



August 2015

REPORT ON

Phase I Environmental Site Assessment 980 Earl Armstrong Road Ottawa, Ontario

Submitted to:

Riverside South Development Corporation
2193 Arch Street
Ottawa, Ontario
K1G 2H5

Attention: Ms. Mary Jarvis

REPORT



Report Number: 14-1122-0011/2000

Distribution:

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Executive Summary

Golder Associates Ltd. (Golder) was retained by Riverside South Development Corporation (RSDC) to conduct a Phase I Environmental Site Assessment (Phase I ESA) for the property located at 980 Earl Armstrong Road in Ottawa, Ontario (hereinafter collectively referred to as the “Site” or “Phase One Property”) as shown on Figures 1 and 2. The Site is located south of Earl Armstrong Road, southwest of the intersection of Earl Armstrong and Limebank Road. The Site is currently vacant and has an approximate area of 27.84 hectares (68.79 acres). The general Site location is shown on Figure 1.

This Phase I ESA was completed in accordance with the Ontario Regulation (O.Reg.) 153/04 (as amended) and is an upgrade of the Phase I ESA completed in accordance with the Canadian Standards Association (CSA) document entitled Phase I ESA, Z768 01 (R2006) conducted for the Site in April 2009 for RSDC by Golder. It is understood that this Phase I ESA is being carried out for Subdivision Approval purposes with the City of Ottawa (the City) and that a Record of Site Condition (RSC) pursuant to Ontario Regulation 153/04 – Records of Site Condition – Part XV.1 of the Act, made under the Environmental Protection Act, will not be filed for the Site. The present report is an update of Golder’s 2009 Phase I ESA to the requirements stipulated by O.Reg. 153/04 (as amended) in order to comply with the City’s current Official Plan requirements that all Phase I ESA reports that are submitted for Subdivision Approval have to be completed in accordance with the O.Reg.153/04 as amended. *The Executive Summary highlights key points from the report only; for complete information and findings, as well as the limitations, the reader should examine the complete report.*

The Phase I ESA was completed in accordance with the requirements of Schedule D of O.Reg.153/04 as amended and included a review of available current and historical information regarding the Site and surrounding properties, a Site reconnaissance, interviews, evaluation of readily available information, and reporting, subject to the limitations outlined in Section 8.0 of this report. The Site is not considered an enhanced investigation property as defined by O. Reg. 153/04.

Based on the information provided by the Site owner and the 2015 subdivision survey plan dated July 10, 2015, the legal description of the Site is Part of Lot 21, Concession 1 (Rideau Front), Geographic Township of Gloucester, City of Ottawa. The Site municipal address is 980 Earl Armstrong Road, Ottawa, Ontario, and the Site is a portion of this municipal address.

At the time of the Site visit, on January 31, 2014, the Site was a vacant lot; no operations or any other activities were being carried out at the Site at the time of the Site visit.

Historically, the Site was used as agricultural land, with a single associated farm house being located in the northwest section of the Site.

At the time of the Phase I ESA, the neighbouring properties within the Phase One Study Area were primarily vacant and residential lands.

Based on the information collected as part of this Phase One ESA, no areas of potential environmental concern (APECs) were identified on the Site and no potentially contaminating activities (PCAs) were identified on the Site or in the Phase One Study Area that may result in an APEC for the Site. A Phase II ESA is not recommended to be carried out at the Site.

The following is recommended in conjunction with developing the Site:

- Should a water well(s) be found during development of the Site, they should be decommissioned as per *Ontario Regulation (O. Reg.) 903*; and,

Should a septic system(s) be found during development of the Site, it should be properly decommissioned.



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1.0 INTRODUCTION

1.1 Phase I Property Information

Golder Associates Ltd. (Golder) was retained by Riverside South Development Corporation (RSDC) to conduct a Phase I Environmental Site Assessment (Phase I ESA) for the property located at 980 Earl Armstrong Road in Ottawa, Ontario (hereinafter collectively referred to as the “Site” or “Phase One Property”) as shown on Figures 1 and 2. The Site is located south of Earl Armstrong Road, southwest of the intersection of Earl Armstrong and Limebank Road. The Site is currently vacant and has an approximate area of 27.84 hectares (68.79 acres). The general Site location is shown on Figure 1.

Based on the information provided by the Site owner and the 2015 subdivision survey plan dated July 10, 2015, the legal description of the Site is Part of Lot 21, Concession 1 (Rideau Front), Geographic Township of Gloucester, City of Ottawa. The Site municipal address is 980 Earl Armstrong Road, Ottawa, Ontario, it should be noted that the Site is a portion of this municipal address.

Contact information for the Site including the current owner is provided as follows:

Table 1: Phase I ESA Property Information

Address	Current Site Owner	Contact Information
980 Earl Armstrong Road, Ottawa, ON	Riverside South Development Corporation	Mary Jarvis Riverside South Development Corporation 2193 Arch Street Ottawa, Ontario K1G 2H5 Email: mjarvis@urbandale.com Tel: 613-731-6331

A Site plan is provided as Figure 2. A plan of survey for the Site dated July 10, 2015 and based on the 2015 subdivision plan is provided in Appendix A.



2.0 SCOPE OF INVESTIGATION

A Phase I 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 subject property and also a review of relevant and readily available environmental information for the surrounding properties within 250 m radius of the boundaries of the Site (collectively referred as Phase I Study Area).

According to Ontario Regulation (O.Reg. 153/04) the objectives of a Phase I ESA are:

- 1) To develop a preliminary determination of the likelihood that one or more contaminants have affected any land or water on, in or under the Phase I Study Area.
- 2) To assess the need for Phase II Environmental Site work.
- 3) To provide a basis for carrying out any Phase II Environmental Site work.
- 4) Provide adequate preliminary information about environmental conditions in the land or water on, in or under the Phase One Property for the conduct of a risk assessment following completion of a Phase II ESA, if needed.
- 5) To 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.

This Phase I ESA was completed in accordance with the Ontario Regulation (O.Reg.) 153/04 (as amended) and is an upgrade of the Phase I ESA completed in accordance with the Canadian Standards Association (CSA) document entitled Phase I ESA, Z768 01 (R2006) conducted for the Site in April 2009 for RSDC by Golder. It is understood that this Phase I ESA is being carried out for Subdivision Approval purposes with the City of Ottawa (the City) and that a Record of Site Condition (RSC) pursuant to *Ontario Regulation 153/04 – Records of Site Condition – Part XV.1 of the Act*, made under the *Environmental Protection Act*, will not be filed for the Site. The present report is an update of Golder's 2009 Phase I ESA to the requirements stipulated by O.Reg. 153/04 (as amended) in order to comply with the City's current Official Plan requirements that all Phase I ESA reports that are submitted for Subdivision Approval have to be completed in accordance with the O.Reg.153/04 as amended.



3.0 HISTORICAL RECORDS REVIEW

3.1 General

3.1.1 Phase I Study Area Determination

For the purpose of this Phase I ESA, the Phase I Study Area is defined as the Site and the area contained within a 250 m outward radius of the Site boundaries. Based on Golder's review of the historical and current information completed as part of the Phase I ESA for the area surrounding the Site and observations made during the Site visit, it was concluded that assessing information pertaining to properties within 250 m of the Site was sufficient to achieve the objective of the Phase I ESA.

3.1.2 First Developed Use Determination

Based on the information obtained in documentation reviewed (discussed in the next sections of this report), the Site was developed prior to 1879 with a single farm house which was demolished between 1973 and 1985. The remainder of the Site has not been developed and has only been used for agricultural purposes. The following rationale was used to support that the Site was partially developed in 1879 while the remainder of the Site has never been developed:

- Nineteenth century map, H. Belden's 1879 map of Carleton County (Belden, H. and Co. 1879 Illustrated Historical Atlas of the County of Carleton. Reprinted 1971. Port Elgin: Ross Cumming) shows a single house in the area where the Site is located; and,
- The 1962 aerial photograph shows a single farmhouse located on the Site with farmer's fields encompassing the rest of the Site. The subsequent aerial photographs (1985, 1992, 2002 and 2011) show the Site as vacant land.

3.1.3 Review of Fire Insurance Maps and Reports

Research was carried out at the National Archives in Ottawa, Ontario to review fire insurance plans or drawings for the Site. No fire insurance plans were available for the Site.

3.1.4 Chain of Title

Chain of Title information was not ordered as it was deemed that the information from the other records review would satisfy the objectives of the records search and that the information to be provided in a Chain of Title would not contribute additional environmental information relevant to the Phase I ESA.

3.1.5 Environmental Reports

A Phase I ESA in accordance with CSA Phase I ESA Standard Z768 01 was completed by Golder in 2009 for a larger property which contained the Site under current assessment described in the environmental report entitled *"Phase I Environmental Site Assessment, Selected Lands South and North of Earl Armstrong Road between River Road and Mosquito Creek, Ottawa (Gloucester), Ontario"* prepared for RSDC, dated April 2009 (2009 Golder Phase I ESA). The Phase I ESA was completed for a site plan approval application to the City. At the time of the 2009 Golder Phase I ESA, the Site, and the larger property which this Site was a part of, were a vacant lot. Additional investigations by Golder in 2009 summarized in reports entitled *"Documentation Related to the Removal of Surface Debris on the Land South of Earl Armstrong Road between Mosquito Creek and River Road, Ottawa, Ontario"* and *"Shallow Test Pit Investigation at Two*



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Farmsteads on the Land South of Earl Armstrong Road between Mosquito Creek and River Road, Ottawa, Ontario” were completed to address the potential issues identified in the 2009 Golder Phase I ESA.

2009 Golder Phase I ESA

The review of the historical information pertaining to the current Site and surrounding lands within 250 metres of the Site indicated the following:

- The Site contained an old farmhouse, which may have had a storage tank(s), the foundations of which may still remain on Site;
- The parking and office area for Urbandale, located approximately 200m northwest of the Site contained a significant amount of surface debris such as wood, metal, plastic, and old railway ties, the removal of which was recommended; and,
- Due to its use as agricultural lands, pesticides may have been applied to the Site.

2009 Golder Documentation of the Removal of Surface Debris

- The review of this document identified that removal of the surface debris noted during the 2009 Golder Phase I ESA was completed.

2009 Golder Shallow Test Pit Investigation

- The review of this document indicated that three test pits were excavated in the area near the former farm house on Site. The test pits were excavated approximately 0.6 metres into native soil, and no indication of buried oil tanks or hydrocarbon impacts were noted.
- Subsurface conditions were generally 0.2m of topsoil, underlain by clay native material to the bottom of the excavations (0.6m bgs).

3.1.6 Review of Street Directories

A review of street directories at the National Archives in Ottawa, Ontario was completed for the Site and addresses within approximately 250 m of the Site for years 1986, 1993, 1999/2000, 2004/2005, 2009/2010. Based on the review of the street directories the following was noted:

- The Site and majority of the surrounding land was vacant or agricultural land; and,
- Some of the surrounding land has been occupied by residential housing, and construction offices.

The review of the street directories indicated that the Site has been vacant since 1986, and the surrounding areas have been vacant land, residential houses, or construction offices. The review of the street directories did not identify any issues of potential environmental concern.

3.2 Environmental Source Information

3.2.1 Ministry of the Environment Correspondence

The Ontario Ministry of Environment (MOE) was contacted (refer to copy of correspondence in Appendix B) to provide an Index Report with respect to active orders and approvals for the Site as detailed below:



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

A MOE response was received on April 12, 2015. The MOE's response indicated that no Active Orders or Certificate of Approvals have been issued for the Site.

3.2.2 City of Ottawa Correspondence

As part of the 2014 Golder Phase I ESA, Golder forwarded a request to the City of Ottawa (City) (refer to copy of correspondence in Appendix B) for the following information for the Site:

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

A formal response from the City was not received by Golder at the time of issuing this report. When a formal response to Golder's request for information is received, it will be reviewed. If, in Golder's opinion, the response details any issues of potential environmental concern with respect to the Site, a copy will be forwarded to RSDC (with a brief discussion) so that it can be appended to this report.

As part of the 2009 Golder Phase I ESA, a City response was received on June 5, 2009. The City's response did not identify any potential environmental concerns for the Site.

3.2.3 City of Ottawa Document Review

Prior to the 2001 amalgamation, the City did not have a consolidated database of environmental concerns for City properties and typically referred all inquiries to the *1988 Mapping and Assessment of Former Industrial Sites, City of Ottawa, Intera Technologies Ltd.* (hereafter known as the "1988 Intera Report"). This report describes an inventory and assessment study of former industrial sites that were active in the former (prior to the 2001 amalgamation) City of Ottawa from 1850 to 1984 that likely produced or handled hazardous wastes and materials. The sites were subsequently screened to identify higher priority sites which were subdivided into Group I, Group II and Group III sites.

- Group I Sites – Sufficient evidence to indicate that wastes are present on-Site and that there is a high potential for environmental impact;
- Group II Sites – Sufficient evidence to indicate that wastes are likely remnant on-Site; and,
- Group III Sites – Unlikely that significant quantities of waste exist at the Site today and therefore the potential for environmental impact is minimal.



Since the Site was not within the former City of Ottawa municipal boundary (prior to 2001 amalgamation) a review of the 1988 Intera report was not performed as a part of this Phase I ESA.

3.2.4 Ministry of Natural Resources (MNR)

An information request was sent to the Ministry of Natural Resources (MNR) January 29, 2014. Records requested included any information relating to areas of natural significance in the vicinity of the Site, as well as any other environmental concerns that may be related to the Site and surrounding area.

A formal response from the MNR was not received by Golder at the time of issuing this report. When a formal response to Golder's request for information is received, it will be reviewed. If, in Golder's opinion, the response details any issues of potential environmental concern with respect to the Site, a copy will be forwarded to RSDC (with a brief discussion) so that it can be appended to this report.

3.2.5 Technical Standards and Safety Authority Correspondence

The Technical Standards and Safety Authority (TSSA) was contacted via e-mail (refer to copy of correspondence in Appendix B) to determine if any commercial fuel underground storage tanks (USTs) were registered on the Site or on the surrounding properties within 250 m of the Site. It should be noted that there is currently no requirement in Ontario to register private underground fuel oil storage tanks for heating purposes. The TSSA has maintained records since 1989.

Mrs. Sarah Quibell of the TSSA replied on February 3, 2014 and indicated that the TSSA did not have any records for the addresses searched in the area of the Site.

3.2.6 EcoLog ERIS Report

As part of this 2014 Phase I ESA, Golder contracted the services of EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) to conduct a search of their federal, provincial and private sector databases for information on the Site and surrounding area within 250 m of the Site. The complete EcoLog ERIS report, including a brief description of each of the databases searched for the Phase I ESA is included in Appendix C. It should be noted that the EcoLog ERIS report was ordered to cover the Site and a neighbouring property (4209 Limebank Road), as such, the boundaries of the EcoLog ERIS report are more expansive than boundaries of this Site. The following is a summary of the findings as identified within the EcoLog ERIS report for the Site and for the surrounding properties within the Phase I Study Area:

On-Site

The EcoLog ERIS report did not have any listed records on Site.

Surrounding Properties within 250 m of the Site

Boreholes

The EcoLog ERIS report listed seven (7) boreholes within 250 m of the Site. The boreholes were drilled for geotechnical/geological investigation purposes along Earl Armstrong Road. Subsurface conditions were typically found to be a thin layer crushed stone, underlain by brown sand, grey-brown clay silt, dark brown topsoil clay silt, and silty clay.

Certificates of Approval

The EcoLog ERIS report listed four (4) certificates of approval (C of A) within 250 m of the Site. The C of As were for municipal water and sewage.



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Environmental Compliance Approval

The EcoLog ERIS report had one (1) environmental compliance approval for municipal and private sewage at 4624 Spratt Road (approximately 20m west of the Site).

Waste Generators

The EcoLog ERIS report listed five (5) waste generator entries at 910 Earl Armstrong Road. The waste being generated was oil skimmings and sludges.

TSSA Pipeline Incidents

One incident was listed at 3795 Canyon Walk, approximately 50m north of the Site, which was damage to natural gas pipeline as a result of underground utility locates being out of date.

Water Well Information System

The EcoLog ERIS report listed eight (8) water well records within 250 m of the Site. It was indicated that the wells were used for domestic water supply, cooling and air conditioning, or unknown purposes.

In summary, the EcoLog ERIS report indicated that a number of boreholes, certificates of approval, waste generators, water wells, a environmental compliance approval, and a TSSA pipeline incident located within 250m of the Site. None of these facilities or activities are considered potentially contaminating activities (PCAs).

3.3 Physical Settings Sources

3.3.1 Aerial Photographs

Selected aerial photographs for the Site were obtained from the National Air Photo Library (NAPL) in Ottawa, Ontario for years 1962, 1973, 1985, and 1994. In addition, the aerial photographs for 2002 and 2011 from the City of Ottawa geo-map (<http://maps.ottawa.ca/geoOttawa/>) were reviewed on-line. Golder selected aerial photographs from the NAPL based on availability and date intervals, in order to help develop an understanding of the history of the development of the Site and surrounding properties (within 250 m). Copies of all the aerial photographs obtained from the NAPL are presented in Appendix D.

Information obtained from the review of relevant aerial photographs is summarized in the table below.

Table 2: Aerial Photographs

Date Scale	Site	Surrounding Property Direction			
		North	East	South	West
1962 1:12,000	The Site appears to be a farm land with one farm house located in the north west corner of the Site.	Earl Armstrong Road followed by agricultural and vacant land.	Agricultural and vacant land.	Agricultural and vacant land, with one farm house to the South of the western section of the Site.	Agricultural and vacant land.
1973 1:15,000	As per 1962.	As per 1962.	As per 1962.	As per 1962 with radio broadcast towers at 4623 Spratt Road.	Limited view in aerial photograph.



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Date Scale	Site	Surrounding Property Direction			
		North	East	South	West
1985 1:15,000	The farmhouse that was previously evident on Site has been demolished.	As per 1962.	As per 1962.	As per 1973.	As per 1962 with an additional barn is present west of Spratt Road. There is a race track next to the barn.
1994 1:15,000	As per 1985.	As per 1962.	As per 1962.	As per 1973.	As per 1985.
2002 City of Ottawa eMap 1:5,310	As per 1985.	As per 1962 with significant residential develop north of Earl Armstrong Road.	As per 1962.	As per 1973.	As per 1985.
2011 City of Ottawa eMap 1:5,310	As per 1985.	As per 2002 with further residential development to the north of Earl Armstrong Road.	As per 1962.	As per 1973 with the exception that the broadcast towers have been removed.	As per 1985 with an addition building (fire station/police and ambulance depot) southeast of the intersection of Earl Armstrong Road and Spratt Road. There is also a trailer parking / staging area in the southwest corner of this intersection.

The review of aerial photographs of the Site and surrounding area indicates that the Site has not been developed with the exception of one old farm house that was built prior to 1962 and was demolished between 1973 and 1985. Most of the surrounding areas were farm land with associated farm houses or barns. Since prior to 2002, the area to the north of Earl Armstrong Road has been undergoing significant residential development.

The aerial photograph review of the Site and surrounding area (within approximately 250 m) did not identify any issues of potential environmental concern.

3.3.2 Topography, Hydrology, Geology

The following records were reviewed to identify topographic, geologic and hydrogeological conditions at the Site. A topographic map (Ontario Base Map) showing the Site and the Phase I Study Area and the location of any water bodies is provided in Figure 3. Refer to Section 5.0 for additional information on Site features, as observed at the time of the Site visit.



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Topic	Conditions	Comment / Source
Topography of Site and Surrounding Area	The topography of the Site is generally flat; with a slight slope to the northwest, towards the Rideau River.	Site and surrounding area observations and Figure 3 – Topographic Map
Overburden Soils	Offshore marine deposits (clay, silt underlying erosional terraces) with a small section to the south being near shore sediments (fine to medium grained sand). Topsoil to generally 0.2 mbgs, underlain by native clay to 0.6 mbgs.	Map 1506A, <i>Surficial Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001. 2009 Golder Shallow Test Pit Investigation.
Type of Bedrock	Oxford Formation (Dolostone, Minor Shale and Sandstone)	Map 1508A. <i>Generalized Bedrock Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001. EcoLog ERIS report
Depth to Bedrock	5 to 25 m across the Site	Map 1508A. <i>Generalized Bedrock Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001
Inferred Local Groundwater Flow	Northwest, towards the Rideau River.	Figure 3 – Topographic Map
Site Grade Relative to the Adjoining Properties	The Site is generally at grade with the surrounding lands.	Site observations
Depth to Groundwater	0.61 to 15.24 mbgs Due to a number of depths of groundwater being listed in the EcoLog ERIS report as deeper than the depth of the well and the wide range of groundwater elevations over a relatively small area, it is considered that these depths to groundwater are likely inaccurate.	The EcoLog ERIS database report



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3.3.3 Fill Materials

Topic	Conditions	Comment / Source
Fill Materials	No piles of imported fill material were observed during the site visit and reportedly no fill has been ever placed on the Site. Stockpiles were observed during the Site visit, but were reportedly stripped topsoil from the Site and as such, it is not considered to be an issue of potential environmental concern.	Site observations and Site Representative

3.3.4 Water Bodies and Area(s) of Natural Significance

Topic	Conditions	Comment / Source
Nearest Open Water Body	Unnamed creek runs north-south through the site. The nearest permanent watercourses are the Rideau River approximately 1km west of the Site and Mosquito Creek, approximately 1km northeast of the Site. There is also a storm water pond approximately 750 to the northeast of the Site.	Site observations, Figure 3 - Topographic map
Areas of Natural Significance (ANSI)	Two areas of natural significance are located within the 250m study area surrounding the Site: Armstrong Road Woods North and South.	Figure 4 - ANSI Map

3.3.5 Water Wells

Topic	Conditions	Comment / Source
Water Wells on Site (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling date, use)	Based on the Site visit and EcoLog ERIS report, no water wells were located on the Site. A drinking water well associated with the historical farm house might have been present on the Site. The EcoLog ERIS report identifies several wells in the area of the historical farm house, however, no water wells were observed on the Site during the Site visit and none of the construction dates of the wells described in the EcoLog ERIS report coincide with the farmhouse construction or demolition.	The EcoLog ERIS database report, Site observations
Water Wells on the Neighbouring Properties (location, stratigraphy of the overburden, from ground surface to bedrock, depth to bedrock, depth to water table, drilling rate, use)	Based on the EcoLog ERIS report, 8 water wells are located within 250 metres of the Site. The soil profiles varied and can be referenced in the EcoLog ERIS report in Appendix C.	The EcoLog ERIS database report



3.4 Site Operating Records

The Site has never been developed and no operations have been carried out at the Phase I Property other than agricultural activities and one farm house. As such, no Site operating records would be available and to be provided to Golder for review.



