65 | | | | |
| Test Level UOM: | ft | | | | |
| -- | -- | | | | |
| Pump Test Detail ID: | 934378599 | | | | |
| Pump Test ID: | 991513373 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 30 | | | | |
| Test Level: | 65 | | | | |
| Test Level UOM: | ft | | | | |
| -- | -- | | | | |
| Pump Test Detail ID: | 934639594 | | | | |
| Pump Test ID: | 991513373 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 45 | | | | |
| Test Level: | 65 | | | | |
| Test Level UOM: | ft | | | | |
| -- | -- | | | | |
| Pump Test Detail ID: | 934897065 | | | | |
| Pump Test ID: | 991513373 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 60 | | | | |
| Test Level: | 65 | | | | |
| Test Level UOM: | ft | | | | |
| -- | -- | | | | |
| -- | -- | | | | |
| Water Details | | | | | |
| -- | -- | | | | |
| Water ID: | 933468911 | | | | |
| Layer: | 1 | | | | |
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 65 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Water ID: | 933468912 | | | | |
| Layer: | 2 | | | | |
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 96 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | | | | |
| -- | -- | | | | |

| | | | | | |
|---------------------------|--------------|---------|------|-------------------------|------|
| <u>22</u> | 1 of 1 | S/169.9 | 90.0 | lot 25 ON | WWIS |
| Well ID: | 1511939 | | | Lot: | 025 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------------------|-----------|
| Municipality: | | GLOUCESTER TOWNSHIP | | UTM Reliability: | |
| County: | | OTTAWA-CARLETON | | | |
| Bore Hole Information | | | | | |
| -- | | -- | | | |
| Bore Hole ID: | | 10033933 | | | |
| DP2BR: | | 63 | | | |
| Code OB: | | r | | | |
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 10-APR-72 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445430.8 | | | |
| North 83: | | 5011062 | | | |
| UTMRC: | | 6 | | | |
| UTMRC Description: | | margin of error : 300 m - 1 km | | | |
| Location Method: | | p6 | | | |
| Org CS: | | | | | |
| Elevation: | | 90.77 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | 931019145 | | | |
| Layer: | | 1 | | | |
| General Color: | | BROWN | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | SAND | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 20 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931019146 | | | |
| Layer: | | 2 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | SAND | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 20 | | | |
| Formation End Depth: | | 63 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 931019147 | | | |
| Layer: | | 3 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 63 | | | |
| Formation End Depth: | | 83 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Method of Construction & Well Use | | | | | |
| -- | | -- | | | |
| Method Construction ID: | | 961511939 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Method Construction Code: | 5 | | | | |
| Method Construction: | Air Percussion | | | | |
| Other Method Construction: | -- | | | | |
| Pipe Information | -- | | | | |
| Pipe ID: | 10582503 | | | | |
| Casing Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | -- | | | | |
| Construction Record - Casing | -- | | | | |
| Casing ID: | 930060252 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | STEEL | | | | |
| Depth From: | | | | | |
| Depth To: | 65 | | | | |
| Casing Diameter: | 6 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| Well Yield Testing | -- | | | | |
| Pump Test ID: | 991511939 | | | | |
| Pump Set At: | | | | | |
| Static Level: | 20 | | | | |
| 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: | 2 | | | | |
| Pumping Duration MIN: | 0 | | | | |
| Flowing: | N | | | | |
| Draw Down & Recovery | -- | | | | |
| Pump Test Detail ID: | 934098576 | | | | |
| Pump Test ID: | 991511939 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 15 | | | | |
| Test Level: | 75 | | | | |
| Test Level UOM: | ft | | | | |
| Pump Test Detail ID: | 934384512 | | | | |
| Pump Test ID: | 991511939 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 30 | | | | |
| Test Level: | 75 | | | | |
| Test Level UOM: | ft | | | | |
| Pump Test Detail ID: | 934646085 | | | | |
| Pump Test ID: | 991511939 | | | | |
| Test Type: | Draw Down | | | | |
| Test Duration: | 45 | | | | |
| Test Level: | 75 | | | | |
| Test Level UOM: | ft | | | | |
| Pump Test Detail ID: | 934893686 | | | | |
| Pump Test ID: | 991511939 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--------------------------------|-------------------|--|------------------|---|------|
| Test Type: | | Draw Down | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 75 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933467242 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 81 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |
| 23 | 1 of 1 | WNW/178.3 | 90.0 | 3704 Prince of Wales Dr. Ottawa ON | EHS |
| Postal Code: | | | | | |
| City: | | | | | |
| Address2: | | | | | |
| Address1: | | | | | |
| Provstate: | | | | | |
| Order No.: | | 20060911023 | | | |
| Addit. Info Ordered: | | | | | |
| Report Date: | | 9/19/2006 | | | |
| Report Type: | | Custom Report | | | |
| Search Radius (km): | | 0.25 | | | |
| 24 | 1 of 1 | N/182.0 | 92.0 | River Rd Earl Armstrong Rd Ottawa ON | EHS |
| Postal Code: | | | | | |
| City: | | Ottawa | | | |
| Address2: | | | | | |
| Address1: | | River Rd Earl Armstrong Rd | | | |
| Provstate: | | ON | | | |
| Order No.: | | 20140829049 | | | |
| Addit. Info Ordered: | | Fire Insur. Maps and/or Site Plans; City Directory | | | |
| Report Date: | | 25-SEP-14 | | | |
| Report Type: | | Custom Report | | | |
| Search Radius (km): | | .25 | | | |
| 25 | 1 of 1 | NNE/186.6 | 94.0 | ON | BORE |
| Borehole ID: | | 612029 | | Type: Borehole | |
| Use: | | | | Status: | |
| Drill Method: | | | | UTM Zone: 18 | |
| Easting: | | 446071 | | Northing: 5012522 | |
| Location Accuracy: | | | | Orig. Ground Elev m: 89.9 | |
| Elev. Reliability Note: | | | | DEM Ground Elev m: 93.4 | |
| Total Depth m: | | -999 | | Primary Name: | |
| Township: | | | | Concession: | |
| Lot: | | | | Municipality: | |
| Completion Date: | | | | Static Water Level: 6.4 | |
| Primary Water Use: | | | | Sec. Water Use: | |
| --- Details --- | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------|-------------------|-------------------------|---------------|----------------------|---|
| Stratum ID: | 218389858 | | | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 10.7 | | | Stratum Desc: | TILL. |
| + | | | | | |
| Stratum ID: | 218389859 | | | Top Depth(m): | 10.7 |
| Bottom Depth(m): | | | | Stratum Desc: | GRAVEL,SAND. WATER STABLE AT 274.0 FEET.E AT 258.0 FEET.CLAY,BOULDERS. BEDROCK,LIMESTONE. |

| <u>26</u> | 1 of 2 | W/188.0 | 88.4 | 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 |