4.0 INTERVIEWS

As part of the 2014 Phase I ESA Updated completed at the Site, Ms. Mary Jarvis, the Director of Planning at RSDC (the “Site Representative”) was interviewed by Golder due to her knowledge regarding the Site. Based on the information provided by the Site Representative from the 2014 Golder Phase I ESA Update, the following additional information pertinent to the Phase I ESA was obtained:

- A residential development is proposed to be built on the Site;
- The Site owner as of 2000 is Riverside South Development Corporation; and,
- No activities have occurred on the Site since the previous Phase I ESA was completed, with the exception of stripping and stockpiling of topsoil associated with the Site development.

The Site Representative did not provide any new additional historical information for the Site than already provided and discussed in section 3.0 of the report.

The information provided by the Site Representative does not indicate any additional issues of potential environmental concern.



5.0 SITE RECONNAISSANCE

5.1 General Requirements

Mr. Tony Lyon, an environmental consultant with Golder, conducted a Site visit on January 31, 2014. The duration of the Site visit was approximately 1.5 hours. The Site visit included a tour of the Site and a cursory inspection of neighbouring properties from the Site and publicly accessible areas. Sections 5.2 to 5.4 present the observations made during the Site visit. The Site visit was documented with photographs and additional notes.

At the time of the Site visit, the weather conditions were overcast with sunny breaks and there was snow on the ground and the temperature was approximately -10°C. No evidence of stains, sheens or stressed vegetation was observed by Golder at the Site; however, visibility of the ground surface was limited due to the snow cover. Photographs of some of the features noted during the Site visit are attached in Appendix E.

During the Site visit of the 2009 Golder Phase I ESA the majority of the Site was exposed, with small pockets of snow and surface water from spring thaw making sections of the Site inaccessible. No obvious signs (visual or olfactory) of potential environmental concern were noted. It is considered that these conditions have not changed since the previous 2009 Site visit due to the lack of activities occurring at the Site.

5.2 Site Specific Observations

At the time of the Site visit, the Site was a vacant lot, no operations or any other activities were being carried out at the Site at the time of the Site visit.

The specific observations made during the Site reconnaissance are presented herein.

5.2.1 Site Details

Topic	Observations	Comment / Source
Total Area of the Site	27.84 hectares (68.79 acres)	City of Ottawa geo-map, Site owner
Number and Age of Buildings on the Site	None	Site observations
Building Area	NA	Site observations
Number of Floors (include all levels, whether above or below ground)	NA	Site observations
Number, Age, and Depth of Levels Below Ground Level	None	Site observations
Approximate Percentage of Site Consisting of Landscaped/Grassed/Bare Ground Areas	100%. The Site is native soil covered with minor vegetation across the Site.	Site observations



PHASE I ENVIRONMENTAL SITE ASSESSMENT
980 EARL ARMSTRONG ROAD, OTTAWA, ON

Topic	Observations	Comment / Source
Approximate Percentage of Site Consisting of Paved or Other Sealed Surface Materials	0%	Site observations
Number and Details of all Aboveground Storage Tanks (ASTs)	No ASTs noted during Site visit.	Site observations
Number and Details of all Underground Storage Tanks (USTs)	No evidence (fill/vent pipes extending through walls or slabs/ground surface, no staining or any obvious odours) was observed during the Site visit to indicate the current presence of fuel or chemical USTs.	Site observations, TSSA
Asbestos-Containing Materials (ACMs)	The Site has no buildings. ACMs are generally associated with building functions/material and, as such, ACM is not considered to be an issue of potential environmental concern.	Site observations
Polychlorinated Biphenyls (PCB) Containing Materials and Equipment	The Site has no buildings. Therefore, the presence of building-related PCBs (switches, capacitors, fluorescent light ballasts) is not considered to be an issue of potential environmental concern.	Site observations
Lead-Based Paints (LBPs)	The Site has no buildings. Lead is generally associated with building functions/material and, as such, lead is not considered to be an issue of potential environmental concern.	Site observations
Potable and Non-Potable Water Sources	The Site currently is not connected to the municipal water supply. There are no non-potable water sources at the Site.	Site observations
Utility Lines Present (i.e. Electrical, Natural Gas, other)	None noted during Site visit.	Site observations
Entry and Exit Points for Site Buildings	Not applicable	Site observations
Existing and Former Heating System(s) (include fuel type / source)	Not applicable	Site observations
Existing and Former Cooling System(s) (include fuel type / source)	Not applicable	Site observations



PHASE I ENVIRONMENTAL SITE ASSESSMENT
980 EARL ARMSTRONG ROAD, OTTAWA, ON

Topic	Observations	Comment / Source
Drains, Pits, and Sumps (include current use, if any, and former use)	None identified	Site observations
Unidentified Substances	None identified	Site observations
Stains or Corrosion Located near a Potential Discharge Location	None identified	Site observations
Location of any Current and Former Wells	No wells were observed on the Site during the Site visit. However, a drinking water well associated with the former farm house might be present, or have been present on the Site. The EcoLog ERIS report identifies several wells in the area of the historical farm house, however, no water wells were observed on the Site during the Site visit.	Site observations, EcoLog ERIS report
Sanitary/Process Wastewater Receptor	No sanitary or process wastewater is generated at the Site.	Site observations
Sanitary Sewer Connection	The Site is not currently connected to the municipal sanitary sewer.	Site observations
Septic Systems	None identified, however, based on the fact that a farm house was historically present on the Site, there is the potential that a former septic system is still present on the Site.	Site observations
Storm Water Flow	The surface water run-off is towards ditches running along Earl Armstrong Road and Spratt Road.	Site observations
Storm Sewer Connection	There is no storm sewer on the Site.	Site observations
Ground Cover (i.e. grass, gravel, soil, or pavement, etc.)	The Site is largely covered by minor vegetation.	Site observations
Current or Former Railway Lines or Spurs	No railway lines or spurs were observed or reported on the Site.	Site observations and aerial photographs
Presence of Stained Soil, Pavement, or Stressed Vegetation	None identified, however, visibility of the ground was limited due to the snow cover.	Site observations



PHASE I ENVIRONMENTAL SITE ASSESSMENT 980 EARL ARMSTRONG ROAD, OTTAWA, ON

Topic	Observations	Comment / Source
Presence of Fill and/or Debris Materials	No piles of fill material or debris were observed during the Site visit. The Site has two piles of stockpiled topsoil which, according to the Site Representative, originated from the Site.	Site observations, Interview with Site Representative
Operations at the Property	The Site is a vacant lot with no operations.	Site observations
Hazardous Materials	No hazardous wastes were observed or reported to be produced or originated at the Site.	Site observations, Site Representative and EcoLog ERIS Report
Products Manufactured at the Site	No manufacturing activities have been carried out at the Site.	Site observations and EcoLog ERIS Report
By-Products and Wastes at the Site	No by-products or wastes were observed or reported to be generated at the Site.	Site observations
Raw Material Handling and Storage Locations	No raw materials were observed to be stored or handled on-Site.	Site observations
Details of Drums, Totes, and Bins	No drums, totes, bins or other storage containers were observed or reported to be stored on the Site.	Site observations
Oil/Water Separators	None identified or reported.	Site observations
Vehicle and Equipment Maintenance Areas	None identified or reported.	Site observations and aerial photographs
Spills	None identified or reported.	Site observations and EcoLog ERIS report
Liquid Discharge Points	None identified or reported.	Site observations
Hydraulic Lift Equipment	None identified or reported.	Site observations
Potentially Contaminating Activity	No potentially contaminating activities were observed at the Site during the Site visit.	Site observations.

The location of the Site features is presented on Figure 2.

5.2.2 Enhanced Investigation Property

The Site has never been developed with the exception of one historical farmhouse and as such, the Site is not considered to be an enhanced investigation property as stipulated in O.Reg. 153/04 (as amended).



5.3 Surrounding Land Use within 250 m of the Site

During the Site visit, a visual reconnaissance of the outdoor operations of the surrounding land use within 250 m of the Site was carried out. The visual reconnaissance was conducted from the subject Site and publicly accessible areas and identified land uses which may potentially impact the Site.

Based on visual observations during the Site visit, adjacent property use is agricultural and residential purposes as presented on Figure 2.

North (inferred down gradient)

- Fire hall, Earl Armstrong Road, followed by residential properties and a small section of forest.

East (Inferred up to cross gradient)

- Vacant land, the majority of which appears to be farmland.

South (inferred up gradient)

- Vacant land, the majority of which appears to be forest.

West (inferred down gradient)

- Spratt Road, followed by various stages of residential development and a small sales center with parking area for the Urbandale Sales office, and an old barn was located further south along Spratt Road.

The current adjacent land uses indicated that the surrounding lands are occupied primarily by vacant and residential properties.

The review of the surrounding land uses, within 250m of the Site, did not identify any issues of potential environmental concern.

5.4 Written Description of Investigation

At the time of the Phase I ESA Site visit (January 31, 2014), the Site consisted of vacant land. The Site is approximately 27.84 hectares (68.79 acres) with minor vegetation across the Site. The civic address of the site is 980 Earl Armstrong Road, Ottawa, Ontario.

The surrounding land use is largely residential and agricultural.

At the time of the Site visit, the Site was snow covered which restricted the observation of the ground surface for potential presence of stained soil or discoloration. No evidence of stained soil, discoloration or stressed vegetation was observed in exposed areas of the Site and no areas or activities of potential environmental concern were identified at the Site at the time of the Site visit. The Armstrong Road North Woods and Armstrong Road South Woods are areas of natural significance that are present in the Phase I Study Area, to the north and the south of the Site respectively.



6.0 REVIEW AND EVALUATION OF INFORMATION

6.1 Current and Past Uses of the Site

The following table summarizes the property uses of the Site over time:

Year	Description of Property Use	Sources
Prior to 1962 to 1973/1985	The Site had one farmhouse and the remainder of the Site was used for agricultural land. This farmhouse was demolished between 1973 and 1985. The Site has only been used for residential and agricultural purposes.	Aerial photographs, EcoLog ERIS report, street directories, street directories
1973/1985 to 2014	The Site was used for agricultural purposes. No other activities have been carried out at the Site.	

6.2 Potentially Contaminating Activities (PCAs)

Potentially contaminating activities, current or historical, carried out at the Site or in the Phase I ESA Study Area, may trigger a Phase II ESA. Based on the information obtained as part of this Phase I ESA, the following potentially contaminating activities were identified:

Location of PCA	Potentially Contaminating Activities	Description of Potentially Contaminating Activities	Status
On Site	#28. Gasoline and associated products storage in fixed tanks	Former presence of a farm house on the Site that may have contained ASTs for farm equipment fueling or heating purposes	This PCA was addressed in the 2009 Golder Shallow Test Pit Investigation, in which shallow test pits were excavated to investigate the potential presence and/or impacts of an AST on the Site. No signs of impacts were noted during this investigation.

Based on the information obtained in this Phase I ESA and on the above mentioned considerations, no potentially contaminating activities resulting in APECs on the Site were identified.

6.3 Areas of Potential Environmental Concern (APECs)

Based on the information obtained as part of this Phase I ESA, no areas of potential environmental concern were identified for the Site.

6.4 Conceptual Site Model

A Conceptual Site Model of the Phase I Study Area (as required by O.Reg. 153/04) is presented in a series of Figures 1 to 7 (Figure 1: Key Plan, Figure 2: Phase One Property Boundary and Phase One Study Area, Figure 3: Topographic Map, Figure 4: Area of Natural and Scientific Interest (ANSI), Figure 5: Bedrock Geology Map, Figure 6: Surficial Geology Map, Figure 7: Soil Survey Complex Map and Figure 8: Physiography Map). The combined set of figures shows:

- Any existing buildings and structures (there were none);
- Water bodies and areas of natural significance located in the Phase I Study Area;



PHASE I ENVIRONMENTAL SITE ASSESSMENT 980 EARL ARMSTRONG ROAD, OTTAWA, ON

- Any drinking water wells on the Phase I Property (none identified);
- Roads (including names) within the Phase I Study Area;
- Uses of properties adjacent to the Phase I Property;
- Areas where any PCA has occurred in the Phase I Study Area, including any storage tanks (none identified); and,
- Areas of potential environmental concern (none identified).

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

- The Site is a vacant lot, with an area of approximately 27.84 hectares (68.79 acres) and minor vegetation across the Site;
- Surface water runoff is towards the ditches along Earl Armstrong Road and Spratt Road;
- According to the MOE water well database in the EcoLog ERIS report, no water wells are present on the Site, but given the historic presence of a farm house on the Site there is the potential for water wells to be present on the Site;
- At the time of the Phase I ESA, the neighbouring properties within the Phase I Study Area were vacant land (forest or farm land) or residential lands;
- The nearest known subsurface conditions are in the roadway of Earl Armstrong Road and consist of crushed stone, underlain by brown sand, grey-brown clay silt, dark brown topsoil clay silt, and silty clay. The depth to the bedrock is expected to be between 5 and 25 mbgs, and the depth to groundwater is 0.61 to 15.24 mbgs. Subsurface conditions outlined in the 2009 Golder Shallow Test Pit Investigation, were generally topsoil to 0.2 mbgs underlain by native clay to at least the depth of the excavation (0.6 mbgs);
- No PCAs were identified on the Phase I ESA Study Area that may have impacted the Site and no APECs were identified on the Site; and,
- The groundwater flow direction on the Site was interpreted to be northwest towards the Rideau River.

6.4.1 Uncertainty and Absence of Information

There were no material deviations to the Phase I ESA requirements set out in O.Reg. 153/04 (as amended) that would cause uncertainty or absence of information that would affect the validity of the findings of this assessment.

The partial snow cover on the Site at the time of the Site visit limited the visual assessment for any staining or other signs of contamination. However, given that no staining or other signs of contamination was observed during the Phase I ESA Site visit completed by Golder in 2009, that the Site appears similar to 2009, and that no activities were being carried out at Site since 2009 Site visit, it is considered that this limitation does not affect the conclusions of this Phase I ESA report.



7.0 CONCLUSIONS

Based on the information collected as part of this Phase One ESA, the following potentially contaminating activities (PCAs) were identified: 1) the historic farm house on Site with a potential AST and 2) the off-site presence of surficial debris in the Study Area. These PCAs were previously addressed by 1) the 2009 Golder Shallow Test Pit Investigation, in which shallow test pits were excavated to investigate the potential impacts of an AST located on the Site and 2) the 2009 Golder Documentation of Removal of Surface Debris, in which Golder documented the removal of the debris from the Site. Thus there are no current on-Site or off-Site PCAs that were identified that may result in areas of potential environmental concern for the Site.

The following is recommended in conjunction with developing the Site:

- Should a water well(s) be found during development of the Site, they should be decommissioned as per *Ontario Regulation (O. Reg.) 903*; and,
- Should a septic system(s) be found during development of the Site, it should be properly decommissioned.

7.1 Need for Phase II ESA

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

7.2 Record of Site Condition Based on Phase I Environmental Site Assessment Alone

Considering that the Site has been used for largely agricultural purposes with a small section of the Site being used as residential, and is proposed to be developed as a residential subdivision (residential land use), the land use is changing from more sensitive to less sensitive or staying in the same land use. As such, there is no mandatory requirement for filing of a RSC for the Site.



8.0 LIMITATIONS AND USE OF REPORT

This report (the Report) was prepared for the exclusive use of Riverside South Development Corporation. The Report summarizes Golder's review of available data in accordance with the principal components of CSA Z768-01 *Phase I Environmental Site Assessment*, as well as Ontario Regulation 153/04 *Records of Site Condition*, as amended (RSC Regulations). The Report is based on data and information collected at the time of this Assessment, and must be considered in its entirety. It is based solely on the conditions on the Site encountered at the time of the site visit on January 31, 2014, as reported herein. Except as otherwise may be requested, Golder disclaims any obligation to update this Report for events taking place, or with respect to information that becomes available to Golder after the time during which Golder conducted the work. No soil, water, liquid, gas, product or chemical sampling and analytical testing other than that described herein at or in the vicinity of the Site was conducted as part of this Work.

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

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

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

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



9.0 STATEMENT OF COMPLETION

The undersigned confirm that this Phase I Environmental Site Assessment was conducted in a manner consistent with the expected standard of care for the consulting industry in Ontario and meets the requirements for Phase I ESAs as set out in O. Reg. 153/04. The findings and conclusions presented herein are based on our review of relevant and readily available information, as noted in this report.



PHASE I ENVIRONMENTAL SITE ASSESSMENT 980 EARL ARMSTRONG ROAD, OTTAWA, ON

10.0 REFERENCES

The following is a list of persons contacted and references reviewed for the purposes of preparing this report:

Source	Date
Ontario Regulation 153/04 as amended	October 31, 2011
Canadian Standards Association Document Z768-01 (R2012) 'Phase I – Environmental Site Assessments'	November 2001
Map 1506A, <i>Surficial Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001.	2001
Map 1508A, <i>Generalized Bedrock Geology</i> , Ottawa, Ontario, Belanger J. R., Urban Geology of the National Capital Area, Geological Survey of Canada, Open file D3256, 2001	2001
<i>Golder Associates Ltd. GIS Database</i> (Reference - Digital Basemap Data supplied by DMTI Spatial Inc., Canmap, 2006).	2006
Aerial Photographs - National Air Photo Library, Ottawa and the City of Ottawa geo-map (http://maps.ottawa.ca/geoOttawa/)	1962, 1973, 1985, and 1994. The City of Ottawa geo-map: 2002 and 2011
Nineteen century map, H. Belden's 1879 map of Carleton County (Belden, H. and Co. 1879 Illustrated Historical Atlas of the County of Carleton. Reprinted 1971. Port Elgin: Ross Cumming)	1879
EcoLog ERIS report	February 4, 2014
Street Directories	1986, 1993, 1999/2000, 2004/2005, and 2009/2010
Ontario Ministry of the Environment	April 12, 2014
City of Ottawa	Pending
Ministry of Natural Resources	Pending
Technical Standards and Safety Authority	February 3, 2014



PHASE I ENVIRONMENTAL SITE ASSESSMENT 980 EARL ARMSTRONG ROAD, OTTAWA, ON

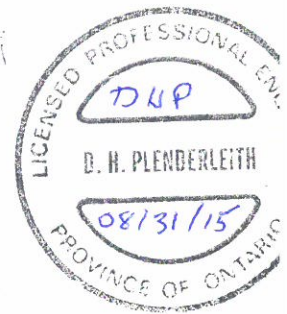
11.0 CLOSURE

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

GOLDER ASSOCIATES LTD.

Tony Lyon, B.Eng., B.A.
Environmental Consultant

Don Plenderleith, P.Eng., PMP, QP_{ESA}
Principal

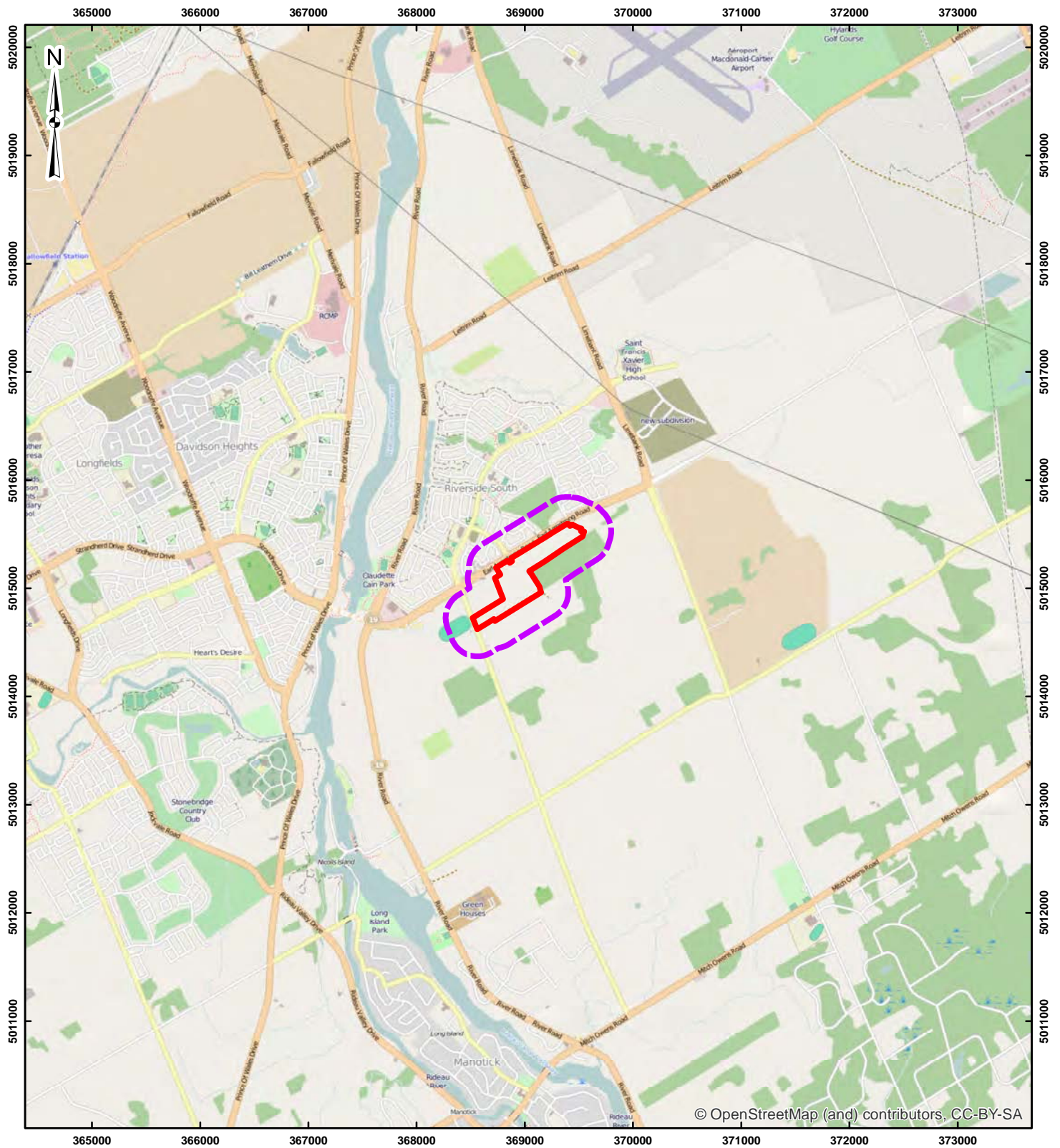


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LEGEND

-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

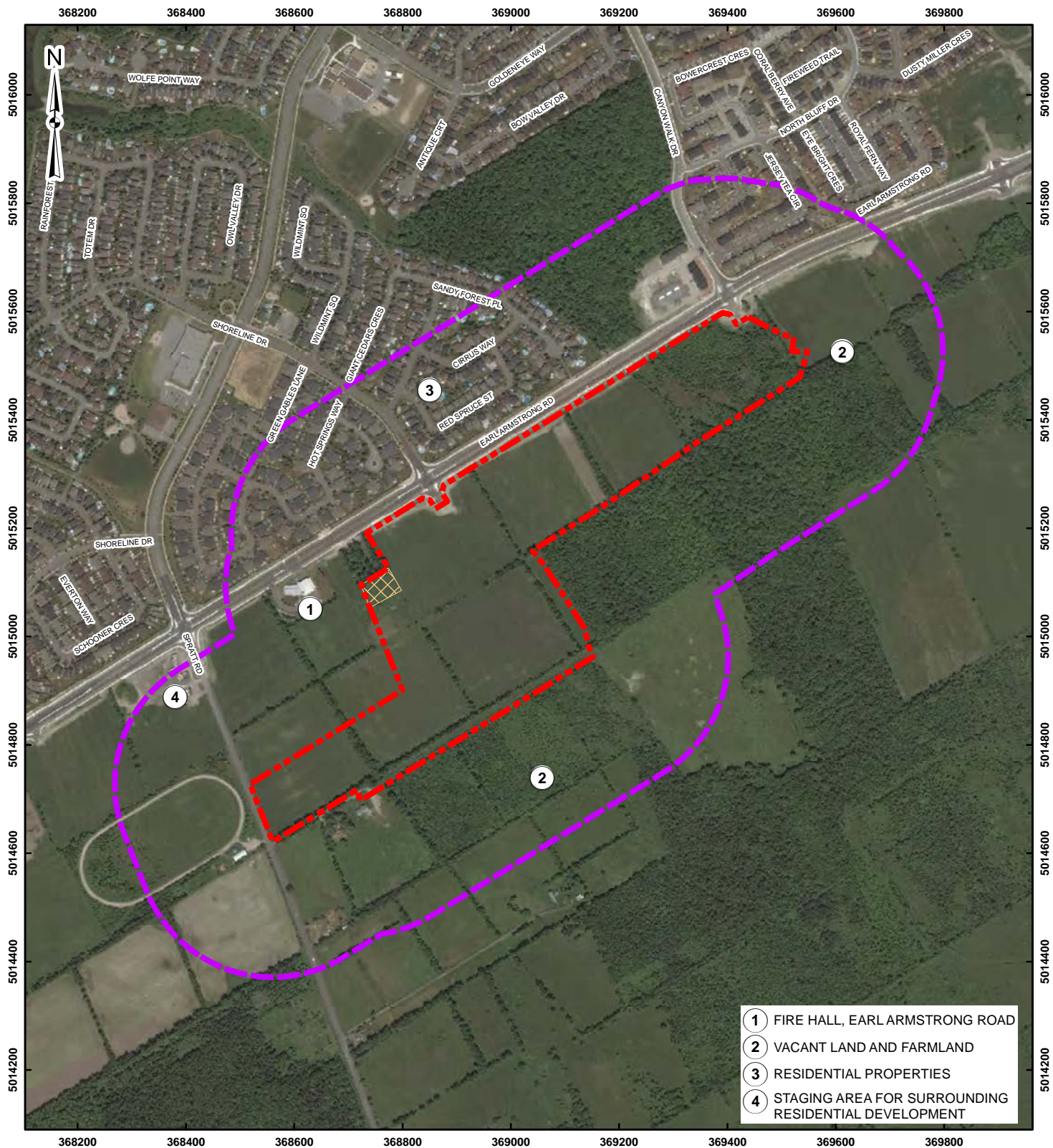
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Metres
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TITLE		KEY PLAN		
PROJECT No. 14-1122-0011		SCALE AS SHOWN	REV. 0.0	
DESIGN	TL	2014-01-28	FIGURE 1	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		



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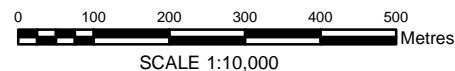
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA
-  APPROXIMATE LOCATION OF FORMER FARM HOUSE (ON SITE)

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

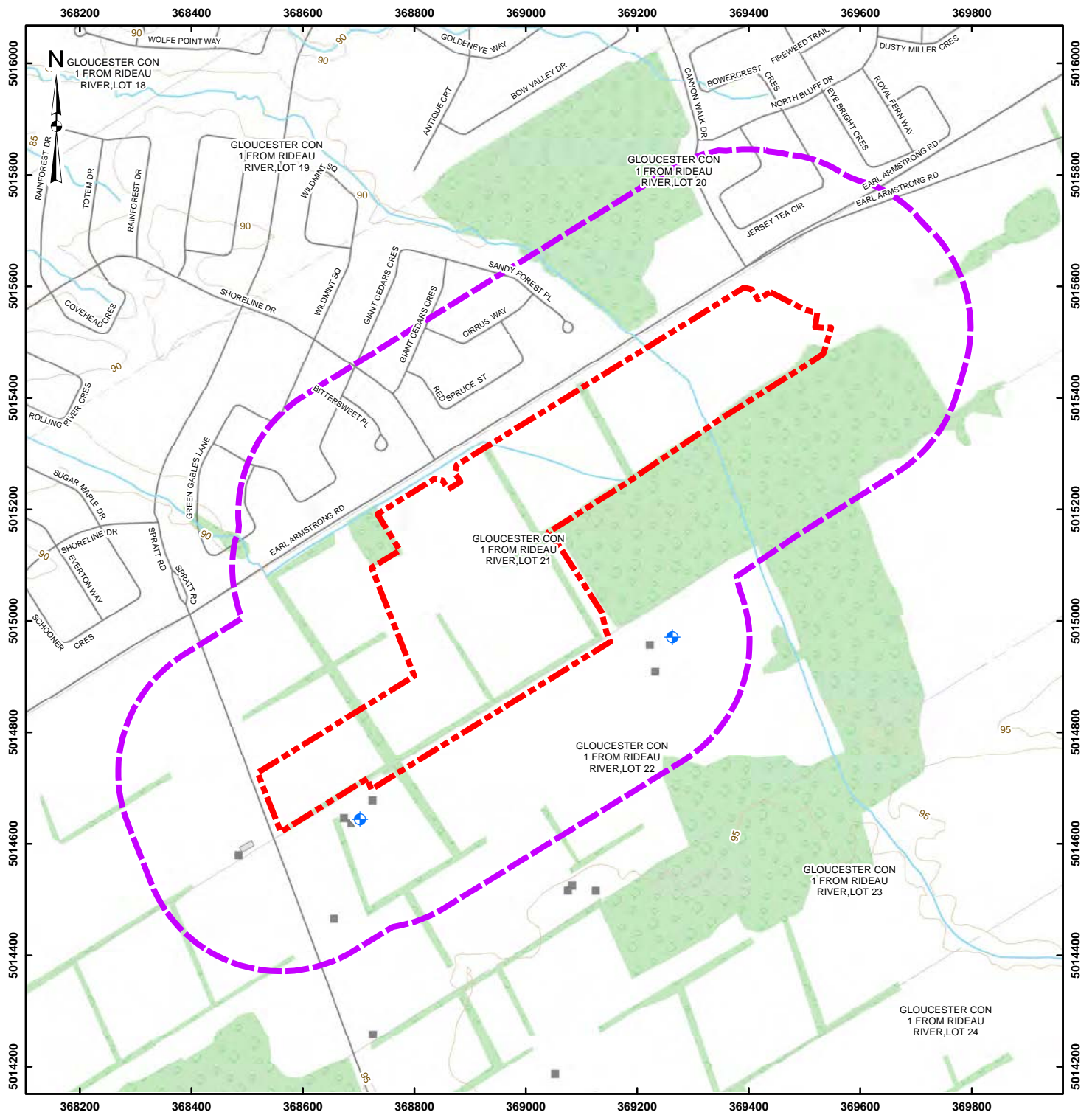
TITLE
PHASE I PROPERTY BOUNDARY
AND STUDY AREA



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GIS	JEM	2014-02-10	
CHECK	TL	2014-02-18	
REVIEW	DHP	2014-02-18	

FIGURE 2

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LEGEND

- MOE LISTED WATER WELL
- BUILDING POINT
- WATERCOURSE
- TOPOGRAPHIC CONTOUR, metres
- ROADWAY
- LOT
- BUILDING FOOTPRINT
- WATERBODY
- WOODED AREA
- SITE BOUNDARY
- PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD.
UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES,
© QUEENS PRINTER 2011
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PROJECT

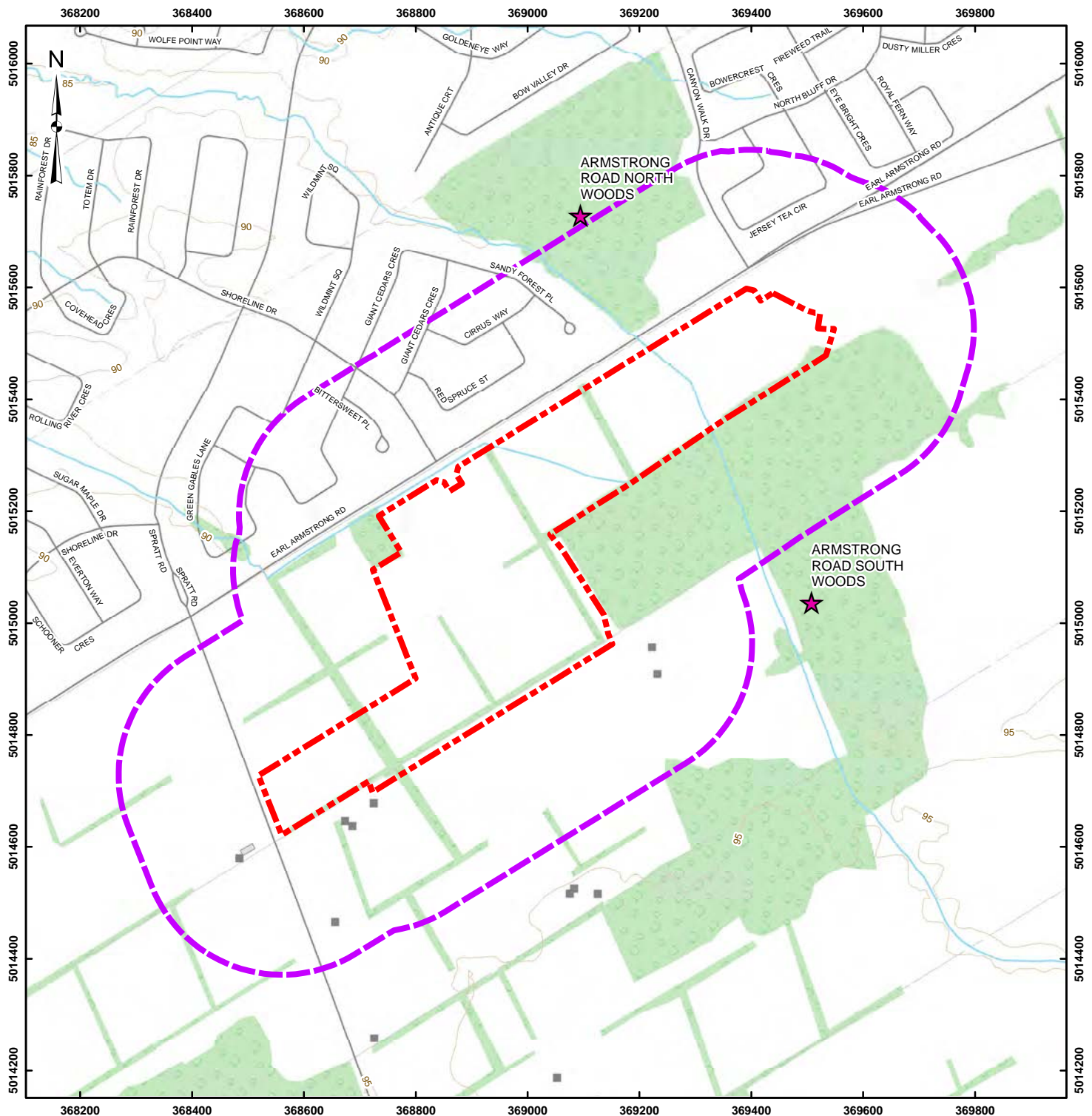
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

TITLE












TOPOGRAPHIC MAP



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE 3	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		



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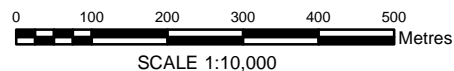
-  NHIC NATURAL AREA
-  BUILDING POINT
-  WATERCOURSE
-  TOPOGRAPHIC CONTOUR, metres
-  ROADWAY
-  LOT
-  BUILDING FOOTPRINT
-  WATERBODY
-  WOODED AREA
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

LAND INFORMATION ONTARIO (LIO) DATA PRODUCED BY GOLDER ASSOCIATES LTD.
UNDER LICENCE FROM ONTARIO MINISTRY OF NATURAL RESOURCES,
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PROJECT

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980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

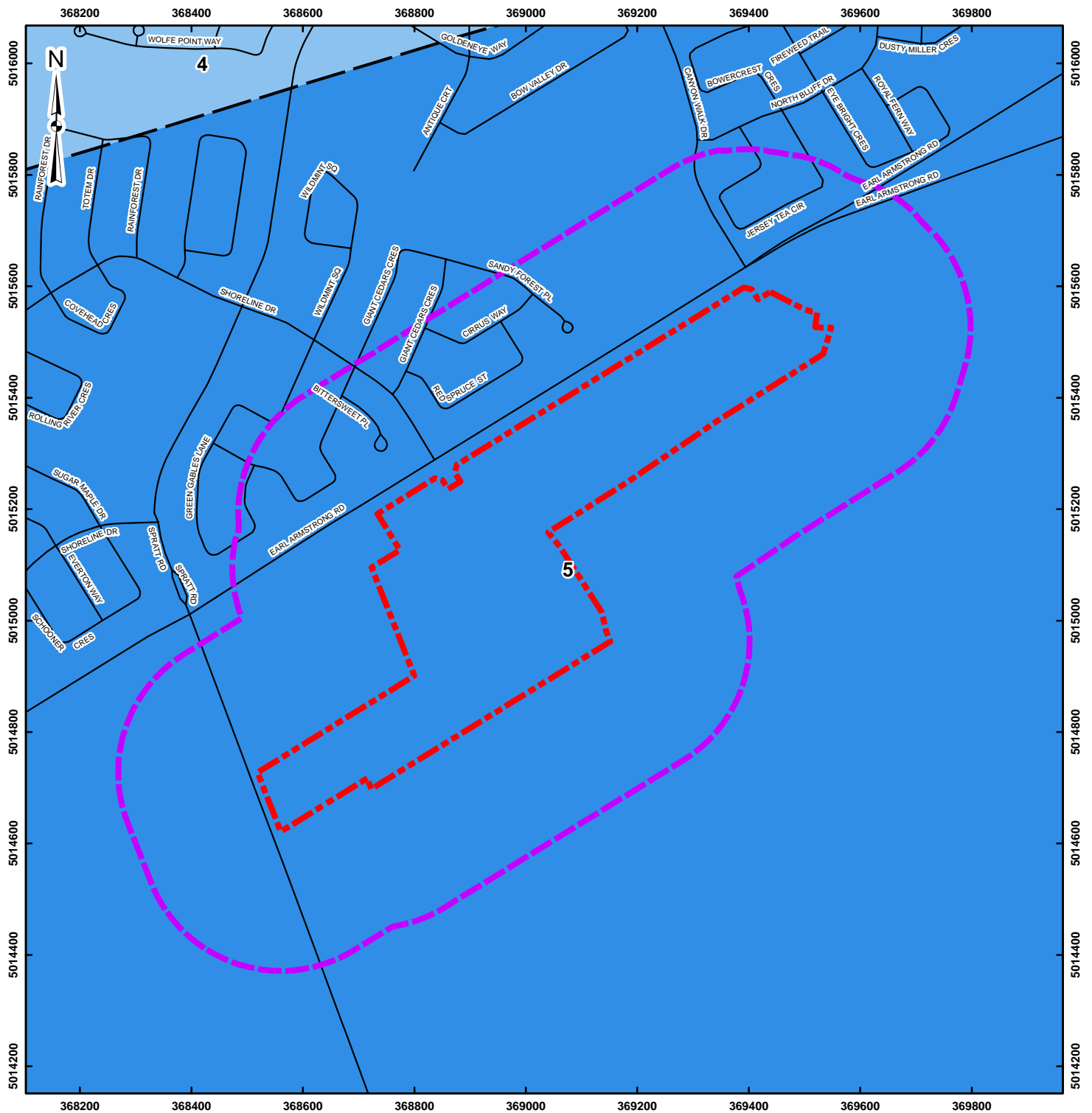
TITLE

AREA OF NATURAL AND
SCIENTIFIC INTEREST (ANSI)



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
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CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		

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LEGEND

- ROADWAY
- 5: OXFORD FORMATION - DOLOSTONE, MINOR SHALE AND SANDSTONE
- 4: MARCH FORMATION - SANDSTONE, DOLOMITIC SANDSTONE, DOLOSTONE
- SITE BOUNDARY
- PHASE I ESA STUDY AREA


NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

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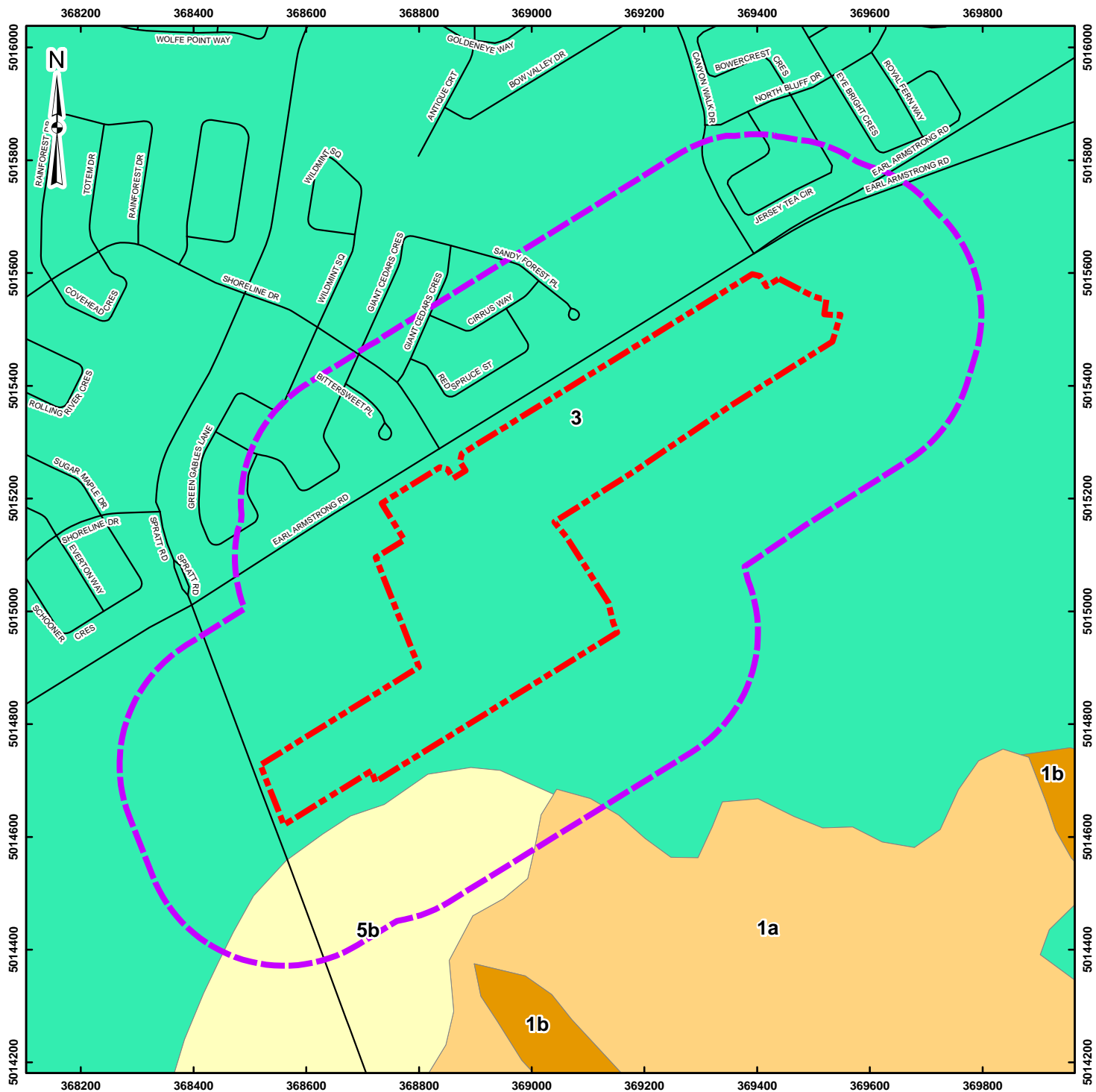
ARMSTRONG, D.K. AND DODGE, J.E.P. PALEOZOIC GEOLOGY MAP OF SOUTHERN ONTARIO; ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 219
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Metres
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PROJECT		PHASE I ESA – RSDC PHASE 8 LANDS, 980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO			
TITLE		BEDROCK GEOLOGY			
 Golder Associates	PROJECT No. 14-1122-0011		SCALE AS SHOWN		REV. 0.0
	DESIGN	TL	2014-01-28		FIGURE 5
	GIS	JEM	2014-02-10		
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	REVIEW	DHP	2014-02-18		



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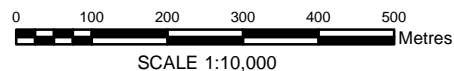
- ROADWAY
- 5b. NEARSHORE SEDIMENTS: FINE TO MEDIUM GRAINED SAND
- 3. OFFSHORE MARINE DEPOSITS: CLAY, SILTY CLAY & SILT
- 1a. TILL, PLAIN WITH LOCAL RELIEF <5 m
- 1b. TILL, DRUMLINIZED
- SITE BOUNDARY
- PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