| <u>26</u> | 2 of 2 | W/188.0 | 88.4 | lot 23 ON | WWIS |
|------------------------------|---------------------------------|---------|------|-------------------------|------|
| Well ID: | 1500334 | | | Lot: | 023 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | | | | | |
| Bore Hole ID: | 10022379 | | | | |
| DP2BR: | 80 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 09-AUG-57 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445100.8 | | | | |
| North 83: | 5011702 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Elevation: | | 87.11 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | -- | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | -- | | | |
| Formation ID: | | 930988990 | | | |
| Layer: | | 1 | | | |
| General Color: | | | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 80 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Formation ID: | | 930988991 | | | |
| Layer: | | 2 | | | |
| General Color: | | | | | |
| Most Common Material: | | SANDSTONE | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 80 | | | |
| Formation End Depth: | | 100 | | | |
| 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 Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | | -- | | | |
| Construction Record - Casing | | | | | |
| -- | | -- | | | |
| Casing ID: | | 930037692 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 80 | | | |
| Casing Diameter: | | 3 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| Casing ID: | | 930037693 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 100 | | | |
| Casing Diameter: | | 3 | | | |
| Casing Diameter UOM: | | inch | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| Casing Depth UOM: | | ft | | | |
| -- | | -- | | | |
| 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 | | | |
| -- | | -- | | | |
| -- | | -- | | | |

[27](#) 1 of 1 WNW/199.9 88.2 lot 23 ON WWIS

| | | | |
|---------------------------|---------------------|-------------------------|-----|
| Well ID: | 1514044 | Lot: | 023 |
| Construction Date: | | Concession: | |
| Primary Water Use: | Domestic | Concession Name: | BF |
| Sec. Water Use: | | Easting NAD83: | |
| Final Well Status: | Water Supply | Northing NAD83: | |
| Specific Capacity: | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | |

Bore Hole Information

--

Bore Hole ID: 10036026

DP2BR: 40

Code OB: r

Code OB Description: Bedrock

Open Hole:

Date Completed: 12-JAN-74

Remarks:

Zone: 18

East 83: 445098.8

North 83: 5011719

UTMRC: 4

UTMRC Description: margin of error : 30 m - 100 m

Location Method: p4

Org CS:

Elevation: 87.59

Elevrc:

Elevrc Description:

Location Source Date:

Source Revision Comment:

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | | 931025179 | | | |
| Layer: | | 1 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 40 | | | |
| Formation End Depth UOM: | | ft | | | |
| -- | -- | | | | |
| Formation ID: | | 931025180 | | | |
| Layer: | | 2 | | | |
| General Color: | | GREY | | | |
| Most Common Material: | | LIMESTONE | | | |
| Other Materials: | | | | | |
| 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 Number: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | | 930063644 | | | |
| Layer: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 43 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | | | | |
| Casing ID: | | 930063645 | | | |
| Layer: | | 2 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 75 | | | |
| Casing Diameter: | | 5 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |
| Pump Test ID: | | 991514044 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|---------------------------------|-------------------|----------------------------|------------------|------|----|
| 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: | | 934099807 | | | |
| Pump Test ID: | | 991514044 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 60 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| Pump Test Detail ID: | | 934381299 | | | |
| Pump Test ID: | | 991514044 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 60 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| Pump Test Detail ID: | | 934641874 | | | |
| Pump Test ID: | | 991514044 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 60 | | | |
| Test Level UOM: | | ft | | | |
| -- | | -- | | | |
| Pump Test Detail ID: | | 934899761 | | | |
| Pump Test ID: | | 991514044 | | | |
| 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 | | | |
| -- | | -- | | | |
| -- | | -- | | | |

[28](#)

1 of 2

WNW/208.5

88.3

ON

BORE

| | | | |
|---------------|--------|-----------|----------|
| Borehole ID: | 612003 | Type: | Borehole |
| Use: | | Status: | |
| Drill Method: | | UTM Zone: | 18 |
| Easting: | 445091 | Northing: | 5011912 |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--------------------------------|-------------------|----------------------------|------------------|-----------------------------|---|
| Location Accuracy: | | | | Orig. Ground Elev m: | 88.4 |
| Elev. Reliability Note: | | | | DEM Ground Elev m: | 88.4 |
| Total Depth m: | | 25.9 | | | |
| Township: | | | | Primary Name: | |
| Lot: | | | | Concession: | |
| Completion Date: | | DEC-1961 | | | |
| Primary Water Use: | | | | Municipality: | |
| | | | | Static Water Level: | -999.9 |
| | | | | Sec. Water Use: | |
| --- Details --- | | | | | |
| Stratum ID: | | 218389786 | | | |
| Bottom Depth(m): | | 6.4 | | | |
| + | | | | | |
| Stratum ID: | | 218389787 | | | |
| Bottom Depth(m): | | 14.9 | | | |
| + | | | | | |
| Stratum ID: | | 218389788 | | | |
| Bottom Depth(m): | | 25.9 | | | |
| | | | | Top Depth(m): | 0.0 |
| | | | | Stratum Desc: | CLAY. BLUE. |
| | | | | Top Depth(m): | 6.4 |
| | | | | Stratum Desc: | SAND,BOULDERS,GRAVEL |
| | | | | Top Depth(m): | 14.9 |
| | | | | Stratum Desc: | SANDSTONE. 00082STONE,SAND. WHITE. SANDSTONE. WHITE. 00086 = 19500. BEDROCK. SEISMI |

| | | | | | |
|--|--------|---------------------------------|------|--------------|------|
| 28 | 2 of 2 | WNW/208.5 | 88.3 | lot 23 ON | WWIS |
| Well ID: | | 1500335 | | | |
| Construction Date: | | | | | |
| Primary Water Use: | | Domestic | | | |
| Sec. Water Use: | | | | | |
| Final Well Status: | | Water Supply | | | |
| Specific Capacity: | | | | | |
| Municipality: | | GLOUCESTER TOWNSHIP | | | |
| County: | | OTTAWA-CARLETON | | | |
| Bore Hole Information | | | | | |
| -- | | | | | |
| Bore Hole ID: | | 10022380 | | | |
| DP2BR: | | 49 | | | |
| Code OB: | | r | | | |
| Code OB Description: | | Bedrock | | | |
| Open Hole: | | | | | |
| Date Completed: | | 01-DEC-61 | | | |
| Remarks: | | | | | |
| Zone: | | 18 | | | |
| East 83: | | 445090.8 | | | |
| North 83: | | 5011912 | | | |
| UTMRC: | | 5 | | | |
| UTMRC Description: | | margin of error : 100 m - 300 m | | | |
| Location Method: | | p5 | | | |
| Org CS: | | | | | |
| Elevation: | | 88.37 | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | | | | | |
| Overburden and Bedrock Materials Interval | | | | | |
| -- | | | | | |
| Formation ID: | | 930988992 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | 1 | | | | |
| General Color: | | BLUE | | | |
| Most Common Material: | | CLAY | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 21 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930988993 | | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | | MEDIUM SAND | | | |
| Other Materials: | | BOULDERS | | | |
| Other Materials: | | GRAVEL | | | |
| Formation Top Depth: | 21 | | | | |
| Formation End Depth: | 49 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930988994 | | | | |
| Layer: | 3 | | | | |
| General Color: | | | | | |
| Most Common Material: | | SANDSTONE | | | |
| Other Materials: | | | | | |
| 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 Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | | | | |
| Construction Record - Casing | | | | | |
| -- | -- | | | | |
| Casing ID: | 930037694 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | 51 | | | | |
| Casing Diameter: | 2 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Casing ID: | 930037695 | | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | 85 | | | | |
| Casing Diameter: | 2 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Well Yield Testing | | | | | |
| -- | -- | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|------|----|
| 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 | | | |
| -- | | -- | | | |
| Water Details | | | | | |
| -- | | -- | | | |
| Water ID: | | 933452852 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 82 | | | |
| Water Found Depth UOM: | | ft | | | |
| -- | | -- | | | |
| -- | | -- | | | |