BÉLANGER, J. R. 2008 URBAN GEOLOGY OF THE NATIONAL CAPITAL AREA, GEOLOGICAL SURVEY OF CANADA, OPEN FILE 5311, 1 DVD.
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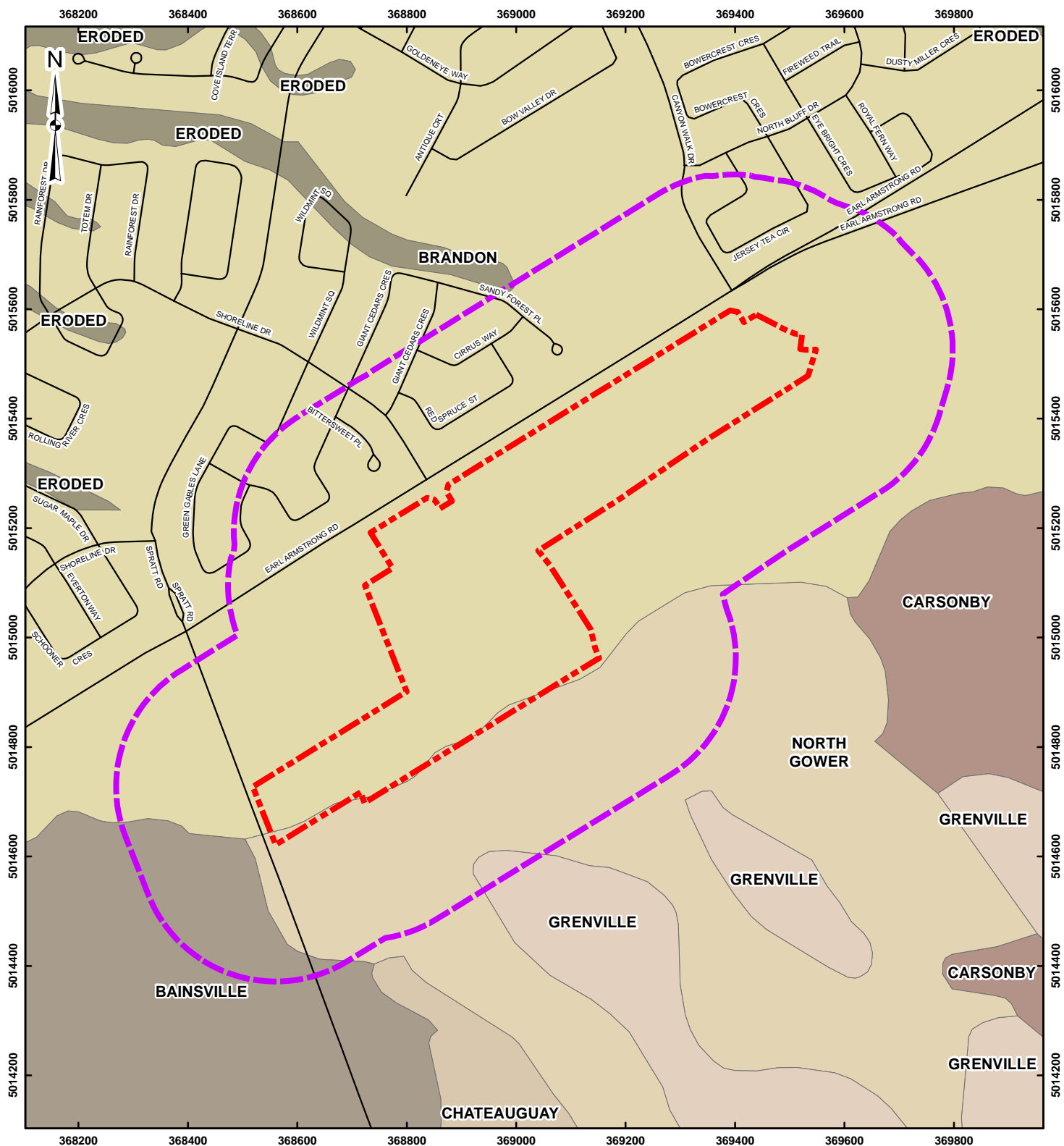
PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

TITLE
SURFICIAL GEOLOGY



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE 6	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		

N:\Active\Spatial\IMU\bandale4209\imebank_980EarlArmstrong\GIS\MXD\14-1122-0011\Phase2000_980EarlArmstrong\1411220011-2000-07.mxd



LEGEND

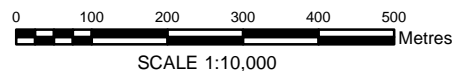
- ROADWAY
- SITE BOUNDARY
- PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



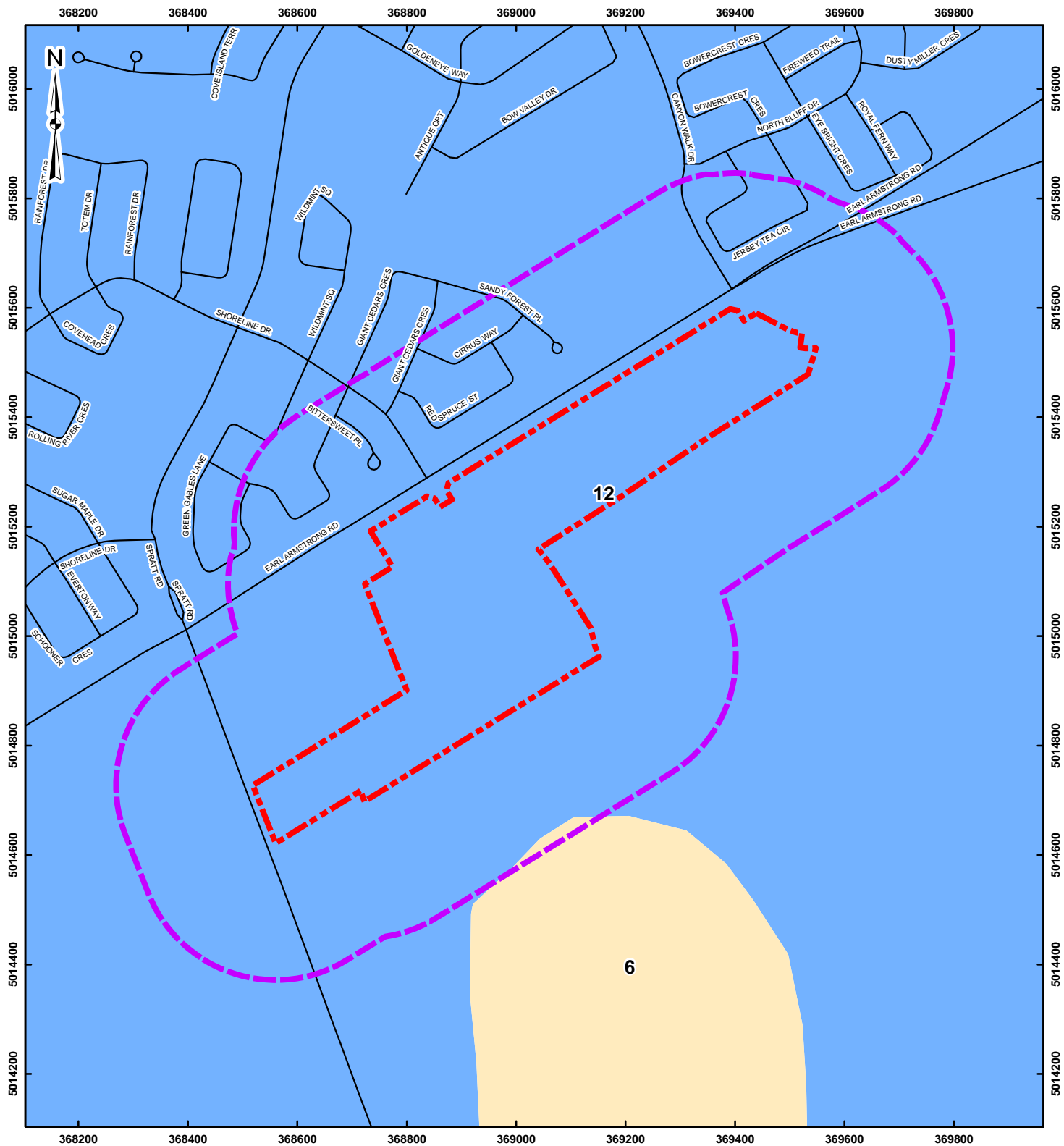
PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

TITLE
SOIL SURVEY COMPLEX
(ONTARIO SOILS)



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE 7	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		

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LEGEND

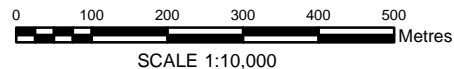
- ROADWAY
- 6: TILL PLAINS (DRUMLINIZED)
- 12: CLAY PLAINS
- SITE BOUNDARY
- PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

CHAPMAN, L.J. AND PUTNAM, D.F. 2007. PHYSIOGRAPHY OF SOUTHERN ONTARIO;
ONTARIO GEOLOGICAL SURVEY, MISCELLANEOUS RELEASE--DATA 228
DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

TITLE
PHYSIOGRAPHY MAP



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE 8	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		



APPENDIX A

Plan of Survey



APPENDIX B

Regulatory Requests and Responses



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
980 EARL ARMSTRONG ROAD, OTTAWA, ON**

City of Ottawa Request

DATE January 29, 2014**PROJECT No.** 14-1122-0011**TO** City of Ottawa
Development Approvals Division**FAX No.** 613-560-6006**CC****TOTAL PAGES** 07 (Including cover sheet)**FROM** Tony Lyon**EMAIL** alyon@golder.com**REQUEST FOR ENVIRONMENTAL INFORMATION FOR A PHASE I ENVIRONMENTAL SITE
ASSESSMENT, 980 EARL ARMSTRONG ROAD AND 4209 LIMEBANK ROAD, OTTAWA, ONTARIO**

We are in the process of preparing a Phase I Environmental Site Assessments for the two sites noted above and are requesting that the City provide information from their files with respect to the sites.

As per your requirements we have included the Request for Information – Phase I Environmental Site Assessment form, a disclaimer form, property owner authorization and key plan.

The information that we are requesting includes, but is not limited to, the following:

- Active Orders under the Environmental Protection Act (EPA), the Ontario Water Resources Act (OWRA), and the Pesticides Act (PA)
- Approvals
- Reports relating to environmental concerns
- Records of non-compliance or regulatory concerns
- Dumping infractions, spills or discharges to the environment
- Violations of sewer use or environmental by-laws
- Historic information related to landfill or dumpsites on or in proximity to the property
- Any other environmental information

Your usual prompt attention to this matter is appreciated. Should you have any questions please contact our office.

Golder Associates Ltd.

TL

Hard copy to follow by mail:

☐ Yes ☒ No

Please advise immediately if any pages are not received. This transmission is intended only for the recipient(s) names above and contain privileged and confidential information. Any unauthorized disclosure, dissemination or copying of this transmission is strictly prohibited. If you have received this transmission in error, please immediately notify our receptionist by telephone and destroy this transmission. Thank you.


N:\Active\2012\1122 - Contaminated Lands\12-1122-0090 Ph. I ESA Updates, Kunstadt Sports\Reg Requests\COPY of Fax-002 City Request.doc

DISCLAIMER
For use with HLUI Database

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

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

1. This is a free service offered by the City.
2. The information which is contained in the HLUI has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided "as is".
3. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information to be provided by the City to the Requester is provided on the assumption that no person shall rely on it without undertaking independent verification of it for any purpose whatsoever and all liability to any such person is denied.
4. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
5. Copyright is reserved to the City.
6. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
7. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
8. All information collected under this request and all records provided in response to this request are subject to the provisions of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c. M56, as amended.

Signed:  Dated: Jan. 29, 2014
Per: Tony Lyon
(Please print name)
Title: Environmental Consultant
Company: Golder Associates

CONFIDENTIAL

File No.: _____
Deadline for Response: _____

Phase 1 – Environmental Site Assessment

Request for Information

(Informal Request)*

1. REQUESTER INFORMATION

- a) Name of Requester: Tony Lyon (Golder Associates Ltd)
b) Address of Requester: 32 Steacie Drive
c) Telephone Number: 613-592-9600
d) Site Address: Lot- _____ Concession: _____
Street: _____ City/Town: Ottawa
Postal Code: _____ ↳ 4209 Limebank Road, and 980 Earl Armstrong Road.
e) Legal Plan Attached: Yes () No (✓)
f) Site Owner: Urbandale
g) Adjacent Property Owners: _____
h) Date of Ownership: _____
Previous Owner(s): _____
i) Type of Site: (✓) vacant, () residential, () commercial,
() other (specify) _____
j) Requestors relationship to Site: _____
k) Date of Previous Request: _____
l) Date of Previous ESA: 2008 / 2009
m) Information Requested: _____

2. CONFIDENTIALITY

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

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

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

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

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

.....

Property Location Information:

Civic Address Part of 980 Earl Armstrong Road

Legal Description Part of Lots 21 & 22, Concession
1 (Rideau Front)

Property Contact Information:

Owner Riverside South Development Corporation

Phone Number 613-731-6331

Fax Number 613-731-9226

Owner Representative MARY JAKUB

Owner Representative Signature Mary Jakub

Date 02/29/14

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

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

.....

Property Location Information:

Civic Address Part of 4209 Limebank Road

Legal Description Part of Lots 17, 18, 19 & 20,
Concession 2 (Rideau Front)

Property Contact Information:

Owner Riverside South Development Corporation

Phone Number (613) 731-6331

Fax Number (613) 731-9226

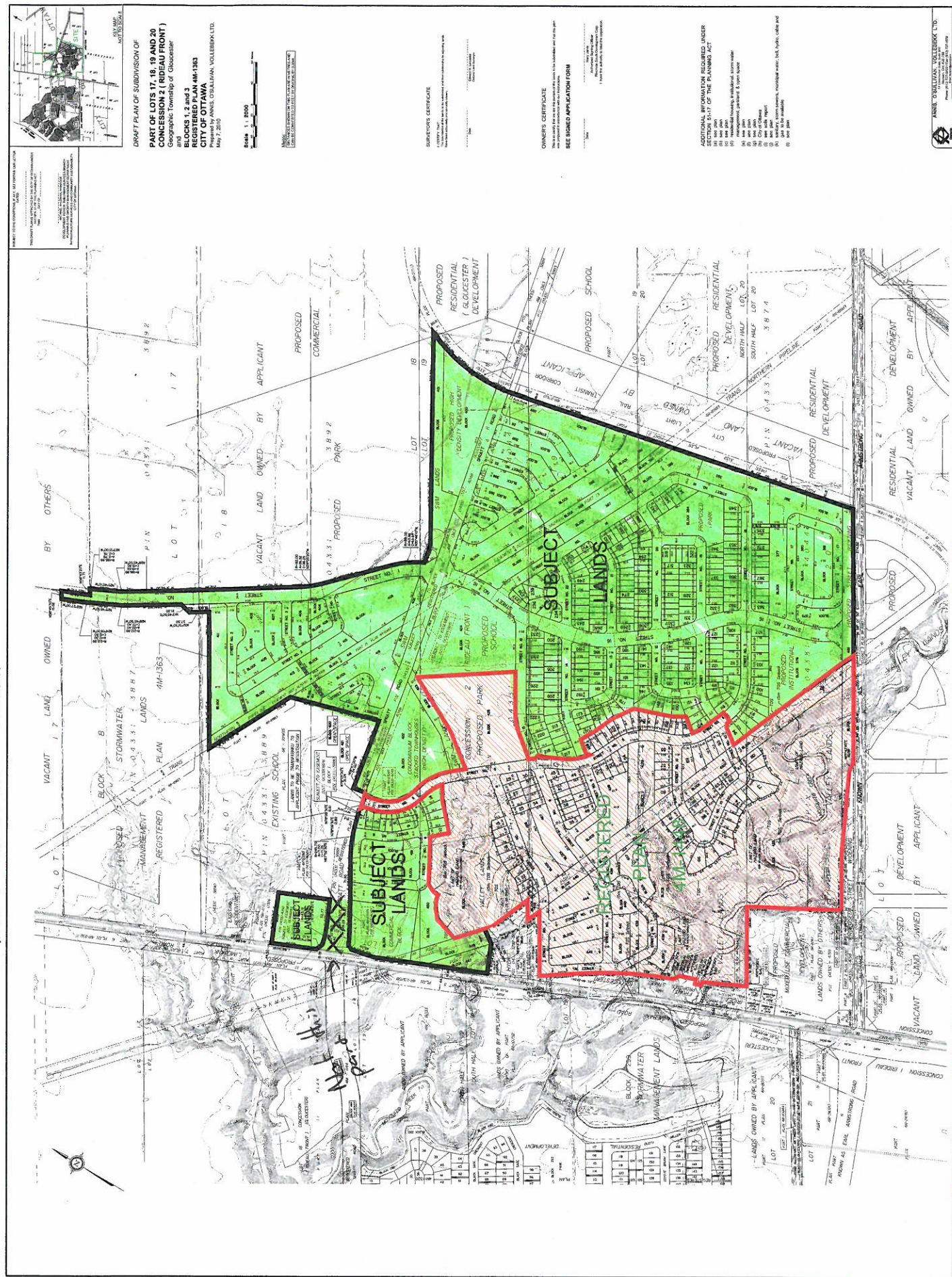
Owner Representative Harry James

Owner Representative Signature Harry James

Date 01/29/14

14-1122-0011

PHASE 1000



14-1122 - 0011
PHASE 2000

RSDC Phase 8 Lands
980 Earl Armstrong Road





**PHASE I ENVIRONMENTAL SITE ASSESSMENT
980 EARL ARMSTRONG ROAD, OTTAWA, ON**

MNR Request



Natural Areas and Features Information Request Form

Contact Information

Clear Contact

Name: Tony Lyon

Address: 32 Steacie Drive, Ottawa, ON

Phone Number: (613) 592-9600

☐

Owner

☒

Consultant

E-mail Address: tony_lyon@golder.com

***All red fields are mandatory**

This includes X & Y Coordinates.

Please see [page 2](#) for assistance.

Site Information

Project Name: 4209 Limebank Road and 980 Earl Armstrong

Clear Site

Township: _____ Lot: _____ Concession: _____

X: _____ Y: _____ Address: 4209 Limebank and 980 Earl Armstrong

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

Type of Proposal

Clear Details

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

Attachments

**

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

Request

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

-SAR data (a review of the NHIC indicates presence of one restricted species) within 1km, and advice for avoiding impacts to any SAR that may be present.

-Information on and mapping of significant natural areas (NHIC indicates none present) within

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

The request is needed to comply with Ontario Regulation 153/04 (as amended) for a Phase I Environmental Site Assessment being completed at 505 Preston St. in Ottawa, Ontario for the owner.

Date of works proposed: ____ / ____ / ____

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

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

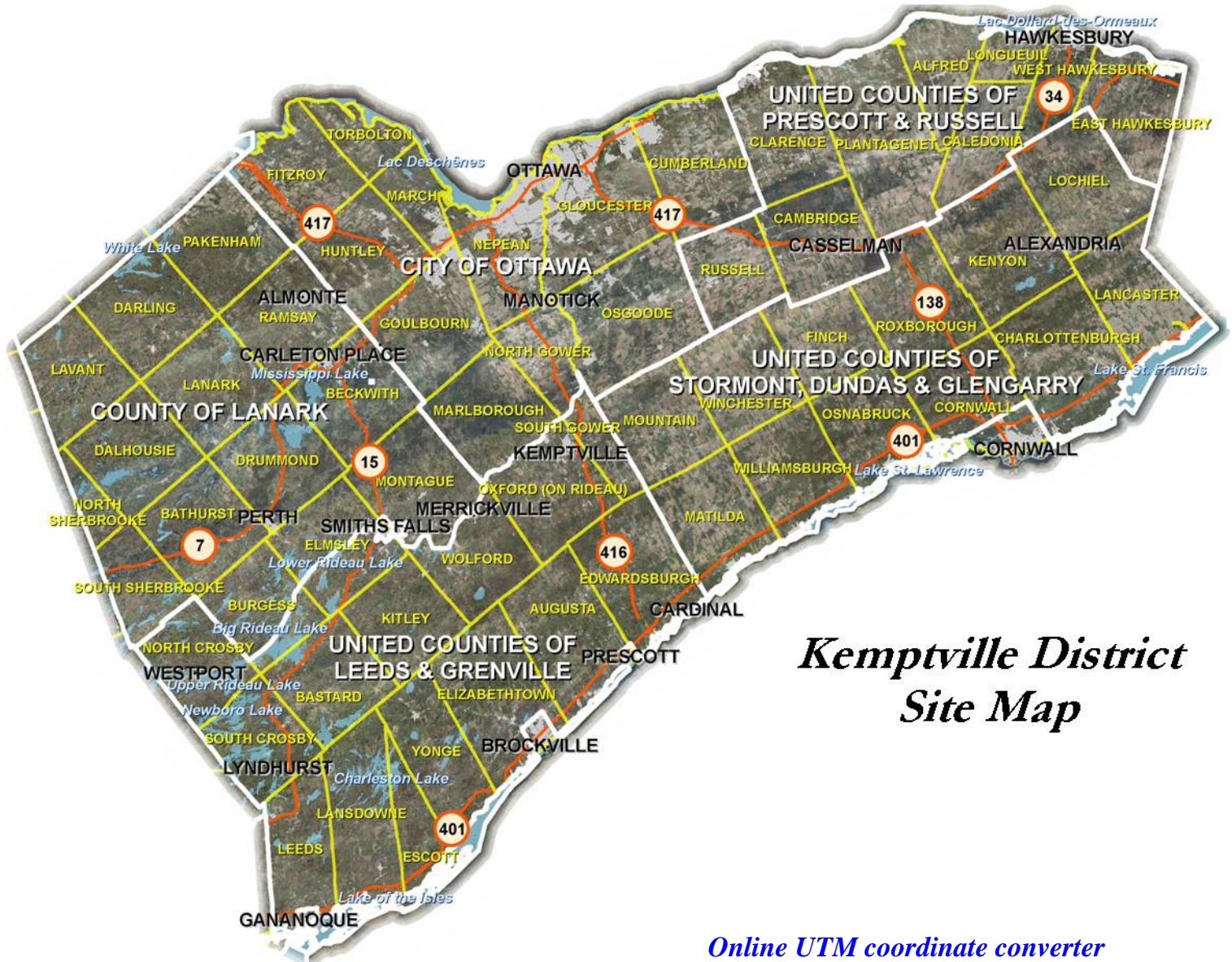


Please forward the completed form to:

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

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

MNR File Number: _____



Kemptville District Site Map

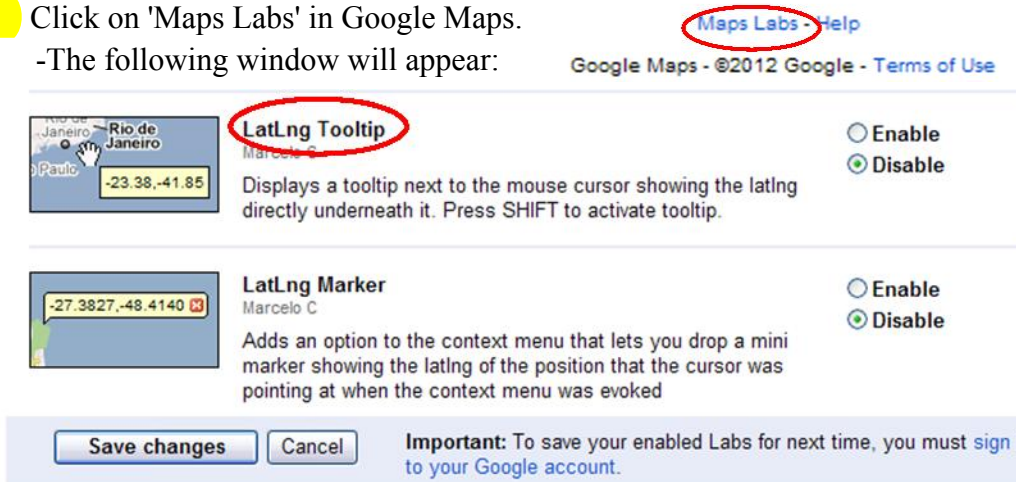
[Online UTM coordinate converter](#)

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

- Right-click on the map, at the point of interest, and select 'What's here?'.
-The Latitude & Longitude of the mouse click, in decimal degrees, will automatically appear in the Search box.

- Click on 'Maps Labs' in Google Maps.

-The following window will appear:



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



PHASE I ENVIRONMENTAL SITE ASSESSMENT 980 EARL ARMSTRONG ROAD, OTTAWA, ON

MOE Request

DATE January 29, 2014**PROJECT No.** 14-1122-0011**TO** Ministry of the Environment**FAX No.** 613-521-5437**CC****TOTAL PAGES** 3 (Including cover sheet)**FROM** Tony Lyon**EMAIL** alyon@golder.com**REQUEST FOR ENVIRONMENTAL INFORMATION FOR A PHASE I ENVIRONMENTAL SITE
ASSESSMENT, 980 EARL ARMSTRONG ROAD AND 4209 LIMEBANK ROAD, OTTAWA, ONTARIO**

We are in the process of preparing a Phase I Environmental Site Assessment for the site noted above. For your reference we have included a key plan showing the location of the study area.

It is requested that the Ministry provide an Index Review Report with respect to the following:

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

Your usual prompt attention to this matter is appreciated. Should you have any questions please contact our office.

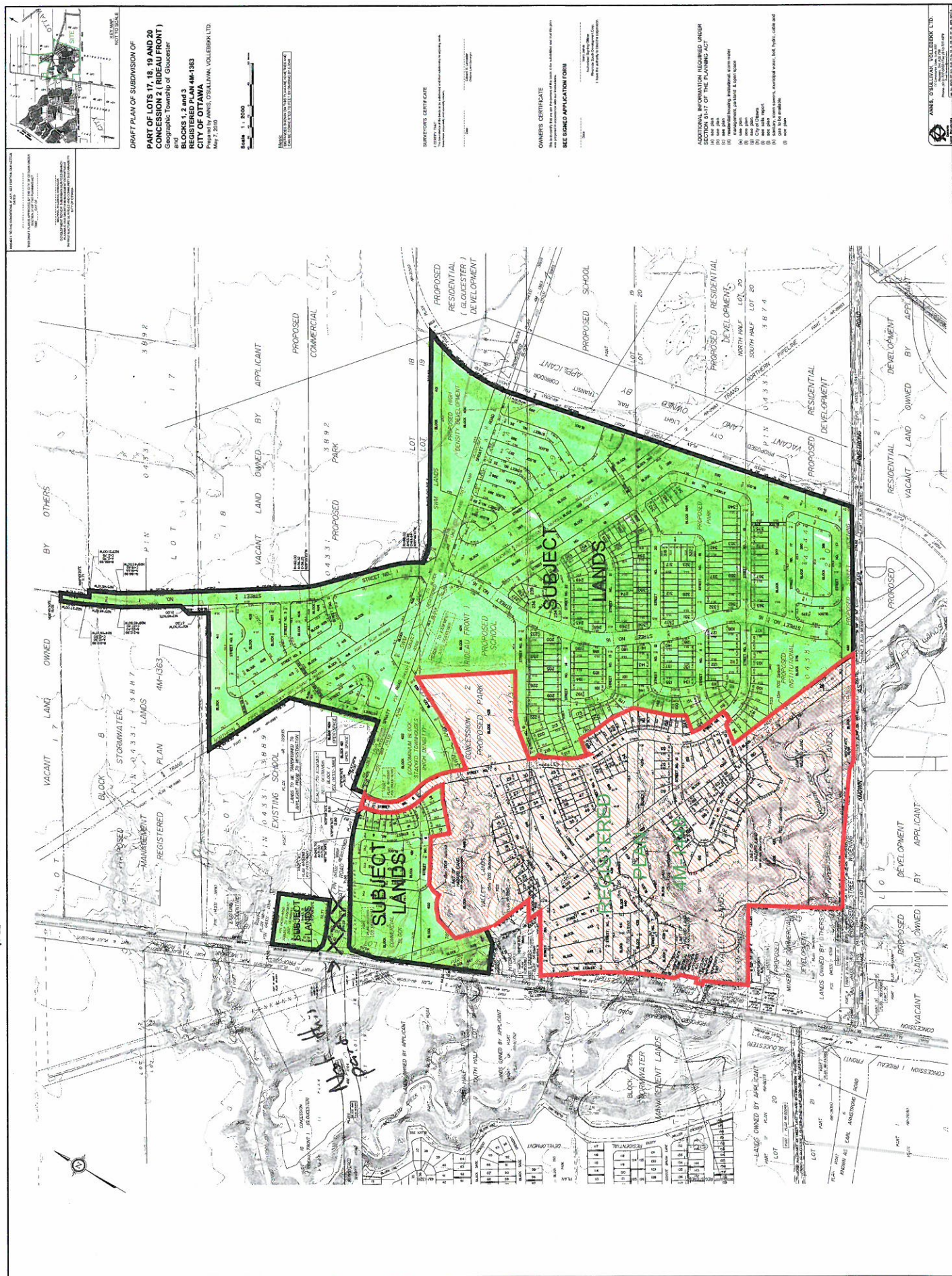
Golder Associates Ltd.

Hard copy to follow by mail: ☐ Yes ☒ No

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C:\Users\alyon\Desktop\PH 1\Fax-001 MOE Request.docx

14-1122-00 M
PHASE 1000



980 Earl Armstrong Road



Ministry of the Environment

Ottawa District Office

2430 Don Reid Drive
Ottawa ON K1H 1E1

Tel: (613) 521-3450

Fax: (613) 521-5437

Ministère de l'Environnement

Bureau du district d'Ottawa

2430, promenade Don Reid
Ottawa (Ontario) K1H 1E1

Tél. : (613) 521-3450

Télec. : (613) 521-5437

OTT File No: **10616****INDEX REVIEW REPORT
COMMERCIAL/INDUSTRIAL/AGRICULTURAL**

Attention: Tony Lyon Golder Associates	Your File: 14-1122-0011 Date Received: January 29, 2014
---	---

PROPERTY OWNER AND LOCATION

Present Owner:		
Past Owners:		
Location:	Municipality:	Ottawa
	Address:	980 Earl Armstrong Road and 4209 Limebank Road, Ottawa
	Lot	Concession

INDEX OF NAMES FOR ORDERS

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"/>	Check here if no Active Orders are outstanding
Date of Search: April 10, 2014	

INDEX OF NAMES FOR APPROVALS

We have requested 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)	8630-7GVKEK	Riverside South Catholic High School 4209 Limebank Road	Aug. 8/08 -
Other			

☐ Check here if no Approvals have been issued.

Date of Search: April 10, 2014

Please note that all Environmental Compliance Approvals (ECAs) can be viewed on the ministry's web page at <http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en>

Please Note:

- 1) The information provided above is based solely on the 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 1993.
- 3) The Index Record of Names to whom approvals have been issued, maintained by the Director of Environmental Assessment and Approvals, has been searched back to 1985.
- 4) If an inspection of the Orders and/or Approvals identified is required please contact this office.
- 5) 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.
- 6) **Please advise your colleagues that responses to requests for searches always take some time. As a result MOE may not be able to meet deadlines imposed by other parties on real estate and other transactions.**

Signature: 
 Contact Name: Johanne Veilleux
 Title: Administrative Assistant

Address: Ministry of the Environment
 2430 Don Reid Drive
 Ottawa, ON K1H 1E1

Phone: (613) 521-3450 Ext 221

Date: April 10, 2014



TSSA Request and Response

From: squibell@tssa.org on behalf of [Public Information Services](#)
To: [Lyon, Tony](#)
Subject: Re: TSSA request for information - Limebank and Earl Armstrong Road
Date: Monday, February 03, 2014 4:30:47 PM

Hi Tony,

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.

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY

"Putting Public Safety First"

14th Floor, Centre Tower

3300 Bloor Street West

Toronto, ON M8X 2X4

www.tssa.org

Toll-Free: 1-877-682-8772

On Mon, Feb 3, 2014 at 4:26 PM, Lyon, Tony <Tony.Lyon@golder.com> wrote:

Hi Sarah,

We are in the process of preparing two Phase I Environmental Site Assessments for 4209 Limebank Road and 980 Earl Armstrong Road in Ottawa, Ontario.

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

4209, 4269, 4389 Limebank Road

702, 910, 980 Earl Armstrong Road

3740, 4001, 4623, 4628 Spratt Road

Thank you,

Tony

Tony Lyon (B.Eng B.A.) | Environmental Consultant | **Golder Associates Ltd.**

32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9

T: [+1 \(613\) 592 9600](tel:+16135929600) | **F:** [+1 \(613\) 592 9601](tel:+16135929601) | **C:** [+1 \(613\) 296-9746](tel:+16132969746) | **E:** Tony.Lyon@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: squibell@tssa.org [mailto:squibell@tssa.org] **On Behalf Of** Public Information Services

Sent: Friday, December 13, 2013 9:16 AM

To: Lyon, Tony

Subject: Re: TSSA request for information - 505 Preston St.

Hi Tony,

Thank you for your inquiry.

I have searched the below noted address (addresses) and I have located the following record:

505 Preston St, Ottawa has record of 8 expired underground tanks.

485 Preston St, Ottawa has record of 4 expired underground tanks.

For a more detailed report including underground fuel storage tank details and copies of all inspection reports, 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.

Thank you and have a great day!

Regards,

Sarah Quibell

Public Information Services

TECHNICAL STANDARDS & SAFETY AUTHORITY

"Putting Public Safety First"

14th Floor, Centre Tower

3300 Bloor Street West

Toronto, ON M8X 2X4

www.tssa.org

Toll-Free: [1-877-682-8772](tel:1-877-682-8772)

On Fri, Dec 13, 2013 at 9:08 AM, Lyon, Tony <Tony_Lyon@golder.com> wrote:

Hi Sarah,

We are in the process of preparing a Phase I Environmental Site Assessment for 505 Preston Street in Ottawa, Ontario.

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:

60 Adeline St.

485, 489, 491, 505 Preston St

829, 845, 855 Carling Ave

140 Hickory St.

39 Prince of Wales

Thank you,

Tony

Tony Lyon (B.Eng B.A.) | Environmental Consultant | **Golder Associates Ltd.**
32 Steacie Drive, Kanata, Ontario, Canada K2K 2A9
T: [+1 \(613\) 592 9600](tel:+16135929600) | **F:** [+1 \(613\) 592 9601](tel:+16135929601) | **C:** [+1 \(613\) 296-9746](tel:+16132969746) | **E:** Tony_Lyon@golder.com | www.golder.com

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APPENDIX C

EcoLog ERIS Report



DATABASE REPORT



Project Property:

quote

*980 Earl Armstrong Rd and 4209 Limebank Road
Ottawa ON K1V1R5*

Custom-Build Your Own Report

Report Type:

Order #:

20140129007

Requested by:

Golder Associates Ltd.

Date:

February 4, 2014

Ecolog ERIS Ltd.

Environmental Risk Information
Service Ltd. (ERIS)

A division of Glacier Media Inc.

P: 1.866.517.5204

E: info@erisinfo.com

www.erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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

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Executive Summary

Property Information:

Project Property: *quote*
980 Earl Armstrong Rd and 4209 Limebank Road Ottawa ON K1V1R5

Order Information:

Order No.: *20140129007*
Date Requested: *06/02/2014*
Requested by: *Golder Associates Ltd.*
Report Type: *Custom-Build Your Own Report*

Additional Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	2	13	15
CA	Certificates of Approval	Y	1	7	8
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	2	2
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	1	1	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	2	2
EIS	Environmental Issues Inventory System	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	9	9
HINC	TSSA Historic Incidents	Y	0	3	3
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defence & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	3	15	18
Total:			7	53	60

Executive Summary: Site Report Summary – Project Property

Map Key	DB	Company/Site Name	Address	Page Number
2	BORE		ON	15
4	BORE		ON	15
27	WWIS		ON	16
32	CA	Urbandale Realty Corporation Limited	4001 Spratt Rd Ottawa ON	16
32	ECA	Urbandale Realty Corporation Limited	4001 Spratt Rd Ottawa ON	17
35	WWIS		ON	17
36	WWIS		ON	17

Executive Summary: Site Report Summary – Surrounding Properties

Map Key	DB	Company/Site Name	Address	Page Number
1	BORE		ON	18
3	BORE		ON	18
5	WWIS		ON	19
6	BORE		ON	19
7	CA	URBAN DALE CORPORATION	HOT SPRINGS WAY/SHORELINE DR. GLOUCESTER ON	20
7	CA	URBAN DALE CORPORATION	LOT 19&20,C.1/HOT SPRINGS WAY GLOUCESTER CITY ON	20
7	CA	URBAN DALE CORPORATION	LOTS 19&20,C.1/HOT SPRINGS WAY GLOUCESTER CITY ON	20
7	CA	URBAN DALE CORPORATION	HOT SPRINGS WAY/SHORELINE DR. GLOUCESTER ON	21
8	PINC		3795 Canyon Walk, Ottawa ON	21
9	WWIS		ON	22
10	GEN	CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	22
10	GEN	CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	22
10	GEN	CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	22
10	GEN	CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	23
10	GEN	CITY OF OTTAWA PROGRAM PROPERTIES	910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	23
11	BORE		ON	23
12	WWIS		ON	24
12	WWIS		ON	24
13	BORE		ON	24
14	BORE		ON	25
15	HINC		318 ROYAL FERN WAY GLOUCESTER ON K1V 2K7	26
16	WWIS		ON	26
17	HINC		250 CROISSANT EYE BRIGHT GLOUCESTER ON K1V 2K7	27

Map Key	DB	Company/Site Name	Address	Page Number
18	WWIS		ON	27
18	WWIS		ON	27
18	WWIS		ON	28
19	HINC		573 DUSTY MILLER CRESCENT GLOUCESTER ON K1V 2K2	29
20	BORE		ON	29
21	ECA	Claridge Homes (River Road) Inc.	4624 Spratt Road Rd Ottawa ON	30
22	BORE		ON	30
23	BORE		ON	30
24	CA	City of Ottawa	Limebank Road and Earl Armstrong Rd Ottawa ON	31
24	CA	City of Ottawa	Limebank Road and Earl Armstrong Rd Ottawa ON	31
25	BORE		ON	32
26	WWIS		ON	32
28	WWIS		ON	33
29	EHS		4509 and 4515 Limebank Rd Ottawa ON	33
30	BORE		ON	33
31	BORE		ON	34
31	WWIS		ON	34
33	EHS		4260 Limebank Road Ottawa ON	35
34	BORE		ON	35
37	CA	Ottawa-Carleton Catholic School Board	4209 Limebank Rd North-east corner of Limebank Road and Spratt Road Ottawa ON	35
38	WWIS		ON	36
39	EASR	OTTAWA CATHOLIC DISTRICT SCHOOL BOARD	3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	36
39	EASR	OTTAWA CATHOLIC DISTRICT SCHOOL BOARD	3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	36
39	GEN	Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	36
39	GEN	Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	37
39	GEN	Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	37
39	GEN	Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON K1V 2M1	38

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Page Number</i>
40	WWIS		ON	38
40	WWIS		ON	39
40	WWIS		ON	40

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Aug 2011 has found that there are 15 BORE site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
	ON	1
	ON	2
	ON	3
	ON	4
	ON	6
	ON	11
	ON	13
	ON	14
	ON	20
	ON	22
	ON	23
	ON	25
	ON	30
	ON	31
	ON	34

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 8 CA site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
URBANDALE CORPORATION	LOT 19&20,C.1/HOT SPRINGS WAY GLOUCESTER CITY ON	7
URBANDALE CORPORATION	HOT SPRINGS WAY/SHORELINE DR. GLOUCESTER ON	7
URBANDALE CORPORATION	HOT SPRINGS WAY/SHORELINE DR. GLOUCESTER ON	7
URBANDALE CORPORATION	LOTS 19&20,C.1/HOT SPRINGS WAY GLOUCESTER CITY ON	7
City of Ottawa	Limebank Road and Earl Armstrong Rd Ottawa ON	24
City of Ottawa	Limebank Road and Earl Armstrong Rd Ottawa ON	24
Urbandale Realty Corporation Limited	4001 Spratt Rd Ottawa ON	32
Ottawa-Carleton Catholic School Board	4209 Limebank Rd North-east corner of Limebank Road and Spratt Road Ottawa ON	37

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 31 2011-Dec 2013 has found that there are 2 EASR site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
OTTAWA CATHOLIC DISTRICT SCHOOL BOARD	3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	39
OTTAWA CATHOLIC DISTRICT SCHOOL BOARD	3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	39

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 31, 2011-Jul 2013 has found that there are 2 ECA site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
Claridge Homes (River Road) Inc.	4624 Spratt Road Rd Ottawa ON	21
Urbandale Realty Corporation Limited	4001 Spratt Rd Ottawa ON	32

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 2013 has found that there are 2 EHS site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
	4509 and 4515 Limebank Rd Ottawa ON	29
	4260 Limebank Road Ottawa ON	33

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 2013 has found that there are 9 GEN site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	10
CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	10
CITY OF OTTAWA PROGRAM PROPERTIES	910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	10
CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON	10
CITY OF OTTAWA	910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	10
Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	39
Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON K1V 2M1	39
Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	39
Ottawa Catholic District School Board	3740 Spratt Road Ottawa ON	39

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009 has found that there are 3 HINC site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
	318 ROYAL FERN WAY GLOUCESTER ON K1V 2K7	15
	250 CROISSANT EYE BRIGHT GLOUCESTER ON K1V 2K7	17
	573 DUSTY MILLER CRESCENT GLOUCESTER ON K1V 2K2	19

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated June 2009-Mar 2012 has found that there are 1 PINC site(s) within

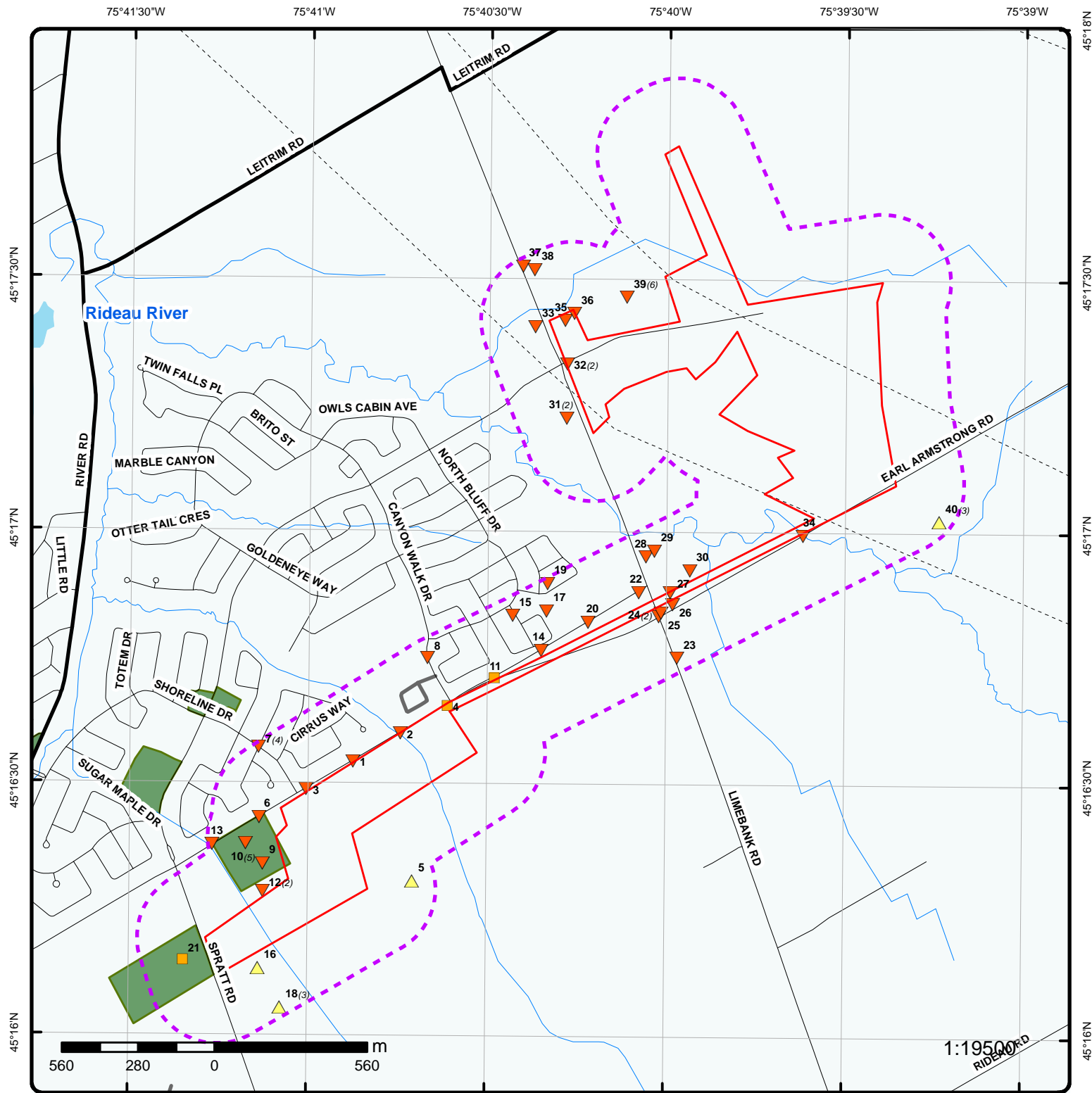
approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
	3795 Canyon Walk, Ottawa ON	8

WWIS - Water Well Information System

A search of the WWIS database, dated 1955-May 2013 has found that there are 18 WWIS site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
	ON	5
	ON	9
	ON	12
	ON	12
	ON	16
	ON	18
	ON	18
	ON	18
	ON	26
	ON	27
	ON	28
	ON	31
	ON	35
	ON	36
	ON	38
	ON	40
	ON	40
	ON	40