[29](#) 1 of 1 WSW/232.6 87.2 Parcel A & B Ottawa ON EHS

Postal Code:
City: Ottawa
Address2:
Address1: Parcel A & B
Provstate: ON
Order No.: 20150622099
Addit. Info Ordered:
Report Date: 17-JUL-15
Report Type: Custom Report
Search Radius (km): .25

[30](#) 1 of 2 S/241.7 90.0 ON BORE

| | | | |
|--------------------------------|----------|-----------------------------|----------|
| Borehole ID: | 611952 | Type: | Borehole |
| Use: | | Status: | |
| Drill Method: | | UTM Zone: | 18 |
| Easting: | 445461 | Northing: | 5010992 |
| Location Accuracy: | | Orig. Ground Elev m: | 89.3 |
| Elev. Reliability Note: | | DEM Ground Elev m: | 91.2 |
| Total Depth m: | 18.6 | Primary Name: | |
| Township: | | Concession: | |
| Lot: | | Municipality: | |
| Completion Date: | MAY-1960 | Static Water Level: | -999.9 |
| Primary Water Use: | | Sec. Water Use: | |

--- Details ---

| | | | |
|-------------------------|-----------|----------------------|----------------|
| Stratum ID: | 218389650 | Top Depth(m): | 0.0 |
| Bottom Depth(m): | 14.0 | Stratum Desc: | CLAY,BOULDERS. |
| + | | | |
| Stratum ID: | 218389651 | Top Depth(m): | 14.0 |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|------------------|-------------------|----------------------------|------------------|---------------|--|
| Bottom Depth(m): | 18.6 | | | Stratum Desc: | LIMESTONE. 00060UNSPECIFIED. SEISMIC VELOCITY = 7200. BEDROCK. SEISMIC VELOCITY = 19500. |

| | | | | | |
|-------------------------------------|---------------------------------|---------|------|-------------------------|------|
| 30 | 2 of 2 | S/241.7 | 90.0 | lot 25 ON | WWIS |
| Well ID: | 1500353 | | | Lot: | 025 |
| Construction Date: | | | | Concession: | |
| Primary Water Use: | Domestic | | | Concession Name: | BF |
| Sec. Water Use: | | | | Easting NAD83: | |
| Final Well Status: | Water Supply | | | Northing NAD83: | |
| Specific Capacity: | | | | Zone: | |
| Municipality: | GLOUCESTER TOWNSHIP | | | UTM Reliability: | |
| County: | OTTAWA-CARLETON | | | | |
| Bore Hole Information | | | | | |
| -- | -- | | | | |
| Bore Hole ID: | 10022398 | | | | |
| DP2BR: | 46 | | | | |
| Code OB: | r | | | | |
| Code OB Description: | Bedrock | | | | |
| Open Hole: | | | | | |
| Date Completed: | 17-MAY-60 | | | | |
| Remarks: | | | | | |
| Zone: | 18 | | | | |
| East 83: | 445460.8 | | | | |
| North 83: | 5010992 | | | | |
| UTMRC: | 5 | | | | |
| UTMRC Description: | margin of error : 100 m - 300 m | | | | |
| Location Method: | p5 | | | | |
| Org CS: | | | | | |
| Elevation: | 91.17 | | | | |
| Elevrc: | | | | | |
| Elevrc Description: | | | | | |
| Location Source Date: | | | | | |
| Source Revision Comment: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Supplier Comment: | | | | | |
| Spatial Status: | | | | | |
| -- | -- | | | | |
| Overburden and Bedrock | | | | | |
| Materials Interval | | | | | |
| -- | -- | | | | |
| Formation ID: | 930989046 | | | | |
| Layer: | 1 | | | | |
| General Color: | | | | | |
| Most Common Material: | CLAY | | | | |
| Other Materials: | BOULDERS | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 46 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |
| Formation ID: | 930989047 | | | | |
| Layer: | 2 | | | | |
| General Color: | | | | | |
| Most Common Material: | LIMESTONE | | | | |
| Other Materials: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 46 | | | | |
| Formation End Depth: | 61 | | | | |
| Formation End Depth UOM: | ft | | | | |
| -- | -- | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elevation (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Method of Construction & Well Use | | | | | |
| -- | -- | -- | -- | -- | -- |
| Method Construction ID: | 961500353 | | | | |
| Method Construction Code: | 1 | | | | |
| Method Construction: | Cable Tool | | | | |
| Other Method Construction: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe Information | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pipe ID: | 10570968 | | | | |
| Casing Number: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| -- | -- | -- | -- | -- | -- |
| Construction Record - Casing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | 930037729 | | | | |
| Layer: | 1 | | | | |
| Open Hole or Material: | STEEL | | | | |
| Depth From: | | | | | |
| Depth To: | 47 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | -- | -- | -- | -- |
| Casing ID: | 930037730 | | | | |
| Layer: | 2 | | | | |
| Open Hole or Material: | OPEN HOLE | | | | |
| Depth From: | | | | | |
| Depth To: | 61 | | | | |
| Casing Diameter: | 4 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| -- | -- | -- | -- | -- | -- |
| Well Yield Testing | | | | | |
| -- | -- | -- | -- | -- | -- |
| Pump Test ID: | 991500353 | | | | |
| Pump Set At: | | | | | |
| Static Level: | 21 | | | | |
| Final Level After Pumping: | 24 | | | | |
| Recommended Pump Depth: | 24 | | | | |
| Pumping Rate: | 3 | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 3 | | | | |
| 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: | 933452870 | | | | |
| Layer: | 1 | | | | |
| Kind Code: | 1 | | | | |
| Kind: | FRESH | | | | |
| Water Found Depth: | 60 | | | | |
| Water Found Depth UOM: | ft | | | | |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |

Unplottable Summary

Total: **25** Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|-----|--------------------------------------|---|-------------------|---------|
| CA | | Lot 25 & 26, Concession 1 | Ottawa ON | |
| CA | | Lot 25 & 26, Concession 1 | Ottawa ON | |
| CA | Princiotta Tower Incorporated | Lot 256 and Part of Lot 257, Registered Plan 16 | Ottawa ON | |
| CA | Taggart Investments Inc. | Part of Lot 23, Concession 1, formerly Geographic Township of Cumberland | Ottawa ON | |
| ECA | A & B Bulat Homes Ltd. | Part of Lot 22 | City of Ottawa ON | |
| ECA | Richmond Village (South) Ltd. | Lot 22 | City of Ottawa ON | |
| EXP | DESCHENES CONSTRUCTION (ONTARIO) LTD | DOMTAR R BOYCE QUARRY LOT 25 | GLOUCESTER TWP ON | P0G 1K0 |
| EXP | DESCHENES CONSTRUCTION (ONTARIO) LTD | DOMTAR R BOYCE QUARRY LOT 25 | GLOUCESTER TWP ON | P0G 1K0 |
| EXP | DESCHENES CONSTRUCTION (ONTARIO) LTD | DOMTAR R BOYCE QUARRY LOT 25 | GLOUCESTER TWP ON | |
| EXP | DESCHENES CONSTRUCTION (ONTARIO) LTD | DOMTAR R BOYCEQUARRY LOT 25 | GLOUCESTER TWP ON | P0G 1K0 |
| GEN | KEN GORDON EXCAVATING LTD. 23-292 | LOT 25, CONC.1, TWP. OF GLOUCESTER, ONT BOX 310 (RIDEAU RD.) | 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 | City of Ottawa | Rideau Road (City Right of Way) | Ottawa ON | K1X 1B2 |
| GEN | City of Ottawa | Rideau Road (City Right of Way) | Ottawa ON | |
| 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 | 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 | KEN GORDON EXCAVATING LTD. | LOT 25, CONC.1, TWP. OF GLOUCESTER, ONT BOX 310 (RIDEAU RD.) | MANOTICK ON | K0A 2N0 |
| GEN | NATIONAL CAPITAL COMMISSION | LOT 25,26,27 | OTTAWA ON | K1P 1C7 |
| GEN | GVT. OF CAN. - ENVIRONMENT CANADA | RIVER RD. ENVIRONMENTAL TECHNOLOGY CTR. C/O 140 PROMENADE DU PORTAGE, PHASE IV | OTTAWA ON | K1A 0M3 |
| GEN | Taggart Construction | 5345 West River Rd. | Manotick ON | |
| PRT | KEN GORDON EXCAVATING LTD | LOT 25 CON 1 | MANOTICK ON | |
| RSC | | Part Lot 23, Township of Gloucester | Ottawa ON | |
| RSC | | Part Lot 23 | Ottawa ON | |
| SPL | O.C. Transpo <UNOFFICIAL> | Rideau Rd. at the Rideau Shopping Mall <UNOFFICIAL> | Ottawa ON | |
| SPL | FINES FLOUR | RIVER RD. GLOUCESTER GLOUCESTER PLANT RIVER ROAD | GLOUCESTER CITY ON | |

Unplottable Report

Site: Lot 25 & 26, Concession 1 Ottawa ON **Database:** CA

Certificate #: 6524-4QHTM6
Application Year: 00
Issue Date: 10/30/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1270449 Ontario Inc.
Client Address: 1187 Bank Street
Client City: Ottawa
Client Postal Code: K1S 3X7
Project Description: storm sewers construction on Saundres Ave; sanitary sewers construction on Pooler Ave, Orvigale Road, Porter St.
Contaminants:
Emission Control:

Site: Lot 25 & 26, Concession 1 Ottawa ON **Database:** CA

Certificate #: 3510-4QHTRG
Application Year: 00
Issue Date: 10/30/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1270449 Ontario Inc.
Client Address: 1187 Bank Street
Client City: Ottawa
Client Postal Code: K1S 3X7
Project Description: watermain construction on pooler ave, orvigale road, porter st.
Contaminants:
Emission Control:

Site: Princiotta Tower Incorporated
Lot 256 and Part of Lot 257, Registered Plan 16 Ottawa ON **Database:** CA

Certificate #: 4375-6FUJGJ
Application Year: 2005
Issue Date: 9/6/2005
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Taggart Investments Inc. **Database:** CA

Part of Lot 23, Concession 1, formerly Geographic Township of Cumberland Ottawa ON

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: **A & B Bulat Homes Ltd.**
Part of Lot 22 City of Ottawa ON

Database:
ECA

Record Type: ECA
PDF URL: <https://www.accessenvironment.ene.gov.on.ca/instruments/6799-A2SSH5-14.pdf>
Full Address: Part of Lot 22, Concession 12 City of Ottawa, Ontario
CofA Number: 8542-A3APVH
Date: 2015-10-15
Status: Approved
Project Type: Municipal and Private Sewage Works

Site: **Richmond Village (South) Ltd.**
Lot 22 City of Ottawa ON

Database:
ECA

Record Type: ECA
PDF URL: <https://www.accessenvironment.ene.gov.on.ca/instruments/2752-A4TMZE-14.pdf>
Full Address: Lot 22, Concession 2, 3 and 4 City of Ottawa, Ontario
CofA Number: 5426-A5PMR9
Date: 2016-01-06
Status: Approved
Project Type: Municipal and Private Sewage Works

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON P0G 1K0

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 5/26/1992
Instance Number: 10763238
Instance Type: FS Liquid Fuel Tank
Status: EXPIRED
Description:

Site: **DESCHENES CONSTRUCTION (ONTARIO) LTD**
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON P0G 1K0

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date: 10/3/1989
Instance Number: 10763253
Instance Type: FS Liquid Fuel Tank

Status: EXPIRED
Description:

Site: DESCHENES CONSTRUCTION (ONTARIO) LTD
DOMTAR R BOYCE QUARRY LOT 25 GLOUCESTER TWP ON

Database:
EXP

Instance ID: 37355
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:
Instance Number: 10763247
Instance Type: FS Piping
Status: EXPIRED
Description: FS Piping

Site: DESCHENES CONSTRUCTION (ONTARIO) LTD
DOMTAR R BOYCEQUARRY LOT 25 GLOUCESTER TWP ON P0G 1K0

Database:
EXP

Instance ID:
TSSA Program Area:
Maximum Hazard Rank:
Facility Type: FS Liquid Fuel Tank
Expired Date: 5/26/1992
Instance Number: 10763220
Instance Type: FS Liquid Fuel Tank
Status: EXPIRED
Description: FS Gasoline Station - Full Serve

Site: KEN GORDON EXCAVATING LTD. 23-292
LOT 25, CONC.1, TWP. OF GLOUCESTER, ONT BOX 310 (RIDEAU RD.) MANOTICK ON K0A 2N0

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON0951200
Approval Yrs: 94,95,96
SIC Code: 4215
SIC Description: EQUIP. RENTAL W. OP.