Map

Order No: 20140129007

Address: 980 Earl Armstrong Rd and 4209 Limebank Road, Ottawa, ON, K1V1R5

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

75°41'W

75°40'W

45°18'N

45°18'N

45°17'N

45°17'N

45°16'N

45°16'N

**Aerial**

Order No: 20140129007

Address: 980 Earl Armstrong Rd and 4209 Limebank Road, Ottawa, ON, K1V1R5

Source: ESRI World Imagery, Updated December 2012

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Detail Report

Map Key	Number of Records	Elevation m	Site	DB
2	1 of 1	91.0	ON	BORE
<div> <div> Borehole ID: 804573 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 446739.312 Location Accuracy: Elev. Reliability Note: Total Depth m: 1.600000 Township: Lot: Completion Date: 1994-NOV-15 Primary Water Use: </div> <div> Type: Borehole Status: UTM Zone: 18 Northing: 5013906.162 Orig. Ground Elev m: DEM Ground Elev m: 92 Primary Name: AH.11 Concession: Municipality: Static Water Level: Sec. Water Use: </div> </div>				
--- Details ---				
<div> <div> Stratum ID: 218581164 Bottom Depth m: 0.100000 + Stratum ID: 218581165 Bottom Depth m: 0.200000 + Stratum ID: 218581166 Bottom Depth m: 0.400000 + Stratum ID: 218581167 Bottom Depth m: 0.800000 + Stratum ID: 218581168 Bottom Depth m: 1.600000 </div> <div> Top Depth m: 0 Stratum Desc: Grey Crushed Stone With: Si Top Depth m: 0.100000 Stratum Desc: Brown Sand - Gravel With: Si Top Depth m: 0.200000 Stratum Desc: Dark Grey Silty Clay With: Gr Top Depth m: 0.400000 Stratum Desc: Dark Grey-Brown Topsoil Silty Clay With: Org M Top Depth m: 0.800000 Stratum Desc: Grey-Brown Silty Clay </div> </div>				
4	1 of 1	92.0	ON	BORE
<div> <div> Borehole ID: 804576 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 446911.694 Location Accuracy: Elev. Reliability Note: Total Depth m: 1.600000 Township: Lot: Completion Date: 1994-NOV-15 Primary Water Use: </div> <div> Type: Borehole Status: UTM Zone: 18 Northing: 5014006.940 Orig. Ground Elev m: DEM Ground Elev m: 93 Primary Name: AH.12 Concession: Municipality: Static Water Level: Sec. Water Use: </div> </div>				
--- Details ---				
<div> <div> Stratum ID: 218581182 Bottom Depth m: 0.100000 + Stratum ID: 218581183 </div> <div> Top Depth m: 0 Stratum Desc: Grey Crushed Stone With: Si Top Depth m: 0.100000 </div> </div>				

Map Key	Number of Records	Elevation m	Site	DB
Bottom Depth m:	0.300000		Stratum Desc:	Brown Sand - Gravel With: Si
+				
Stratum ID:	218581184		Top Depth m:	0.300000
Bottom Depth m:	0.600000		Stratum Desc:	Dark Grey-Brown Silty Clay Trace: Gr
+				
Stratum ID:	218581185		Top Depth m:	0.600000
Bottom Depth m:	0.800000		Stratum Desc:	Dark Brown Topsoil Silty Clay With: Org M
+				
Stratum ID:	218581186		Top Depth m:	0.800000
Bottom Depth m:	1.600000		Stratum Desc:	Grey-Brown Silty Clay

27 **1 of 1** **88.0** **ON** [WWIS](#)

Well Id:	1519066	Lot:	020
Concession:	02	Concession Name:	RF
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER
Easting Nad83:	447729.8	Northing Nad83:	5014421
Zone:	18	Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic	Construction Date:	12-JUN-84
Sec. Water Use:		Well Depth:	90 ft
Pump Rate:	20 GPM	Static Water Level:	10 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Water Supply
Construction Method:	Air Percussion	Flowing (y/n):	N
Elevation (m):	93.02	Elevation Reliability:	
Depth to Bedrock:	50	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	OPEN HOLE,STEEL

--- Details ---

Thickness:	16 ft	Original Depth:	16 ft
Material Colour:	BROWN	Material:	CLAY, PACKED
+			
Thickness:	25 ft	Original Depth:	41 ft
Material Colour:	BLUE	Material:	CLAY, SOFT
+			
Thickness:	9 ft	Original Depth:	50 ft
Material Colour:	BLUE	Material:	CLAY, GRAVEL, BOULDERS
+			
Thickness:	40 ft	Original Depth:	90 ft
Material Colour:	GREY	Material:	LIMESTONE, MEDIUM-GRAINED

32 **1 of 2** **90.0** **Urbandale Realty Corporation Limited** [CA](#)
4001 Spratt Rd
Ottawa ON

Certificate #: 0694-8EKN52
Application Year: 2011
Issue Date: 3/7/2011
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:

Map Key	Number of Records	Elevation m	Site	DB
32	2 of 2	90.0	Urbandale Realty Corporation Limited 4001 Spratt Rd Ottawa ON	ECA
CofA Number:		1826-8VVLZV		
Date:		7/10/2012		
Status:		Approved		
Project Type:		Municipal and Private Sewage		
35	1 of 1	89.9	ON	WWIS
Well Id:		1535501	Lot: 018	
Concession:		02	Concession Name:	
County:		OTTAWA-CARLETON	Municipality: GLOUCESTER	
Easting Nad83:		447345	Northing Nad83: 5015418	
Zone:		18	Utm Reliability:	
Primary Water Use:		Domestic	Construction Date: 15-MAR-05	
Sec. Water Use:			Well Depth: 8.53 m	
Pump Rate:		45 LPM	Static Water Level: 3.49 m	
Flow Rate:			Clear/Cloudy:	
Specific Capacity:			Final Well Status: Water Supply	
Construction Method:		Rotary (Air)	Flowing (y/n):	
Elevation (m):		90.3	Elevation Reliability:	
Depth to Bedrock:		56	Overburden/Bedrock: Bedrock	
Water Type:			Casing Material: OPEN HOLE	
--- Details ---				
Thickness:		8.53 m	Original Depth: 8.53 m	
Material Colour:		BROWN	Material: CLAY, PACKED	
+				
Thickness:		5.19 m	Original Depth: 13.72 m	
Material Colour:		GREY	Material: CLAY, SOFT	
+				
Thickness:		3.35 m	Original Depth: 17.07 m	
Material Colour:		GREY	Material: CLAY, GRAVEL, PACKED	
+				
Thickness:		32.83 m	Original Depth: 49.9 m	
Material Colour:		GREY	Material: LIMESTONE, HARD	
+				
Thickness:		8.62 m	Original Depth: 58.52 m	
Material Colour:		GREY	Material: SANDSTONE, HARD	
36	1 of 1	89.5	ON	WWIS
Well Id:		1536379	Lot:	
Concession:			Concession Name:	
County:		OTTAWA-CARLETON	Municipality: GLOUCESTER	
Easting Nad83:		447379	Northing Nad83: 5015444	
Zone:		18	Utm Reliability: margin of error : 10 - 30 m	
Primary Water Use:		Domestic	Construction Date: 27-APR-06	
Sec. Water Use:			Well Depth:	
Pump Rate:			Static Water Level:	
Flow Rate:			Clear/Cloudy:	
Specific Capacity:			Final Well Status: Abandoned-Other	

Map Key	Number of Records	Elevation m	Site	DB
Construction Method: Elevation (m): 88.64 Depth to Bedrock: Water Type:			Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:	
1	1 of 1	91.0	ON	BORE
Borehole ID: 804572 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 446566.881 Location Accuracy: Elev. Reliability Note: Total Depth m: 1.600000 Township: Lot: Completion Date: 1994-NOV-15 Primary Water Use:			Type: Borehole Status: UTM Zone: 18 Northing: 5013804.385 Orig. Ground Elev m: DEM Ground Elev m: 91.900002 Primary Name: AH.10 Concession: Municipality: Static Water Level: Sec. Water Use:	
--- Details ---				
Stratum ID: 218581159 Bottom Depth m: 0.100000 +			Top Depth m: 0 Stratum Desc: Grey Crushed Stone With: Si	
Stratum ID: 218581160 Bottom Depth m: 0.100000 +			Top Depth m: 0.100000 Stratum Desc: Brown Sand - Gravel With: Si	
Stratum ID: 218581161 Bottom Depth m: 0.300000 +			Top Depth m: 0.100000 Stratum Desc: Dark Brown Silty Clay	
Stratum ID: 218581162 Bottom Depth m: 0.500000 +			Top Depth m: 0.300000 Stratum Desc: Dark Brown Topsoil clay silt	
Stratum ID: 218581163 Bottom Depth m: 1.600000			Top Depth m: 0.500000 Stratum Desc: Grey-Brown Silty Clay	
3	1 of 1	91.0	ON	BORE
Borehole ID: 804570 Use: Geotechnical/Geological Investigation Drill Method: Hollow stem auger Easting: 446394.490 Location Accuracy: Elev. Reliability Note: Total Depth m: 1.600000 Township: Lot: Completion Date: 1994-NOV-15 Primary Water Use:			Type: Borehole Status: UTM Zone: 18 Northing: 5013703.107 Orig. Ground Elev m: DEM Ground Elev m: 91.800003 Primary Name: AH.9 Concession: Municipality: Static Water Level: Sec. Water Use:	
--- Details ---				
Stratum ID: 218581149 Bottom Depth m: 0.100000 +			Top Depth m: 0 Stratum Desc: Grey Crushed Stone With: Si	

Map Key	Number of Records	Elevation m	Site	DB
Stratum ID:	218581150		Top Depth m:	0.100000
Bottom Depth m:	0.200000		Stratum Desc:	Brown Sand - Gravel With: Si
+				
Stratum ID:	218581151		Top Depth m:	0.200000
Bottom Depth m:	0.300000		Stratum Desc:	Dark Grey-Brown Silty Clay
+				
Stratum ID:	218581152		Top Depth m:	0.300000
Bottom Depth m:	0.600000		Stratum Desc:	Dark Brown Topsoil clay silt
+				
Stratum ID:	218581153		Top Depth m:	0.600000
Bottom Depth m:	1.600000		Stratum Desc:	Grey-Brown Silty Clay

5	1 of 1	93.0	ON	<u>WWIS</u>
Well Id:	1509612		Lot:	022
Concession:	01		Concession Name:	RF
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446780.8		Northing Nad83:	5013362
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Domestic		Construction Date:	15-MAY-68
Sec. Water Use:			Well Depth:	33 ft
Pump Rate:	18 GPM		Static Water Level:	3 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Cable Tool		Flowing (y/n):	N
Elevation (m):	92.9		Elevation Reliability:	
Depth to Bedrock:	29		Overburden/Bedrock:	Bedrock
Water Type:	FRESH		Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:	29 ft		Original Depth:	29 ft
Material Colour:	BLUE		Material:	CLAY
+				
Thickness:	4 ft		Original Depth:	33 ft
Material Colour:	GREY		Material:	LIMESTONE

6	1 of 1	91.0	ON	<u>BORE</u>
Borehole ID:	804569		Type:	Borehole
Use:	Geotechnical/Geological Investigation		Status:	
Drill Method:	Hollow stem auger		UTM Zone:	18
Easting:	446222.067		Northing:	5013601.829
Location Accuracy:			Orig. Ground Elev m:	
Elev. Reliability Note:			DEM Ground Elev m:	91.599998
Total Depth m:	1.600000		Primary Name:	AH.8
Township:			Concession:	
Lot:			Municipality:	
Completion Date:	1994-NOV-15		Static Water Level:	
Primary Water Use:			Sec. Water Use:	
--- Details ---				
Stratum ID:	218581144		Top Depth m:	0
Bottom Depth m:	0.100000		Stratum Desc:	Grey Crushed Stone With: Si
+				

Map Key	Number of Records	Elevation m	Site	DB
Stratum ID:	218581145		Top Depth m:	0.100000
Bottom Depth m:	0.200000		Stratum Desc:	Brown Sand - Gravel With: Si
+				
Stratum ID:	218581146		Top Depth m:	0.200000
Bottom Depth m:	0.400000		Stratum Desc:	Dark Grey-Brown Silty Clay
+				
Stratum ID:	218581147		Top Depth m:	0.400000
Bottom Depth m:	0.600000		Stratum Desc:	Dark Brown Topsoil clay silt
+				
Stratum ID:	218581148		Top Depth m:	0.600000
Bottom Depth m:	1.600000		Stratum Desc:	Grey-Brown Silty Clay

7 **1 of 4** **90.2** **URBAN DALE CORPORATION
HOT SPRINGS WAY/SHORELINE DR.
GLOUCESTER ON** [CA](#)

Certificate #: 7-1139-98-
Application Year: 98
Issue Date: 11/19/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

7 **2 of 4** **90.2** **URBAN DALE CORPORATION
LOT 19&20,C.1/HOT SPRINGS WAY
GLOUCESTER CITY ON** [CA](#)

Certificate #: 7-0400-99-
Application Year: 99
Issue Date: 6/11/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

7 **3 of 4** **90.2** **URBAN DALE CORPORATION
LOTS 19&20,C.1/HOT SPRINGS WAY
GLOUCESTER CITY ON** [CA](#)

Certificate #: 3-0588-99-
Application Year: 99
Issue Date: 6/11/1999

Map Key	Number of Records	Elevation m	Site	DB
Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:				
7	4 of 4	90.2	URBAN DALE CORPORATION HOT SPRINGS WAY/SHORELINE DR. GLOUCESTER ON	CA
Certificate #: 3-1746-98- Application Year: 98 Issue Date: 11/19/1998 Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:				
8	1 of 1	91.0	3795 Canyon Walk, Ottawa ON	PINC
Incident ID: 2697796 Incident Number: 541338 SR Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Summary: 3795 Canyon Walk, Ottawa - Pipeline Hit Spills Action Centre: Reported By: Guy Castagne - TSSA Affiliation: Safety Authorities (MOL, ESA, Insurers, etc.) Method Details: utility damage Fuel Category: Heating Fuel Fuel Occurrence Type: Pipeline Strike Date of Occurrence: 3/1/2011 0:00 Occurrence Start Date: 3/1/2011 0:00 Health Impact: No Occurrence Desc: While contractor took precautions to avoid hitting gas while digging through frozen ground, the locates were out of date. Environment Impact: No Property Damage: Yes Service Interrupt: No Fuel Type: Natural Gas Enforce Policy: Yes Operation Type: Construction Site (pipeline strike) Damage Reason: Excavation practices not sufficient Public Relation: No Pipeline System: Pipeline Type: Depth:				

Map Key	Number of Records	Elevation m	Site	DB
Pipe Material: Regualtor Location: PSIG: Regulator Type: Notes:				
9	1 of 1	91.0	ON	WWIS
Well Id: 7182222 Concession: County: OTTAWA-CARLETON Easting Nad83: 446235 Zone: 18 Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:				
Lot: Concession Name: Municipality: GLOUCESTER Northing Nad83: 5013429 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 06-JUN-12 Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:				
10	1 of 5	91.0	CITY OF OTTAWA 910 EARL ARMSTRONG RD OTTAWA ON	GEN
SIC Code: 561210 SIC Description: Facilities Support Services Generator #: ON9167066 Approval Yrs: 2009 --- Details --- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES				
10	2 of 5	91.0	CITY OF OTTAWA 910 EARL ARMSTRONG RD OTTAWA ON	GEN
SIC Code: 561210 SIC Description: Facilities Support Services Generator #: ON9167066 Approval Yrs: 2010 --- Details --- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES				
10	3 of 5	91.0	CITY OF OTTAWA 910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	GEN
SIC Code: 561210 SIC Description: Facilities Support Services Generator #: ON9167066 Approval Yrs: 07,08				

Map Key	Number of Records	Elevation m	Site	DB
--- Details ---				
	Waste Code:	251		
	Waste Description:	OIL SKIMMINGS & SLUDGES		
10	4 of 5	91.0	CITY OF OTTAWA 910 EARL ARMSTRONG RD OTTAWA ON	GEN
	SIC Code:	561210		
	SIC Description:	Facilities Support Services		
	Generator #:	ON9167066		
	Approval Yrs:	2011		
--- Details ---				
	Waste Code:	251		
	Waste Description:	OIL SKIMMINGS & SLUDGES		
10	5 of 5	91.0	CITY OF OTTAWA PROGRAM PROPERTIES 910 EARL ARMSTRONG RD OTTAWA ON K1X 9G7	GEN
	SIC Code:			
	SIC Description:			
	Generator #:	ON9167066		
	Approval Yrs:	As of July 2013		
--- Details ---				
	Waste Code:	251		
	Waste Description:	Waste oils/sludges (petroleum based)		
11	1 of 1	92.0	ON	BORE
	Borehole ID:	804577	Type:	Borehole
	Use:	Geotechnical/Geological Investigation	Status:	
	Drill Method:	Hollow stem auger	UTM Zone:	18
	Easting:	447084.094	Northing:	5014108.717
	Location Accuracy:		Orig. Ground Elev m:	
	Elev. Reliability Note:		DEM Ground Elev m:	92.300003
	Total Depth m:	1.600000	Primary Name:	AH.13
	Township:		Concession:	
	Lot:		Municipality:	
	Completion Date:	1994-NOV-15	Static Water Level:	
	Primary Water Use:		Sec. Water Use:	
--- Details ---				
	Stratum ID:	218581187	Top Depth m:	0
	Bottom Depth m:	0.100000	Stratum Desc:	Grey Crushed Stone With: Si
	+			
	Stratum ID:	218581188	Top Depth m:	0.100000
	Bottom Depth m:	0.300000	Stratum Desc:	Brown Sand - Gravel With: Si
	+			
	Stratum ID:	218581189	Top Depth m:	0.300000
	Bottom Depth m:	0.500000	Stratum Desc:	Dark Brown Topsoil clay silt
	+			
	Stratum ID:	218581190	Top Depth m:	0.500000

Map Key	Number of Records	Elevation m	Site	DB
Bottom Depth m:	1.600000		Stratum Desc:	Grey-Brown to Reddish Brown Silty Clay
12	1 of 2	92.0	ON	WWIS
Well Id:	1524489		Lot:	021
Concession:	01		Concession Name:	
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446234		Northing Nad83:	5013330
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Cooling And A/C		Construction Date:	16-APR-90
Sec. Water Use:			Well Depth:	8 ft
Pump Rate:	4 GPM		Static Water Level:	22 ft
Flow Rate:			Clear/Cloudy:	CLOUDY
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Air Percussion		Flowing (y/n):	N
Elevation (m):	91.69		Elevation Reliability:	
Depth to Bedrock:	8		Overburden/Bedrock:	Bedrock
Water Type:			Casing Material:	STEEL
--- Details ---				
Thickness:	8 ft		Original Depth:	8 ft
Material Colour:	GREY		Material:	GRAVEL, FILL
+				
Thickness:	217 ft		Original Depth:	225 ft
Material Colour:	BROWN		Material:	SHALE
+				
Thickness:	275 ft		Original Depth:	500 ft
Material Colour:	GREY		Material:	LIMESTONE
12	2 of 2	92.0	ON	WWIS
Well Id:	1525376		Lot:	021
Concession:	01		Concession Name:	
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446234		Northing Nad83:	5013330
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Cooling And A/C		Construction Date:	05-MAR-91
Sec. Water Use:			Well Depth:	
Pump Rate:			Static Water Level:	
Flow Rate:			Clear/Cloudy:	
Specific Capacity:			Final Well Status:	Abandoned-Supply
Construction Method:	Not Known		Flowing (y/n):	
Elevation (m):	91.69		Elevation Reliability:	
Depth to Bedrock:			Overburden/Bedrock:	No formation data
Water Type:			Casing Material:	
13	1 of 1	90.0	ON	BORE
Borehole ID:	804567		Type:	Borehole
Use:	Geotechnical/Geological Investigation		Status:	
Drill Method:	Hollow stem auger		UTM Zone:	18
Easting:	446049.645		Northing:	5013500.551
Location Accuracy:			Orig. Ground Elev m:	

Map Key	Number of Records	Elevation m	Site	DB
Elev. Reliability Note:			DEM Ground Elev m:	90.800003
Total Depth m:		1.600000	Primary Name:	AH.7
Township:			Concession:	
Lot:			Municipality:	
Completion Date:		1994-NOV-15	Static Water Level:	
Primary Water Use:			Sec. Water Use:	
--- Details ---				
Stratum ID:		218581135	Top Depth m:	0
Bottom Depth m:		0	Stratum Desc:	Grey Crushed Stone With: Si
+				
Stratum ID:		218581136	Top Depth m:	0
Bottom Depth m:		0.200000	Stratum Desc:	Brown Sand - Gravel With: Si
+				
Stratum ID:		218581137	Top Depth m:	0.200000
Bottom Depth m:		0.500000	Stratum Desc:	Dark Grey-Brown clay silt Trace: Org M
+				
Stratum ID:		218581138	Top Depth m:	0.500000
Bottom Depth m:		0.700000	Stratum Desc:	Dark Brown Topsoil clay silt
+				
Stratum ID:		218581139	Top Depth m:	0.700000
Bottom Depth m:		1.600000	Stratum Desc:	Grey-Brown Silty Clay

14 **1 of 1** **91.0** **ON** **BORE**

Borehole ID:		804580	Type:	Borehole
Use:		Geotechnical/Geological Investigation	Status:	
Drill Method:		Hollow stem auger	UTM Zone:	18
Easting:		447256.516	Northing:	5014209.994
Location Accuracy:			Orig. Ground Elev m:	
Elev. Reliability Note:			DEM Ground Elev m:	92.300003
Total Depth m:		1.600000	Primary Name:	AH.14
Township:			Concession:	
Lot:			Municipality:	
Completion Date:		1994-NOV-15	Static Water Level:	
Primary Water Use:			Sec. Water Use:	
--- Details ---				
Stratum ID:		218581200	Top Depth m:	0
Bottom Depth m:		0.100000	Stratum Desc:	Grey Crushed Stone With: Si
+				
Stratum ID:		218581201	Top Depth m:	0.100000
Bottom Depth m:		0.300000	Stratum Desc:	Brown Sand - Gravel With: Si
+				
Stratum ID:		218581202	Top Depth m:	0.300000
Bottom Depth m:		0.400000	Stratum Desc:	Dark Brown Topsoil clay silt
+				
Stratum ID:		218581203	Top Depth m:	0.400000
Bottom Depth m:		0.600000	Stratum Desc:	Light Brown sand silt
+				
Stratum ID:		218581204	Top Depth m:	0.600000
Bottom Depth m:		1.600000	Stratum Desc:	Grey-Brown Silty Clay

Map Key	Number of Records	Elevation m	Site	DB
15	1 of 1	91.0	318 ROYAL FERN WAY GLOUCESTER ON K1V 2K7	HINC
External File Num:		FS INC 0804-01492		
Date of Occurrence:		3/31/2008		
Fuel Occurrence Type:		Pipeline Strike		
Fuel Type Involved:		Natural Gas		
Status Desc:		Completed - Causal Analysis(End)		
Job Type Desc:		Incident/Near-Miss Occurrence (FS)		
Oper. Type Involved:		Construction Site (pipeline strike)		
Service Interruptions:		Yes		
Property Damage:		Yes		
Fuel Life Cycle Stage:		Transmission, Distribution and Transportation		
Root Cause:		Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:Yes Management:Yes Human Factors:Yes		
Reported Details:				
Fuel Category:		Gaseous Fuel		
Occurrence Type:		Incident		
Affiliation:		Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
County Name:		Ottawa		
Approx. Quant. Rel:				
Nearby body of water:				
Enter Drainage Syst.:				
Approx. Quant. Unit:				
Environmental Impact:				