--- Details ---

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
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

PO Box Num:
Status:
Country:
Generator #: ON0992000
Approval Yrs: 92,93,97,98
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: City of Ottawa
Rideau Road (City Right of Way) Ottawa ON K1X 1B2

Database:
GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON4005608
Approval Yrs: As of Sep 2016
SIC Code:
SIC Description:

--- Details ---

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

Site: City of Ottawa
Rideau Road (City Right of Way) Ottawa ON

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON4005608
Approval Yrs: As of May 2015
SIC Code:
SIC Description:

--- Details ---

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

Site: RIDEAU CANAL
NORTHERN AREA OFFICE, 11/2 MI N REG RD 8 W OF RIVER RD, LONG ISLAND LOCK, PO BOX 400 MANOTICK ON K0A 2N0

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON0992000
Approval Yrs: 88,89,90
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: 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

PO Box Num:
Status:
Country:
Generator #: ON0992000
Approval Yrs: 99,00,01
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: **KEN GORDON EXCAVATING LTD.**
LOT 25, CONC.1, TWP. OF GLOUCESTER, ONT BOX 310 (RIDEAU RD.) MANOTICK ON K0A 2N0

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON0951200
Approval Yrs: 86,87,88,89,90
SIC Code: 4215
SIC Description: EQUIP. RENTAL W. OP.

--- Details ---
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: **NATIONAL CAPITAL COMMISSION**
LOT 25,26,27 OTTAWA ON K1P 1C7

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON9920165
Approval Yrs: 2010
SIC Code: 712190
SIC Description: Other Heritage Institutions

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

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

PO Box Num:
Status:
Country:
Generator #: ON0198101
Approval Yrs: 86,87,88,89,90
SIC Code: 8173
SIC Description: ENVIRON. ADMIN.

--- Details ---
Waste Code: 263
Waste Description: ORGANIC LABORATORY CHEMICALS
+
Waste Code: 148
Waste Description: INORGANIC LABORATORY CHEMICALS
+
Waste Code: 211
Waste Description: AROMATIC SOLVENTS
+
Waste Code: 212
Waste Description: ALIPHATIC SOLVENTS
+
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

+
Waste Code: 221
Waste Description: LIGHT FUELS
+
Waste Code: 222
Waste Description: HEAVY FUELS
+
Waste Code: 241
Waste Description: HALOGENATED SOLVENTS
+
Waste Code: 242
Waste Description: HALOGENATED PESTICIDES
+
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: *Taggart Construction*
5345 West River Rd. Manotick ON

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON9385675
Approval Yrs: 2009
SIC Code: 238910
SIC Description: Site Preparation Contractors

--- Details ---
Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: *KEN GORDON EXCAVATING LTD*
LOT 25 CON 1 MANOTICK ON

Database:
PRT

Location ID: 8398
Type: private
Expiry Date:
Capacity (L): 54552.00
Licence #: 0001050232

Site: *Part Lot 23, Township of Gloucester Ottawa ON*

Database:
RSC

Date Submitted: 07/05/01
Date Acknowledg.:
Date Returned: 07/23/01
Certification Date:
Soil Type:
Restoration Type:
Registration #:
Stratified (Y/N):
Criteria:
Consultant: DST Consulting Engineers Inc.
District Office: Ottawa
Intended Prop Use:
Current Property Use:
Certificate Prop Use #:
Applicable Standards:
Legal Description:
Prop. Identification #:
Entire legal prop. (y/n):
UTM Coordinates:
Latitude & Longitude:
Accuracy Estimate:
Measurement Method:

Site: Part Lot 23 Ottawa ON

Database:
RSC

Date Submitted: 07/05/01
Date Acknowledg.: 08/14/01
Date Returned:
Certification Date:
Soil Type: Medium/Fine
Restoration Type: Generic
Registration #:
Stratified (Y/N): N
Criteria: Res/parkland + Nonpotable
Consultant: DST Consulting Engineers Inc.
District Office: Ottawa
Intended Prop Use:
Current Property Use:
Certificate Prop Use #:
Applicable Standards:
Legal Description:
Prop. Identification #:
Entire legal prop. (y/n):
UTM Coordinates:
Latitude & Longitude:
Accuracy Estimate:
Measurement Method:
CPU Issued Sect 1686:

Site: O.C. Transpo <UNOFFICIAL>
Rideau Rd. at the Rideau Shopping Mall <UNOFFICIAL> Ottawa ON

Database:
SPL

Ref NO: 0358-6FESFG
Contaminant Code:
Contaminant Name: ETHYLENE GLYCOL (ANTIFREEZE)
Contaminant Quantity: 3785 L
Incident Cause: Pipe Or Hose Leak
Incident Dt: 8/19/2005
Incident Reason: Equipment Failure
Incident Summary: O.C. Transpo - 30 L anti-freeze to sewer.
MOE Reported Dt: 8/19/2005
Environmental Impact: Not Anticipated
Nature of Impact:
Receiving Medium: Land
SAC Action Class: Spills to Watercourses
Sector Source Type: Transport Truck
Site Municipality: Ottawa

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

Database:
SPL

Ref NO: 176
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 2/9/1988
Incident Reason: MATERIAL FAILURE
Incident Summary: OIL FROM ABOVE GROUND STORAGE TANK TO GROUND.
MOE Reported Dt: 2/9/1988
Environmental Impact: NOT ANTICIPATED
Nature of Impact: SOIL CONTAMINATION
Receiving Medium: LAND

SAC Action Class:
Sector Source Type:
Site Municipality:

20105

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

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

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System:

Provincial [AMIS](#)

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

Government Publication Date: 1800-Oct 2014

Anderson's Waste Disposal Sites:

Private [ANDR](#)

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private [AUWR](#)

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

Government Publication Date: Oct 31, 2015

Borehole:

Provincial [BORE](#)

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial [CA](#)

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial **CFOT**

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

Government Publication Date: Aug 31, 2016

Chemical Register:

Private **CHEM**

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

Government Publication Date: Oct 31, 2015

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-Jul 2016

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-Oct 2016

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-Jun 2014

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: Jul 31, 2016

Environmental Registry:

Provincial **EBR**

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

Government Publication Date: 1994-Oct 2016

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: Jul 31, 2016

Environmental Effects Monitoring:

Federal

EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

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

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System:

Federal

EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities:

Provincial

EXP

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

Government Publication Date: Aug 31, 2016

Federal Convictions:

Federal

FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: June 2000-Oct 2015

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

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

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank:

Provincial

FST

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

Government Publication Date: Aug 31, 2016

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

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

Government Publication Date: 2013 - Dec 2014

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial

INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Aug 31, 2016

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

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

Government Publication Date: 1846-Feb 2016

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

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

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

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

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Wells:

Federal

[NEBW](#)

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

[NEES](#)

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

[NPCB](#)

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

[NPRI](#)

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

Government Publication Date: Dec 31, 2014

Oil and Gas Wells:

Private

[OGW](#)

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

Government Publication Date: 1988-Jun 2016

Ontario Oil and Gas Wells:

Provincial

[OOGW](#)

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

Government Publication Date: 1800-Aug 2015

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-Oct 2016

Canadian Pulp and Paper:

Private

[PAP](#)

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

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

Parks Canada Fuel Storage Tanks:

Federal

[PCFT](#)

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial

[PES](#)

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

Government Publication Date: 1988-Jun 2013

TSSA Pipeline Incidents:

Provincial

[PINC](#)

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Aug 31, 2016

Private and Retail Fuel Storage Tanks:

Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994-Oct 2016

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

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

Government Publication Date: 1986-2013

Record of Site Condition:

Provincial RSC

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

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

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

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: Oct 31, 2015

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-Jan 2016

Wastewater Discharger Registration Database:

Provincial SRDS

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

Government Publication Date: 1990-2014

Anderson's Storage Tanks:

Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Mar 2007

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

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

Government Publication Date: Aug 31, 2016

Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

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

Government Publication Date: Jul 31, 2016

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

WDSH

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

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

WWIS

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

Government Publication Date: Jun 30, 2016

Definitions

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

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

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

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

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

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

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

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

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

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

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

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



APPENDIX B

Regulatory Responses

**Ministry of Natural
Resources and Forestry**

Kemptville District

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

**Ministère des Richesses
naturelles et des Forêts**

District de Kemptville

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télééc.: 613 258-3920



Wed. Dec 28, 2016

James Doyle
Golder Associates
1931 Robertson Rd
Ottawa, Ontario
K2H 5B7
(613) 592-9600 ext 3222
james_doyle@golder.com

Attention: James Doyle

Subject: Information Request - Developments
Project Name: Claridge Riverside South proposed development (housing)
Site Address: River Rd., 500 m north of Rideau Rd., Ottawa
Our File No. 2016_GLO-3869

Natural Heritage Values

The Ministry of Natural Resources and Forestry (MNR) Kemptville District has carried out a preliminary review of the above mentioned area in order to identify any potential natural resource and natural heritage values.

The following Natural Heritage values were identified for the general subject area:

- Fish Nursery, Blue Gill Nursery Area
- Fish Nursery, Pumpkinseed Nursery Area
- Fish Nursery, Rock Bass Nursery Area
- Fish Nursery, Smallmouth Bass Nursery Area
- Fish Nursery, Walleye Nursery Area
- River, Rideau River (rivière Rideau)
- Spawning Area, Walleye Spawning Area

Municipal Official Plans contain information related to natural heritage features. Please see the local municipal Official Plan for more information, such as specific policies and direction pertaining to activities which may impact natural heritage features. For planning advice or Official Plan interpretation, please contact the local municipality. Many municipalities require environmental impact studies and other supporting studies be carried out as part of the development application

Kemptville District

District de Kemptville

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télé.: 613 258-3920

process to allow the municipality to make planning decisions which are consistent with the Provincial Policy Statement (PPS, 2014).

The MNRF strongly encourages all proponents to contact partner agencies and appropriate municipalities early on in the planning process. This provides the proponent with early knowledge regarding agency requirements, authorizations and approval timelines; Ministry of the Environment and Climate Change (MOECC) and the local Conservation Authority may require approvals and permitting where natural values and natural hazards (e.g., floodplains) exist.

As per the Natural Heritage Reference Manual (NHRM, 2010) the MNRF strongly recommends that an ecological site assessment be carried out to determine the presence of natural heritage features and species at risk and their habitat on site. The MNRF can provide survey methodology for particular species at risk and their habitats.

The NHRM also recommends that cumulative effects of development projects on the integrity of natural heritage features and areas be given due consideration. This includes the evaluation of the past, present and possible future impacts of development in the surrounding area that may occur as a result of demand created by the presently proposed project.

In Addition, the following Fish species were identified: alewife, banded killifish, black crappie, blackchin shiner, blacknose shiner, bluegill, bluntnose minnow, brassy minnow, brook silverside, brook stickleback, brown bullhead, Carps and Minnows, common carp, common shiner, creek chub, eastern silvery minnow, emerald shiner, fallfish, fathead minnow, golden shiner, greater redhorse, johnny darter/tesselated darter, largemouth bass, logperch, longnose dace, mimic shiner, Moxostoma sp., muskellunge, northern pike, northern redbelly dace, rock bass, shorthead redhorse, silver redhorse, smallmouth bass, spottail shiner, trout-perch, walleye, white sucker.

Wildland Fire

MNRF woodland data shows that the site contains woodlands. The lands should be assessed for the risk of wildland fire as per PPS 2014, Section 3.1.8 "*Development shall generally be directed to areas outside of lands that are unsafe for development due to the presence of hazardous forest types for wildland fire. Development may however be permitted in lands with hazardous forest types for wildland fire where the risk is mitigated in accordance with wildland fire assessment and mitigation standards*". Further discussion with the local municipality should be carried out to address how the risks associated with wildland fire will be covered for such a development proposal. Please see the Wildland Fire Risk Assessment and Mitigation Guidebook (2016) for more information.

Significant Woodlands

Section 2.1.5 b) of the PPS states: *Development and site alteration shall not be permitted in significant woodlands unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions.* The 2014 PPS directs that significant woodlands must be identified following criteria established by the Ontario Ministry of Natural Resources and Forestry, i.e. the Natural Heritage Reference Manual (NHRM), 2010. Where the local or County Official Plan has not yet updated significant woodland mapping to reflect the 2014 PPS, all wooded areas should be reviewed on a site specific basis for significance. The MNRF Kemptville District modelled locations of significant woodlands in 2011 based on NHRM criteria. The presence of significant woodland on site or within 120 metres should trigger an assessment of the impacts to the feature and its function from the proposed development.

Significant Wildlife Habitat

Section 2.1.5 d) of the PPS states: *Development and site alteration shall not be permitted in significant wildlife habitat unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions.* It is the responsibility of the approval authority to identify significant wildlife habitat or require its identification. The MNRF has several guiding documents which may be useful in identification of significant wildlife habitat and characterization of impacts and mitigation options:

- Significant Wildlife Habitat Technical Guide, 2000
- The Natural Heritage Reference Manual, 2010
- Significant Wildlife Habitat Mitigation Support Tool, 2014
- Significant Wildlife Habitat Criteria Schedule for Ecoregion 5E and 6E, 2015

The habitat of special concern species (as identified by the Species at Risk in Ontario list) and Natural Heritage Information Centre tracked species with a conservation status rank of S1, S2 and S3 may be significant wildlife habitat and should be assessed accordingly.

Water

If any in-water works are to occur, there are timing windows for which work in water should not take place (see below). Appropriate measures should be taken to minimize and mitigate impact on water quality and fish habitat, including:

- installation of sediment and erosion control measures;
- avoiding the removal, alteration, or covering of substrates used for fish spawning, feeding, over-wintering or nursery areas; and
- debris control measures to manage falling debris (e.g. spalling).

Kemptville District

District de Kemptville

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télé.: 613 258-3920

Timing windows (no in-water works) in MNRF Kemptville District*:

Warmwater and cool water → March 15 – June 30
St. Lawrence River & Ottawa River → March 15 – July 15
Coldwater → October 1 – May 31
Big Rideau Lake & Charleston Lake → October 1 – June 30

* Please note: Additional timing restrictions may apply as they relate to endangered and threatened species for works in both water and wetland areas.

Timing windows when in-water work is restricted – based on species presence:

| | FISH SPECIES | TIMING WINDOW (No in-water works) |
|----------------|--|-----------------------------------|
| Spring: | Walleye | March 15 to May 31 |
| | Northern Pike | March 15 to May 31 |
| | Lake Sturgeon | May 1 to June 30 |
| | Muskellunge | March 15 to May 31 |
| | Largemouth/Smallmouth Bass | May 1 to July 15 |
| | Rainbow Trout | March 15 to June 15 |
| | Other /Unknown Spring Spawning Species | March 15 to July 15 |

| | FISH SPECIES | TIMING WINDOW (No in-water works) |
|--------------|--------------------------------------|-----------------------------------|
| Fall: | Lake Trout | October 1 to May 31 |
| | Brook Trout | October 1 to May 31 |
| | Pacific Salmon | September 15 to May 31 |
| | Lake Whitefish | October 15 to May 31 |
| | Lake Herring | October 15 to May 31 |
| | Other /Unknown Fall Spawning Species | October 1 to May 31 |

Additional approvals and permits may be required under the Fisheries Act. Please contact Fisheries and Oceans Canada to determine requirements and next steps. There may also be approvals required by the local Conservation Authority or Transport Canada. As the MNRF is responsible for the management of provincial fish populations, we request ongoing involvement in such discussions in order to ensure population conservation.

Species at Risk

A review of the Natural Heritage Information Centre (NHIC) and internal records and aerial photograph interpretation indicate that there is a potential for the following threatened (THR) and/or endangered (END) species on the site or in proximity to it:

Kemptville District

District de Kemptville

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télééc.: 613 258-3920

- Bank Swallow (THR)
- Barn Swallow (THR)
- Blanding's Turtle (THR)
- Bobolink (THR)
- Butternut (END)
- Chimney Swift (THR)
- Eastern Meadowlark (THR)
- Eastern Small-footed Myotis (END)
- Little Brown Bat (END)
- Northern Long-eared Bat (END)
- Tri-Colored Bat (END)

All endangered and threatened species receive individual protection under section 9 of the ESA and receive general habitat protection under Section 10 of the ESA, 2007. Thus any potential works should consider disturbance to the individuals as well as their habitat (e.g. nesting sites). General habitat protection applies to all threatened and endangered species. Note some species in Kemptville District receive regulated habitat protection. The habitat of these listed species is protected from damage and destruction and certain activities may require authorization(s) under the ESA. For more on how species at risk and their habitat is protected, please see: <https://www.ontario.ca/page/how-species-risk-are-protected>.

If the proposed activity is known to have an impact on any endangered or threatened species at risk (SAR), or their habitat, an authorization under the ESA may be required. It is recommended that MNR/Kemptville be contacted prior to any activities being carried out to discuss potential survey protocols to follow during the early planning stages of a project, as well as mitigation measures to avoid contravention of the ESA. Where there is potential for species at risk or their habitat on the property, an Information Gathering Form should be submitted to Kemptville MNR/Kemptville at sar.kemptville@ontario.ca.

The Information Gathering Form may be found here:

<http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/FormDetail?OpenForm&ACT=RDR&TAB=PROFILE&ENV=WWE&NO=018-0180E>

For more information on the ESA authorization process, please see:

<https://www.ontario.ca/page/how-get-endangered-species-act-permit-or-authorization>

Habitat has been identified within the project area that appears suitable for one or more species listed by SARO as Special Concern (SC). One or more special concern species has been

Kemptville District

District de Kemptville

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télééc.: 613 258-3920

documented to occur either on the site or nearby. Species listed as special concern are not protected under the ESA, 2007. However, please note that some of these species may be protected under the Fish and Wildlife Conservation Act and/or Migratory Birds Convention Act. Again, the habitat of special concern species may be significant wildlife habitat and should be assessed accordingly. Species of special concern for consideration:

- Canada Warbler (SC)
- Common Nighthawk (SC)
- Eastern Ribbonsnake (SC)
- Milksnake (SC)
- Monarch (SC)
- Short-eared Owl (SC)
- Snapping Turtle (SC)

If any of these or any other species at risk are discovered throughout the course of the work, and/or should any species at risk or their habitat be potentially impacted by on site activities, MNRF should be contacted and operations be modified to avoid any negative impacts to species at risk or their habitat until further direction is provided by MNRF.

Please note that information regarding species at risk is based largely on documented occurrences and does not necessarily include an interpretation of potential habitat within or in proximity to the site in question. Although this data represents the MNRF's best current available information, it is important to note that a lack of information for a site does not mean that additional features and values are not present. It is the responsibility of the proponent to ensure that species at risk are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the activities carried out on the site.

The MNRF continues to strongly encourage ecological site assessments to determine the potential for SAR habitat and occurrences. When a SAR or potential habitat for a SAR does occur on a site, it is recommended that the proponent contact the MNRF for technical advice and to discuss what activities can occur without contravention of the Act. For specific questions regarding the Endangered Species Act (2007) or SAR, please contact MNRF Kemptville District at sar.kemptville@ontario.ca.

The approvals processes for a number of activities that have the potential to impact SAR or their habitat have recently changed. For information regarding regulatory exemptions and associated online registration of certain activities, please refer to the following website: <https://www.ontario.ca/page/how-get-endangered-species-act-permit-or-authorization>.

**Ministry of Natural
Resources and Forestry**

Kemptville District

10 Campus Drive
Postal Box 2002
Kemptville ON K0G 1J0
Tel.: 613 258-8204
Fax: 613 258-3920

**Ministère des Richesses
naturelles et des Forêts**

District de Kemptville

10, promenade Campus
Case postale, 2002
Kemptville ON K0G 1J0
Tél.: 613 258-8204
Télééc.: 613 258-3920



Please note: The advice in this letter may become invalid if:

- The Committee on the Status of Species at Risk in Ontario (COSSARO) re-assesses the status of the above-named species OR adds a species to the SARO List such that the section 9 and/or 10 protection provisions apply to those species; or
- Additional occurrences of species are discovered on or in proximity to the site.

This letter is valid until: Thu. Dec 28, 2017

The MNRF would like to request that we continue to be circulated on information with regards to this project. If you have any questions or require clarification please do not hesitate to contact me.

Sincerely,

Erin Seabert
Management Biologist
erin.seabert@ontario.ca

Encl.\
-ESA Infosheet
-NHIC/LIO Infosheet

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

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



OTT File No: 98

**INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

| | |
|---|---|
| Attention: James Doyle Golder Associates | Your File: Date Received: November 7, 2016 |
|---|---|

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

| | | |
|---|---------------|---|
| <u>PROPERTY OWNER AND LOCATION</u> | | |
| Location: | Municipality: | Ottawa |
| | Address: | Lot 23, 24 Concession Broken Front Township Gloucester |

| |
|--|
| <u>INDEX OF NAMES FOR ORDERS</u> |
| We have searched the <i>Ottawa</i> District Index Record of Active Orders under the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and the Pesticides Act (PA) issued to: and the following information has been found: |
| <input checked="" type="checkbox"/> No Active Orders are outstanding |
| Please Note: <i>For information related to any ministry Orders issued to the property in question, please request this information from the property owner. If you would like further information regarding a specific Order issued, please contact the Ottawa District Office.</i> |
| Date of Search: November 28, 2016 |

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

**INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

INDEX OF NAMES FOR APPROVALS ISSUED SINCE 1999

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

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

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

www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en

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

Please Note:

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

No Approvals have been issued.