16	1 of 1	92.9	ON	WWIS
Well Id:		1514951	Lot:	022
Concession:		01	Concession Name:	RF
County:		OTTAWA-CARLETON	Municipality:	GLOUCESTER
Easting Nad83:		446214.8	Northing Nad83:	5013045
Zone:		18	Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:		Domestic	Construction Date:	02-SEP-75
Sec. Water Use:			Well Depth:	8 ft
Pump Rate:		6 GPM	Static Water Level:	20 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:		Air Precussion	Flowing (y/n):	N
Elevation (m):		92.42	Elevation Reliability:	
Depth to Bedrock:		28	Overburden/Bedrock:	Bedrock
Water Type:		FRESH	Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:		8 ft	Original Depth:	8 ft
Material Colour:		BROWN	Material:	SAND, BOULDERS, PACKED
+				
Thickness:		20 ft	Original Depth:	28 ft
Material Colour:		GREY	Material:	CLAY, STICKY
+				
Thickness:		77 ft	Original Depth:	105 ft
Material Colour:		BLACK	Material:	LIMESTONE
+				
Thickness:		35 ft	Original Depth:	140 ft
Material Colour:		WHITE	Material:	SANDSTONE, LIMESTONE, LAYERED
+				

Map Key	Number of Records	Elevation m	Site	DB
Thickness:	83 ft		Original Depth:	223 ft
Material Colour:	WHITE		Material:	SANDSTONE, PACKED
17	1 of 1	91.0	250 CROISSANT EYE BRIGHT GLOUCESTER ON K1V 2K7	HINC
External File Num:	FS INC 0809-05114			
Date of Occurrence:	8/29/2008			
Fuel Occurrence Type:	Pipeline Strike			
Fuel Type Involved:	Natural Gas			
Status Desc:	Completed - Causal Analysis(End)			
Job Type Desc:	Incident/Near-Miss Occurrence (FS)			
Oper. Type Involved:	Construction Site (pipeline strike)			
Service Interruptions:	Yes			
Property Damage:	No			
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation			
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:Yes Training:No Management:No Human Factors:No			
Reported Details:				
Fuel Category:	Gaseous Fuel			
Occurrence Type:	Incident			
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)			
County Name:	Ottawa			
Approx. Quant. Rel:				
Nearby body of water:				
Enter Drainage Syst.:				
Approx. Quant. Unit:				
Environmental Impact:				
18	1 of 3	94.0	ON	WWIS
Well Id:	1520426		Lot:	022
Concession:	01		Concession Name:	
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446295		Northing Nad83:	5012901
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Domestic		Construction Date:	11-NOV-85
Sec. Water Use:			Well Depth:	36 ft
Pump Rate:	5 GPM		Static Water Level:	50 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Rotary (Convent.)		Flowing (y/n):	N
Elevation (m):	93.19		Elevation Reliability:	
Depth to Bedrock:	36		Overburden/Bedrock:	Bedrock
Water Type:	FRESH		Casing Material:	STEEL
--- Details ---				
Thickness:	36 ft		Original Depth:	36 ft
Material Colour:			Material:	CLAY, STONES
+				
Thickness:	79 ft		Original Depth:	115 ft
Material Colour:	GREY		Material:	LIMESTONE
18	2 of 3	94.0	ON	WWIS

Map Key	Number of Records	Elevation m	Site	DB
Well Id:	1523059		Lot:	022
Concession:	01		Concession Name:	
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446295		Northing Nad83:	5012901
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Domestic		Construction Date:	21-NOV-88
Sec. Water Use:			Well Depth:	62 ft
Pump Rate:	10 GPM		Static Water Level:	30 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Air Percussion		Flowing (y/n):	N
Elevation (m):	93.19		Elevation Reliability:	
Depth to Bedrock:	62		Overburden/Bedrock:	Bedrock
Water Type:	FRESH		Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:	16 ft		Original Depth:	16 ft
Material Colour:	BROWN		Material:	CLAY, PACKED
+				
Thickness:	29 ft		Original Depth:	45 ft
Material Colour:	GREY		Material:	CLAY, STICKY
+				
Thickness:	17 ft		Original Depth:	62 ft
Material Colour:	GREY		Material:	SAND, PACKED
+				
Thickness:	128 ft		Original Depth:	190 ft
Material Colour:	GREY		Material:	LIMESTONE
+				
Thickness:	60 ft		Original Depth:	250 ft
Material Colour:	GREY		Material:	SANDSTONE
18	3 of 3	94.0	ON	WWIS
Well Id:	1521467		Lot:	022
Concession:	01		Concession Name:	RF
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	446295		Northing Nad83:	5012901
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Domestic		Construction Date:	16-JUN-87
Sec. Water Use:			Well Depth:	6 ft
Pump Rate:	10 GPM		Static Water Level:	2 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Air Percussion		Flowing (y/n):	N
Elevation (m):	93.19		Elevation Reliability:	
Depth to Bedrock:	23		Overburden/Bedrock:	Bedrock
Water Type:	FRESH		Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:	6 ft		Original Depth:	6 ft
Material Colour:	BROWN		Material:	CLAY, SANDY
+				
Thickness:	17 ft		Original Depth:	23 ft
Material Colour:	GREY		Material:	CLAY, SANDY, BOULDERS
+				

Map Key	Number of Records	Elevation m	Site	DB
Thickness:	27 ft		Original Depth:	50 ft
Material Colour:	GREY		Material:	SANDSTONE, HARD

19	1 of 1	90.2	573 DUSTY MILLER CRESCENT GLOUCESTER ON K1V 2K2	HINC
<p> <i>External File Num:</i> FS INC 0805-02017 <i>Date of Occurrence:</i> 4/24/2008 <i>Fuel Occurrence Type:</i> Pipeline Strike <i>Fuel Type Involved:</i> Natural Gas <i>Status Desc:</i> Completed - Causal Analysis(End) <i>Job Type Desc:</i> Incident/Near-Miss Occurrence (FS) <i>Oper. Type Involved:</i> Construction Site (pipeline strike) <i>Service Interruptions:</i> Yes <i>Property Damage:</i> Yes <i>Fuel Life Cycle Stage:</i> Transmission, Distribution and Transportation <i>Root Cause:</i> Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:Yes Human Factors:Yes </p> <p> <i>Reported Details:</i> <i>Fuel Category:</i> Gaseous Fuel <i>Occurrence Type:</i> Incident <i>Affiliation:</i> Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) <i>County Name:</i> Ottawa <i>Approx. Quant. Rel:</i> <i>Nearby body of water:</i> <i>Enter Drainage Syst.:</i> <i>Approx. Quant. Unit:</i> <i>Environmental Impact:</i> </p>				

20	1 of 1	91.0	ON	BORE
<p> <i>Borehole ID:</i> 804586 <i>Use:</i> Geotechnical/Geological Investigation <i>Drill Method:</i> Hollow stem auger <i>Easting:</i> 447428.917 <i>Location Accuracy:</i> <i>Elev. Reliability Note:</i> <i>Total Depth m:</i> 1.600000 <i>Township:</i> <i>Lot:</i> <i>Completion Date:</i> 1994-NOV-15 <i>Primary Water Use:</i> </p> <p> <i>Type:</i> Borehole <i>Status:</i> <i>UTM Zone:</i> 18 <i>Northing:</i> 5014311.772 <i>Orig. Ground Elev m:</i> <i>DEM Ground Elev m:</i> 92.599998 <i>Primary Name:</i> AH.15 <i>Concession:</i> <i>Municipality:</i> <i>Static Water Level:</i> <i>Sec. Water Use:</i> </p> <p> --- Details --- </p> <p> <i>Stratum ID:</i> 218581223 <i>Bottom Depth m:</i> 0 + <i>Stratum ID:</i> 218581224 <i>Bottom Depth m:</i> 0.300000 + <i>Stratum ID:</i> 218581225 <i>Bottom Depth m:</i> 0.400000 + <i>Stratum ID:</i> 218581226 <i>Bottom Depth m:</i> 0.500000 </p> <p> <i>Top Depth m:</i> 0 <i>Stratum Desc:</i> Grey Crushed Stone With: Si <i>Top Depth m:</i> 0 <i>Stratum Desc:</i> Brown Sand - Gravel With: Si <i>Top Depth m:</i> 0.300000 <i>Stratum Desc:</i> Dark Brown sand silt <i>Top Depth m:</i> 0.400000 <i>Stratum Desc:</i> Dark Brown Topsoil sand silt </p>				

Map Key	Number of Records	Elevation m	Site	DB	
<div><div><div><div><div>+</div><div>Stratum ID:218581227</div><div>Bottom Depth m:0.700000</div></div><div><div>Top Depth m:0.500000</div><div>Stratum Desc:Brown sand silt</div></div></div><div><div>+</div><div>Stratum ID:218581228</div><div>Bottom Depth m:1.600000</div></div><div><div>Top Depth m:0.700000</div><div>Stratum Desc:Grey-Brown Silty Clay</div></div></div></div>					
21	1 of 1	92.0	Claridge Homes (River Road) Inc. 4624 Spratt Road Rd Ottawa ON	ECA	
CofA Number:		4987-8XURQE			
Date:		9/18/2012			
Status:		Approved			
Project Type:		Municipal and Private Sewage			
22	1 of 1	90.0	ON	BORE	
Borehole ID:		804589		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status:	
Drill Method:		Hollow stem auger		UTM Zone:	18
Easting:		447614.253		Northing:	5014420.307
Location Accuracy:				Orig. Ground Elev m:	
Elev. Reliability Note:				DEM Ground Elev m:	92
Total Depth m:		1.600000		Primary Name:	AH.16
Township:				Concession:	
Lot:				Municipality:	
Completion Date:		1994-NOV-15		Static Water Level:	
Primary Water Use:				Sec. Water Use:	
--- Details ---					
Stratum ID:		218581234		Top Depth m:	0
Bottom Depth m:		0.100000		Stratum Desc:	Grey Crushed Stone With: Si
+					
Stratum ID:		218581235		Top Depth m:	0.100000
Bottom Depth m:		0.300000		Stratum Desc:	Brown Sand - Gravel With: Si
+					
Stratum ID:		218581236		Top Depth m:	0.300000
Bottom Depth m:		0.500000		Stratum Desc:	Dark Grey clay silt Trace: Gr
+					
Stratum ID:		218581237		Top Depth m:	0.500000
Bottom Depth m:		0.800000		Stratum Desc:	Dark Grey-Brown Topsoil clay silt
+					
Stratum ID:		218581238		Top Depth m:	0.800000
Bottom Depth m:		1.600000		Stratum Desc:	Grey-Brown to Reddish Brown Silty Clay
23	1 of 1	89.0	ON	BORE	
Borehole ID:		809215		Type:	Borehole
Use:		Geotechnical/Geological Investigation		Status:	
Drill Method:		Hollow stem auger		UTM Zone:	18

Map Key	Number of Records	Elevation m	Site	DB
Easting: Location Accuracy: Elev. Reliability Note: Total Depth m: Township: Lot: Completion Date: Primary Water Use:	447753.297 1.500000 1995-DEC-9		Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	5014180.255 93.800003 AH.95-27
--- Details ---				
Stratum ID:	218599273		Top Depth m:	0
Bottom Depth m:	0.100000		Stratum Desc:	Asphalt
+				
Stratum ID:	218599274		Top Depth m:	0.100000
Bottom Depth m:	0.500000		Stratum Desc:	Brown Sand - Gravel With: Cob Trace: Si
+				
Stratum ID:	218599275		Top Depth m:	0.500000
Bottom Depth m:	0.900000		Stratum Desc:	Grey Fill-Misc Silt - Sand Occasional: Cob
+				
Stratum ID:	218599276		Top Depth m:	0.900000
Bottom Depth m:	1		Stratum Desc:	Dark Brown Silt With: Org M
+				
Stratum ID:	218599277		Top Depth m:	1
Bottom Depth m:	1.500000		Stratum Desc:	Grey-Brown clay silt

24 **1 of 2** **89.0** **City of Ottawa** [CA](#)
Limebank Road and Earl Armstrong Rd
Ottawa ON

Certificate #: 2134-83GL8H
Application Year: 2010
Issue Date: 3/15/2010
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:

24 **2 of 2** **89.0** **City of Ottawa** [CA](#)
Limebank Road and Earl Armstrong Rd
Ottawa ON

Certificate #: 0357-882LG7
Application Year: 2010
Issue Date: 8/20/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:

Map Key	Number of Records	Elevation m	Site	DB
Client City: Client Postal Code: Project Description: Contaminants: Emission Control:				
25	1 of 1	89.0	ON	BORE
Borehole ID: 809217		Type: Borehole		
Use: Geotechnical/Geological Investigation		Status:		
Drill Method: Hollow stem auger		UTM Zone: 18		
Easting: 447696.448		Northing: 5014345.789		
Location Accuracy:		Orig. Ground Elev m:		
Elev. Reliability Note:		DEM Ground Elev m: 93.400002		
Total Depth m: 1.500000		Primary Name: AH.95-28		
Township:		Concession:		
Lot:		Municipality:		
Completion Date: 1995-DEC-9		Static Water Level:		
Primary Water Use:		Sec. Water Use:		
--- Details ---				
Stratum ID: 218599282		Top Depth m: 0		
Bottom Depth m: 0.100000		Stratum Desc: Asphalt		
+				
Stratum ID: 218599283		Top Depth m: 0.100000		
Bottom Depth m: 0.200000		Stratum Desc: Grey Crushed Stone		
+				
Stratum ID: 218599284		Top Depth m: 0.200000		
Bottom Depth m: 0.400000		Stratum Desc: Asphalt		
+				
Stratum ID: 218599285		Top Depth m: 0.400000		
Bottom Depth m: 0.700000		Stratum Desc: Brown Sand - Gravel With: Cob Trace: Si		
+				
Stratum ID: 218599286		Top Depth m: 0.700000		
Bottom Depth m: 1.100000		Stratum Desc: Grey Fill-Misc Silty Clay Trace: Gr Tr Org M		
+				
Stratum ID: 218599287		Top Depth m: 1.100000		
Bottom Depth m: 1.500000		Stratum Desc: Grey-Brown Silty Clay		
26	1 of 1	89.0	ON	WWIS
Well Id: 7160257		Lot:		
Concession:		Concession Name:		
County: OTTAWA-CARLETON		Municipality: GLOUCESTER		
Easting Nad83: 447738		Northing Nad83: 5014378		
Zone: 18		Utm Reliability: margin of error : 100 m - 300 m		
Primary Water Use:		Construction Date: 23-FEB-11		
Sec. Water Use:		Well Depth:		
Pump Rate:		Static Water Level:		
Flow Rate:		Clear/Cloudy:		
Specific Capacity:		Final Well Status:		
Construction Method:		Flowing (y/n):		

Map Key	Number of Records	Elevation m	Site	DB
Elevation (m):		Elevation Reliability:		
Depth to Bedrock:		Overburden/Bedrock:		
Water Type:		Casing Material:		
--- Details ---				
Thickness:	m	Original Depth:	m	
Material Colour:		Material:		
28	1 of 1	90.2	ON	WWIS
Well Id:	1501711	Lot:	020	
Concession:	02	Concession Name:	RF	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER	
Easting Nad83:	447640.8	Northing Nad83:	5014552	
Zone:	18	Utm Reliability:	margin of error : 100 m - 300 m	
Primary Water Use:	Domestic	Construction Date:	17-MAY-56	
Sec. Water Use:		Well Depth:	80 ft	
Pump Rate:	5 GPM	Static Water Level:	19 ft	
Flow Rate:		Clear/Cloudy:	CLEAR	
Specific Capacity:		Final Well Status:	Water Supply	
Construction Method:	Cable Tool	Flowing (y/n):	N	
Elevation (m):	92.06	Elevation Reliability:		
Depth to Bedrock:	42	Overburden/Bedrock:	Bedrock	
Water Type:	FRESH	Casing Material:	OPEN HOLE,STEEL	
--- Details ---				
Thickness:	42 ft	Original Depth:	42 ft	
Material Colour:		Material:	CLAY	
+				
Thickness:	38 ft	Original Depth:	80 ft	
Material Colour:	GREY	Material:	LIMESTONE	
29	1 of 1	89.0	4509 and 4515 Limebank Rd Ottawa ON	EHS
Order No.:	20100913048			
Report Date:	9/22/2010			
Report Type:	Custom Report			
Search Radius (km):	0.25			
Addit. Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches			
30	1 of 1	90.8	ON	BORE
Borehole ID:	612097	Type:	Borehole	
Use:		Status:		
Drill Method:		UTM Zone:	18	
Easting:	447801.000	Northing:	5014502.000	
Location Accuracy:		Orig. Ground Elev m:	91.400002	
Elev. Reliability Note:		DEM Ground Elev m:	93	
Total Depth m:	-999.000000	Primary Name:		
Township:		Concession:		
Lot:		Municipality:		
Completion Date:		Static Water Level:	5.800000	
Primary Water Use:		Sec. Water Use:		
33	erisinfo.com EcoLog ERIS Ltd.			Order #: 20140129007
quote	980 Earl Armstrong Rd and 4209 Limebank Road Ottawa ON K1V1R5			

Map Key	Number of Records	Elevation m	Site	DB
--- Details ---				
Stratum ID:	218390052		Top Depth m:	0
Bottom Depth m:	12.800000		Stratum Desc:	CLAY.
+				
Stratum ID:	218390053		Top Depth m:	12.800000
Bottom Depth m:			Stratum Desc:	BEDROCK,LIMESTONE. WATER STABLE AT 281.0 FEET.FEET.BEDROCK,LIMESTONE. SEISMIC VELOCITY =
31	1 of 2	91.0	ON	BORE
Borehole ID:	612108		Type:	Borehole
Use:			Status:	
Drill Method:			UTM Zone:	18
Easting:	447351.000		Northing:	5015062.000
Location Accuracy:			Orig. Ground Elev m:	91.099998
Elev. Reliability Note:			DEM Ground Elev m:	90.300003
Total Depth m:	17.400000		Primary Name:	
Township:			Concession:	
Lot:			Municipality:	
Completion Date:	1957-NOV		Static Water Level:	
Primary Water Use:			Sec. Water Use:	
--- Details ---				
Stratum ID:	218390073		Top Depth m:	0
Bottom Depth m:	12.800000		Stratum Desc:	CLAY.
+				
Stratum ID:	218390074		Top Depth m:	12.800000
Bottom Depth m:	17.400000		Stratum Desc:	LIMESTONE. 00057Y = 1200. UNSPECIFIED. SEISMIC VELOCITY = 6100. BEDROCK. SEISMIC VELOCITY =
31	2 of 2	91.0	ON	WWIS
Well Id:	1500867		Lot:	019
Concession:	01		Concession Name:	RF
County:	OTTAWA-CARLETON		Municipality:	GLOUCESTER
Easting Nad83:	447350.8		Northing Nad83:	5015062
Zone:	18		Utm Reliability:	unknown UTM
Primary Water Use:	Domestic		Construction Date:	06-NOV-57
Sec. Water Use:			Well Depth:	57 ft
Pump Rate:	6 GPM		Static Water Level:	9 ft
Flow Rate:			Clear/Cloudy:	CLEAR
Specific Capacity:			Final Well Status:	Water Supply
Construction Method:	Cable Tool		Flowing (y/n):	N
Elevation (m):	90.33		Elevation Reliability:	
Depth to Bedrock:	42		Overburden/Bedrock:	Bedrock
Water Type:	FRESH		Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:	42 ft		Original Depth:	42 ft
Material Colour:			Material:	CLAY
+				

Map Key	Number of Records	Elevation m	Site	DB
Thickness:	15 ft		Original Depth:	57 ft
Material Colour:			Material:	LIMESTONE
33	1 of 1	89.1	4260 Limebank Road Ottawa ON	EHS
Order No.:	20080819042			
Report Date:	8/27/2008			
Report Type:	Complete Report			
Search Radius (km):	0.25			
Addit. Info Ordered:	Title Search			
34	1 of 1	87.9	ON	BORE
Borehole ID:	809219		Type:	Borehole
Use:	Geotechnical/Geological Investigation		Status:	
Drill Method:	Hollow stem auger		UTM Zone:	18
Easting:	448216.446		Northing:	5014628.571
Location Accuracy:			Orig. Ground Elev m:	101.199997
Elev. Reliability Note:			DEM Ground Elev m:	87
Total Depth m:	8.200000		Primary Name:	BH.95-1
Township:			Concession:	
Lot:			Municipality:	
Completion Date:	1995-DEC-11		Static Water Level:	1.900000
Primary Water Use:			Sec. Water Use:	
--- Details ---				
Stratum ID:	218599291		Top Depth m:	0
Bottom Depth m:	0.300000		Stratum Desc:	Grey-Brown Crushed Stone Sand - Gravel Trace: Si
+				
Stratum ID:	218599292		Top Depth m:	0.300000
Bottom Depth m:	1.500000		Stratum Desc:	Grey-Brown Compact Fill-Misc Sand - Gravel With: Si
+				
Stratum ID:	218599293		Top Depth m:	1.500000
Bottom Depth m:	3.800000		Stratum Desc:	Grey-Brown Loose to Compact Fill-Misc Silt - Sand With: Gr W Cob Trace: Org M
+				
Stratum ID:	218599294		Top Depth m:	3.800000
Bottom Depth m:	4.100000		Stratum Desc:	Silt - Sand With: Org M
+				
Stratum ID:	218599295		Top Depth m:	4.100000
Bottom Depth m:	8.200000		Stratum Desc:	Grey Compact to Loose Silt - Sand Trace: Gr
37	1 of 1	89.0	Ottawa-Carleton Catholic School Board 4209 Limebank Rd North-east corner of Limebank Road and Spratt Road Ottawa ON	CA
Certificate #:	8630-7GVKEK			
Application Year:	2008			
Issue Date:	8/8/2008			

Map Key	Number of Records	Elevation m	Site	DB
Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:				
38	1 of 1	90.0	ON	WWIS
Well Id: 7040010 Concession: County: OTTAWA-CARLETON Easting Nad83: 447234 Zone: 18 Primary Water Use: Not Used Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Digging Elevation (m): 90.53 Depth to Bedrock: Water Type:				
Lot: Concession Name: Municipality: OTTAWA Northing Nad83: 5015606 Utm Reliability: margin of error : 10 - 30 m Construction Date: 24-NOV-06 Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Abandoned-Other Flowing (y/n): Elevation Reliability: Overburden/Bedrock: No formation data Casing Material:				
39	1 of 6	90.0	OTTAWA CATHOLIC DISTRICT SCHOOL BOARD 3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	EASR
CofA Number: R-002-4529879400 Date: 2/13/2012 Status: Registered Project Type: Standby Power System				
39	2 of 6	90.0	OTTAWA CATHOLIC DISTRICT SCHOOL BOARD 3740 SPRATT ROAD GLOUCESTER ON K1V 2M1	EASR
CofA Number: R-003-6536192436 Date: 2/14/2012 Status: Registered Project Type: Heating System				
39	3 of 6	90.0	Ottawa Catholic District School Board 3740 Spratt Road Ottawa ON	GEN
SIC Code: 611110 SIC Description: Elementary and Secondary Schools Generator #: ON4031115 Approval Yrs: 2009				