Date of Search: November 28, 2016

**INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

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

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

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

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

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

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

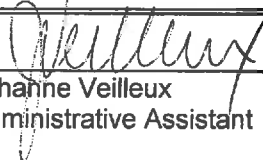
Additional ministry information can be accessed through the **Government of Ontario's Open Data Catalogue**: <http://www.ontario.ca/government/open-data-ontario>

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

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

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

Thank you for your inquiry.

| | |
|---------------|---|
| Signature: |  |
| Contact Name: | Johanne Veilleux |
| Title: | Administrative Assistant |
| Address: | Ministry of the Environment and Climate Change 2430 Don Reid Drive, Unit 103 Ottawa, ON K1H 1E1 |
| Phone: | (613) 521-3450 Ext 221 |
| Date: | November 28, 2016 |
| | E&OE |

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

Dumas, Melissa

From: Ruchi Chohan <rchohan@tssa.org> on behalf of Public Information Services <publicinformationservices@tssa.org>
Sent: Wednesday, November 09, 2016 7:28 AM
To: Doyle, James
Subject: RE: Information Request for Golder Project 1658448

Hello James,

Thank you for your inquiry.

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

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Thanks you and have a great day!

Ruchi



Ruchi Chohan | Public Information Agent

Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-3417 | Fax: +1-416-231-4903 | E-Mail: rchohan@tssa.org
www.tssa.org



From: Doyle, James [mailto:James_Doyle@golder.com]
Sent: Monday, November 07, 2016 3:16 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Information Request for Golder Project 1658448

Hello,

We are in the process of preparing a Phase I Environmental Site Assessment for the property located at:

City of Ottawa pins: 043300073 and 043300076; Part of Lots 23 and 24, Broken Front Concession (Rideau Front), Geographic Township of Gloucester, City of Ottawa

I have attached a map of the property boundary. The property is not associated with a municipal address, however it is near 807 River Road, Ottawa, ON.

Could you please review your records to determine if any bulk fuel underground storage tanks (USTs) were registered on or near the proposed alignment. Could you please check your records for the properties located adjacent to the Right of Way at the following addresses in Ottawa, Ontario:

Site:
As above

Additional Addresses:
789, 805, 807, 809, 811 River Road
673 Rideau Road

Thanks,
James

James Doyle (B.Eng., M.A.Sc.) | Environmental Consultant | **Golder Associates Ltd.**
1931 Robertson Road, Ottawa, Ontario, Canada, K2H 5B7
T: +1 (613) 592-9600 | **D:** +1 (613) 592-9600 x3222 | **F:** +1 (613) 592-9601 | **C:** +1 (613) 298-0765 | **E:**
James_Doyle@golder.com
www.golder.com

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation

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.



APPENDIX C

Site Photos



APPENDIX C

Site Photographs



Photo 1: Burn bin in farm compound



Photo 2: Drum of unknown contents and engine oil



APPENDIX C
Site Photographs



Photo 3: Empty drum and AST storage in farm compound



Photo 4: Garage building encroaching the Phase One Property



APPENDIX C
Site Photographs



Photo 5: Northern on-Site vacant land and view of vacant land adjacent to the Site, facing north (2)



Photo 6: Northern on-Site vacant land and view of vacant land adjacent to the Site, facing north



APPENDIX C

Site Photographs



Photo 7: Off-site waste oil (interior of garage building encroaching the Phase One Property)



Photo 8: On-site waste



APPENDIX C
Site Photographs



Photo 9: Out of service ASTs (2)



Photo 10: Out of service ASTs



APPENDIX C
Site Photographs



Photo 11: Out of service siloh in farm compound



Photo 12: Road maintenance and salt storage building



APPENDIX C
Site Photographs



Photo 13: Shed in farm compound



Photo 14: Tote, drum, and miscellaneous storage in farm compound



APPENDIX C
Site Photographs



Photo 15: View of adjacent agricultural fields east of site, facing east



Photo 16: View of eastern portion of Site, facing west



APPENDIX C
Site Photographs



Photo 17: View of Phase One Property drainage ditch, facing north



Photo 18: View of Phase One Property western agricultural fields, facing east



APPENDIX C
Site Photographs



Photo 19: View of residential properties adjacent west of Site, facing southwest



Photo 20: View of residential properties adjacent west of Site, facing west



APPENDIX C
Site Photographs



Photo 21: View of vacant lands east of western agricultural fields, facing east



Photo 22: Waste and brush pile in farm compound



APPENDIX C
Site Photographs



Photo 23: Waste in farm compound



Photo 24: Western agricultural fields, facing southwest





APPENDIX D

Aerial Photographs



LEGEND

-  PHASE ONE SITE
-  PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO**

TITLE
1965 AIR PHOTO

CONSULTANT



YYYY-MM-DD 2016-11-14

DESIGNED ----

PREPARED JEM

REVIEWED KPH

APPROVED KPH

PROJECT NO.
1658448



PHASE
2000

REV.
0

APPENDIX
D1



LEGEND

-  PHASE ONE SITE
-  PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO**

TITLE
1983 AIR PHOTO

CONSULTANT



YYYY-MM-DD 2016-11-14

DESIGNED ----

PREPARED JEM

REVIEWED KPH

APPROVED KPH

PROJECT NO.
 1658448

PHASE
 2000

REV.
 0

APPENDIX



D2

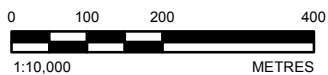
Path: N:\Active\Spatial_1m\ClaridgeHomes\Riverside\ Lands\GIS\MXD\1658448\Phase2000_Phase1_ESA\1658448-2000+RS-0010.mxd

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



LEGEND

-  PHASE ONE SITE
-  PHASE ONE STUDY AREA



NOTE(S)
 1. THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDBER ASSOCIATES LTD. REPORT NO. 1658448-2000.

REFERENCE(S)
 1. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
 COORDINATE SYSTEM: MTM ZONE 9 VERTICAL DATUM: CGVD28

CLIENT
CLARIDGE HOMES CORPORATION

PROJECT
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
 RIVERSIDE SOUTH LANDS - 805 AND 509 RIVER ROAD
 OTTAWA, ONTARIO**

TITLE
1991 AIR PHOTO

CONSULTANT



YYYY-MM-DD 2016-11-14

DESIGNED ----

PREPARED JEM

REVIEWED KPH

APPROVED KPH

PROJECT NO.
1658448

PHASE
2000

REV.
0

APPENDIX

D3

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

For more information, visit golder.com

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

solutions@golder.com
www.golder.com

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