Map Key	Number of Records	Elevation m	Site	DB
--- Details ---				
	Waste Code:	145		
	Waste Description:	PAINT/PIGMENT/COATING RESIDUES		
	+			
	Waste Code:	148		
	Waste Description:	INORGANIC LABORATORY CHEMICALS		
	+			
	Waste Code:	252		
	Waste Description:	WASTE OILS & LUBRICANTS		
	+			
	Waste Code:	263		
	Waste Description:	ORGANIC LABORATORY CHEMICALS		
	+			
	Waste Code:	264		
	Waste Description:	PHOTOPROCESSING WASTES		
39	4 of 6	90.0	Ottawa Catholic District School Board 3740 Spratt Road Ottawa ON	<u>GEN</u>
	SIC Code:	611110		
	SIC Description:	Elementary and Secondary Schools		
	Generator #:	ON4031115		
	Approval Yrs:	2010		
--- Details ---				
	Waste Code:	148		
	Waste Description:	INORGANIC LABORATORY CHEMICALS		
	+			
	Waste Code:	145		
	Waste Description:	PAINT/PIGMENT/COATING RESIDUES		
	+			
	Waste Code:	263		
	Waste Description:	ORGANIC LABORATORY CHEMICALS		
	+			
	Waste Code:	252		
	Waste Description:	WASTE OILS & LUBRICANTS		
	+			
	Waste Code:	146		
	Waste Description:	OTHER SPECIFIED INORGANICS		
	+			
	Waste Code:	264		
	Waste Description:	PHOTOPROCESSING WASTES		
39	5 of 6	90.0	Ottawa Catholic District School Board 3740 Spratt Road Ottawa ON	<u>GEN</u>
	SIC Code:	611110		
	SIC Description:	Elementary and Secondary Schools		
	Generator #:	ON4031115		
	Approval Yrs:	2011		
--- Details ---				
	Waste Code:	148		
	Waste Description:	INORGANIC LABORATORY CHEMICALS		
	+			
	Waste Code:	252		
	Waste Description:	WASTE OILS & LUBRICANTS		
	+			
	Waste Code:	264		

Map Key	Number of Records	Elevation m	Site	DB
<div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> </div> <div> <div>PHOTOPROCESSING WASTES</div> <div>263</div> <div>ORGANIC LABORATORY CHEMICALS</div> <div>145</div> <div>PAINT/PIGMENT/COATING RESIDUES</div> <div>146</div> <div>OTHER SPECIFIED INORGANICS</div> </div>				
39	6 of 6	90.0	Ottawa Catholic District School Board 3740 Spratt Road Ottawa ON K1V 2M1	<u>GEN</u>
<div> <div>SIC Code:</div> <div>SIC Description:</div> <div>Generator #:</div> <div>Approval Yrs:</div> </div> <div> <div></div> <div></div> <div>ON4031115</div> <div>As of July 2013</div> </div>				
--- Details ---				
<div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> <div>+</div> <div>Waste Code:</div> <div>Waste Description:</div> </div> <div> <div>145</div> <div>Wastes from the use of pigments, coatings and paints</div> <div>146</div> <div>Other specified inorganic sludges, slurries or solids</div> <div>148</div> <div>Misc. wastes and inorganic chemicals</div> <div>213</div> <div>Petroleum distillates</div> <div>251</div> <div>Waste oils/sludges (petroleum based)</div> <div>252</div> <div>Waste crankcase oils and lubricants</div> <div>263</div> <div>Misc. waste organic chemicals</div> <div>264</div> <div>Photoprocessing wastes</div> </div>				
40	1 of 3	92.7	ON	<u>WWIS</u>
<div> <div>Well Id:</div> <div>Concession:</div> <div>County:</div> <div>Easting Nad83:</div> <div>Zone:</div> <div>Primary Water Use:</div> <div>Sec. Water Use:</div> <div>Pump Rate:</div> <div>Flow Rate:</div> <div>Specific Capacity:</div> <div>Construction Method:</div> <div>Elevation (m):</div> <div>Depth to Bedrock:</div> </div> <div> <div>1521395</div> <div>02</div> <div>OTTAWA-CARLETON</div> <div>448714</div> <div>18</div> <div>Not Used</div> <div></div> <div>33 GPM</div> <div></div> <div></div> <div>Rotary (Convent.)</div> <div>93.39</div> <div>56</div> </div> <div> <div>Lot:</div> <div>Concession Name:</div> <div>Municipality:</div> <div>Northing Nad83:</div> <div>Utm Reliability:</div> <div>Construction Date:</div> <div>Well Depth:</div> <div>Static Water Level:</div> <div>Clear/Cloudy:</div> <div>Final Well Status:</div> <div>Flowing (y/n):</div> <div>Elevation Reliability:</div> <div>Overburden/Bedrock:</div> </div> <div> <div>021</div> <div></div> <div>GLOUCESTER</div> <div>5014676</div> <div>unknown UTM</div> <div>23-MAR-87</div> <div>6 ft</div> <div>9 ft</div> <div>CLEAR</div> <div>Observation Wells</div> <div>N</div> <div></div> <div>Bedrock</div> </div>				

Map Key	Number of Records	Elevation m	Site	DB
Water Type:	FRESH,Not stated,FRESH,Not stated		Casing Material:	OPEN HOLE,STEEL
--- Details ---				
Thickness:	6 ft		Original Depth:	6 ft
Material Colour:	BROWN		Material:	CLAY
+				
Thickness:	22 ft		Original Depth:	28 ft
Material Colour:	BLUE		Material:	CLAY
+				
Thickness:	7 ft		Original Depth:	35 ft
Material Colour:	GREY		Material:	TILL, STONES
+				
Thickness:	21 ft		Original Depth:	56 ft
Material Colour:	GREY		Material:	SAND, GRAVEL, BOULDERS
+				
Thickness:	137 ft		Original Depth:	193 ft
Material Colour:	GREY		Material:	LIMESTONE, SHALE
+				
Thickness:	4 ft		Original Depth:	197 ft
Material Colour:	WHITE		Material:	SANDSTONE
+				
Thickness:	6 ft		Original Depth:	203 ft
Material Colour:	GREY		Material:	LIMESTONE, SANDSTONE, DENSE
+				
Thickness:	3 ft		Original Depth:	206 ft
Material Colour:	GREY		Material:	SANDSTONE, HARD
+				
Thickness:	15 ft		Original Depth:	221 ft
Material Colour:	WHITE		Material:	SANDSTONE
+				
Thickness:	69 ft		Original Depth:	290 ft
Material Colour:	GREY		Material:	SANDSTONE, LIMESTONE, HARD

40 **2 of 3** **92.7** **ON** [WWIS](#)

Well Id:	1521394	Lot:	021
Concession:	02	Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER
Easting Nad83:	448714	Northing Nad83:	5014676
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Not Used	Construction Date:	18-MAR-87
Sec. Water Use:		Well Depth:	64 ft
Pump Rate:	12 GPM	Static Water Level:	4 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Observation Wells
Construction Method:	Rotary (Convent.)	Flowing (y/n):	N
Elevation (m):	93.39	Elevation Reliability:	
Depth to Bedrock:	48	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	OPEN HOLE,STEEL

--- Details ---

Thickness:	6 ft	Original Depth:	6 ft
------------	------	-----------------	------

Map Key	Number of Records	Elevation m	Site	DB
Material Colour:	BROWN		Material:	CLAY
+				
Thickness:	12 ft		Original Depth:	18 ft
Material Colour:	BLUE		Material:	CLAY
+				
Thickness:	7 ft		Original Depth:	25 ft
Material Colour:	GREY		Material:	TILL, STONES
+				
Thickness:	23 ft		Original Depth:	48 ft
Material Colour:	GREY		Material:	SAND, GRAVEL, BOULDERS
+				
Thickness:	16 ft		Original Depth:	64 ft
Material Colour:	GREY		Material:	LIMESTONE, SHALE

40 **3 of 3** **92.7** **ON** [WWIS](#)

Well Id:	1521396	Lot:	021
Concession:	02	Concession Name:	
County:	OTTAWA-CARLETON	Municipality:	GLOUCESTER
Easting Nad83:	448714	Northing Nad83:	5014676
Zone:	18	Utm Reliability:	unknown UTM
Primary Water Use:	Not Used	Construction Date:	27-APR-87
Sec. Water Use:		Well Depth:	84 ft
Pump Rate:	83 GPM	Static Water Level:	7 ft
Flow Rate:		Clear/Cloudy:	CLEAR
Specific Capacity:		Final Well Status:	Test Hole
Construction Method:	Rotary (Convent.)	Flowing (y/n):	N
Elevation (m):	93.39	Elevation Reliability:	
Depth to Bedrock:	52	Overburden/Bedrock:	Bedrock
Water Type:	FRESH	Casing Material:	OPEN HOLE,STEEL

--- Details ---

Thickness:	8 ft	Original Depth:	8 ft
Material Colour:	BROWN	Material:	CLAY
+			
Thickness:	12 ft	Original Depth:	20 ft
Material Colour:	BLUE	Material:	CLAY
+			
Thickness:	5 ft	Original Depth:	25 ft
Material Colour:	GREY	Material:	TILL
+			
Thickness:	27 ft	Original Depth:	52 ft
Material Colour:	GREY	Material:	SAND, GRAVEL, BOULDERS
+			
Thickness:	32 ft	Original Depth:	84 ft
Material Colour:	GREY	Material:	LIMESTONE, SHALE

Unplottable Summary

DB	Company Name/Site Name	Address	City	Zip
CA		Part of Lot 18 and 19, Concession 1, Spratt Road	Gloucester ON	
CA	Claridge Point West	Part of Lot 18, Concession 2, Rideau Front	Ottawa ON	
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON	
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON	
CA	Appleton Subdivision	Part of Lot 21, Concession 2	Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	
CA	Urbandale Corporation		Ottawa ON	

CA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON
CA	Appleton Subdivision	Part of Lot 21, Concession 2	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA		Lot 20, Conc. 1 (Rideau Front), City of Gloucester	Ottawa ON
CA	Rideau Carleton Raceway Holdings Limited	Earl Armstrong Road, High Road, and Canyon Walk Drive	Ottawa ON
CA	Riverside Phase UA2-4	Red Spruce Street	Gloucester ON
CA	Riverside Phase UA2-4	Red Spruce Street	Gloucester ON
CA		Part of Lot 18 and 19, Concession 1, Spratt Road	Gloucester ON
GEN	ROBADAIR LTD.	BAY 6, 9 LIMEBANK ROAD - GLOUCESTER	OTTAWA ON
PTTW	Clublink Capital Corporation	Lot 18 through 21, Concession II	Ottawa ON

Unplottable Report

Site: **Part of Lot 18 and 19, Concession 1, Spratt Road Gloucester ON** **Database:** [CA](#)

Certificate #: 0122-4NFJF4
Application Year: 00
Issue Date: 8/22/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Construction of watermains on Spratt Road from Goldeneye Way to HallowTrail Gate.
Contaminants:
Emission Control:

Site: **Claridge Point West** **Database:** [CA](#)
Part of Lot 18, Concession 2, Rideau Front Ottawa ON

Certificate #: 6961-57WT5M
Application Year: 02
Issue Date: 3/8/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Claridge Homes Corporation
Client Address: 210 Gladstone Avenue
Client City: Ottawa
Client Postal Code:
Project Description: Construction of Watermains
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:** [CA](#)

Certificate #: 2227-4L9R22
Application Year: 00
Issue Date: 6/15/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Storm and Sanitary sewers to be constructed on Cirrus Way from Sandy Forest Place to Giant Cedars Crescent.
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON** **Database:**
[CA](#)

Certificate #: 5220-4L9R6L
Application Year: 00
Issue Date: 6/15/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Construction of Watermain on Cirrus Way from Sandy Forest Place to Giant Cedars Crescent.
Contaminants:
Emission Control:

Site: **Appleton Subdivision** **Database:**
Part of Lot 21, Concession 2 Ottawa ON [CA](#)

Certificate #: 9776-55UJ3V
Application Year: 02
Issue Date: 1/2/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: Construction of a Watermain
Contaminants:
Emission Control:

Site: **Urbandale Corporation** **Database:**
Ottawa ON [CA](#)

Certificate #: 1130-6BLHGE
Application Year: 2005
Issue Date: 4/21/2005
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: **Urbandale Corporation** **Database:**
Ottawa ON [CA](#)

Certificate #: 1712-6N6RR7
Application Year: 2006
Issue Date: 3/27/2006

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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 1830-6H3P2S
Application Year: 2005
Issue Date: 10/14/2005
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 2160-765JJX
Application Year: 2007
Issue Date: 8/16/2007
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 2869-6KVTJC
Application Year: 2006
Issue Date: 1/12/2006
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: **Minto Developments Inc.**
Lot 19, Concession 1 Ottawa ON

Database:
[CA](#)

Certificate #: 6111-5L8MWE
Application Year: 2003
Issue Date: 4/3/2003
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 6829-6Y7RQX
Application Year: 2007
Issue Date: 2/19/2007
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 8145-7TYK8L
Application Year: 2009
Issue Date: 7/17/2009
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: **Urbandale Corporation**
Part of Lot 20, Concession 1 Ottawa ON

Database:
[CA](#)

Certificate #: 6191-5PPQ63
Application Year: 2003
Issue Date: 7/25/2003
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 5942-6BWPUR
Application Year: 2005
Issue Date: 5/3/2005
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: **Urbandale Corporation**
Part of Lot 20, Concession 1 Ottawa ON

Database:
[CA](#)

Certificate #: 5155-667MFQ
Application Year: 2004
Issue Date: 11/1/2004
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 3681-7QWNXY
Application Year: 2009
Issue Date: 4/9/2009
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 2169-5WVM7Y
Application Year: 2004
Issue Date: 3/12/2004
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: **Urbandale Corporation**
Ottawa ON

Database:
[CA](#)

Certificate #: 1998-6Y7KJ9
Application Year: 2007
Issue Date: 2/12/2007
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: **Minto Developments Inc.**
Lot 19, Concession 1 Ottawa ON

Database:
[CA](#)

Certificate #: 1915-5L8Q54
Application Year: 2003
Issue Date: 5/7/2003
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: **Appleton Subdivision**
Part of Lot 21, Concession 2 Ottawa ON

Database:
CA

Certificate #: 7361-55UJ9V
Application Year: 02
Issue Date: 1/2/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: Construction of Storm and Sanitary Sewers
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON**

Database:
CA

Certificate #: 1056-4NANMY
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Construction of watermain on River Road, Shoeline Drive, Wildshore Crescent, Walkway Easement, Commercial Block, and Puffin Court.
Contaminants:
Emission Control:

Site: **Lot 20, Conc. 1 (Rideau Front), City of Gloucester Ottawa ON**

Database:
CA

Certificate #: 8618-4NANFM
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Amended CofA
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: Ottawa
Client Postal Code: K1G 2H5
Project Description: Construction of sanitary sewer on River Road from pumping station (approx. 1800 m north of Armstrong Road) to temporary entrance to Riverside South Community (approx. 750 m north of Armstrong Road), temporary Entrance Easement. Construction of storm and sanitary sewers on Shoreline Drive, Wildshore Crescent, Walkway Easement, Commercial Block, and Puffin Court
Contaminants:
Emission Control:

Site: **Rideau Carleton Raceway Holdings Limited**
Earl Armstrong Road, High Road, and Canyon Walk Drive Ottawa ON

Database:
CA

Certificate #: 8720-6HXK59
Application Year: 2005
Issue Date: 11/10/2005
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: **Riverside Phase UA2-4**
Red Spruce Street Gloucester ON

Database:
[CA](#)

Certificate #: 5275-4RCLW2
Application Year: 00
Issue Date: 11/24/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Storm and sanitary sewers to be constructed on Red Spruce Street.
Contaminants:
Emission Control:

Site: **Riverside Phase UA2-4**
Red Spruce Street Gloucester ON

Database:
[CA](#)

Certificate #: 5134-4RCLQV
Application Year: 00
Issue Date: 11/24/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Urbandale Corporation
Client Address: 2193 Arch Street
Client City: OTTAWA
Client Postal Code: K1G 2H5
Project Description: Watermain to be constructed on Red Spruce Street
Contaminants:
Emission Control:

Site: **Part of Lot 18 and 19, Concession 1, Spratt Road Gloucester ON**

Database:
[CA](#)

Certificate #: 0131-4NFJN4
Application Year: 00
Issue Date: 8/22/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street

Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Construction of sanitary and storm sewers on Spratt Road from Goldeneye Way to Hallow Trail Gate.
Contaminants:
Emission Control:

Site: **ROBADAIR LTD.**
BAY 6, 9 LIMEBANK ROAD - GLOUCESTER OTTAWA ON

Database:
GEN

SIC Code: 0007
SIC Description: LETTER ACKNOWLEDG.
Generator #: ON0528100
Approval Yrs: 86,87,88

Site: **Clublink Capital Corporation**
Lot 18 through 21, Concession II Ottawa ON

Database:
PTTW

Year: 2004
EBR Registry No.: IA04E1240
Ministry Ref. No.: ER-5527-5XLLTL
Type: Instrument Decision
Instrument Type: Permit to take water - OWRA s. 34
Proposal Date:
Location: Lot 18 through 21, Concession II, Ottawa (geographic Township of Cumberland)Cumberland
Proponent Address: 15675 Dufferin Street King City Ontario L7B 1K5

Appendix: Database Descriptions

*Ecolog Environmental Risk Information Services Ltd 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 Ecolog 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:

Sept 2002*

Provincial

[AAGR](#)

The MAAP Program maintains a database of all 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.*

Aggregate Inventory:

Up to Aug 2012

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.

Abandoned Mine Information System:

1800-Feb 2013

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.

Anderson's Waste Disposal Sites:

1860s-Present

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.

Automobile Wrecking & Supplies:

2001-Jun 2010

Private

[AUWR](#)

This database provides an inventory of all 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.

Borehole:

1875-Aug 2011

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.

Certificates of Approval:

1985-Oct 30, 2011*

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.

Commercial Fuel Oil Tanks:

1948-Apr 2013

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.

Chemical Register:

1992, 1999-Jun 2010

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.).

Inventory of Coal Gasification Plants and Coal Tar Sites:

Apr 1987 and Nov 1988*

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.*

Compliance and Convictions:

1989-Jun 2013

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.

Certificates of Property Use:

1994-Jul 2013

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.

Drill Hole Database:

1986-Jun 2013

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 MNM. 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".

Environmental Activity and Sector Registry:

Oct 31 2011-Dec 2013

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.

Environmental Registry:

1994-Jul 2013

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.

Environmental Compliance Approval:

Oct 31, 2011-Jul 2013

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 CofA's prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Environmental Effects Monitoring:

1992-2007*

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.

ERIS Historical Searches:

1999-Mar 2013

Private

[EHS](#)

EcoLog 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.

Environmental Issues Inventory System:

1992-2001*

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.

List of TSSA Expired Facilities:

Current to May 2013

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.

Federal Convictions:

1988-Jun 2007*

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.

Contaminated Sites on Federal Land:

June 2000-Jan 2013

Federal

[FCS](#)

The Federal Contaminated Sites Inventory includes information on all 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.

Fisheries & Oceans Fuel Tanks:

1964-Sept 2003

Federal

[FOFT](#)

Fisheries & Oceans Canada maintains an inventory of all 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.

Fuel Storage Tank:

2010-May 2013

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.

Fuel Storage Tank - Historic:

Pre-Jan 2010*

Provincial

[FSTH](#)

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.

Ontario Regulation 347 Waste Generators Summary:

1986-Jul 2013

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.

TSSA Historic Incidents:

2006-June 2009

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.

Indian & Northern Affairs Fuel Tanks:

1950-Aug 2003*

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of all 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.

TSSA Incidents:

June 2009-Apr 2013

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.

Landfill Inventory Management Ontario:

2012

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.

Canadian Mine Locations:

1998-2009

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.

Mineral Occurrences:

1846-Apr 2013

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 planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

National Analysis of Trends in Emergencies System (NATES):

1974-1994*

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.

Non-Compliance Reports:

1994-2011

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.

<u>National Defence & Canadian Forces Fuel Tanks:</u>	Up to May 2001*	Federal	NDFT
The Department of National Defence 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.			
<u>National Defence & Canadian Forces Spills:</u>	Mar 1999-Aug 2010	Federal	NDSP
The Department of National Defence 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.			
<u>National Defence & Canadian Forces Waste Disposal Sites:</u>	2001-Apr 2007*	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.			
<u>National Environmental Emergencies System (NEES):</u>	1974-2003*	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 all 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.			
<u>National PCB Inventory:</u>	1988-2008*	Federal	NPCB
Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all 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.			
<u>National Pollutant Release Inventory:</u>	1993-2011	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.			
<u>Oil and Gas Wells:</u>	1988-Jun 2013	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 .			

Ontario Oil and Gas Wells:

1800-Jul 2013

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, well cap date, licence 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.

Inventory of PCB Storage Sites:

1987-Oct 2004

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.

Orders:

1994-Jul 2013

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.

Canadian Pulp and Paper:1999, 2002, 2004, 2005,
2009

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.

Parks Canada Fuel Storage Tanks:

1920-Jan 2005*

Federal

[PCFT](#)

Canadian Heritage maintains an inventory of all 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.

Pesticide Register:

1988-Jun 2013

Provincial

[PES](#)

The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.

TSSA Pipeline Incidents:

June 2009-Mar 2012

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.

Private and Retail Fuel Storage Tanks:

1989-1996*

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).

Permit to Take Water:

1994-Jul 2013

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.

Ontario Regulation 347 Waste Receivers Summary: 1986-2011 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.

Record of Site Condition: 1997-Sept 2001, Oct 2004-Jun 2013 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).

Retail Fuel Storage Tanks: 1999-Jun 2010 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.

Scott's Manufacturing Directory: 1992-Mar 2011 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.

Ontario Spills: 1988-Jun 2013 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.

Wastewater Discharger Registration Database: 1990-2011 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).

Anderson's Storage Tanks: 1915-1953* 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.

Transport Canada Fuel Storage Tanks: 1970-Mar 2007 Federal [TCFT](#)
 With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

TSSA Variances for Abandonment of Underground

Current to Jun 2013

Provincial

[VAR](#)**Storage Tanks:**

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.

Waste Disposal Sites - MOE CA Inventory:

1970-Jul 2013

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.

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Up to Oct 1990*

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.

Water Well Information System:

1955-May 2013

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.

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.

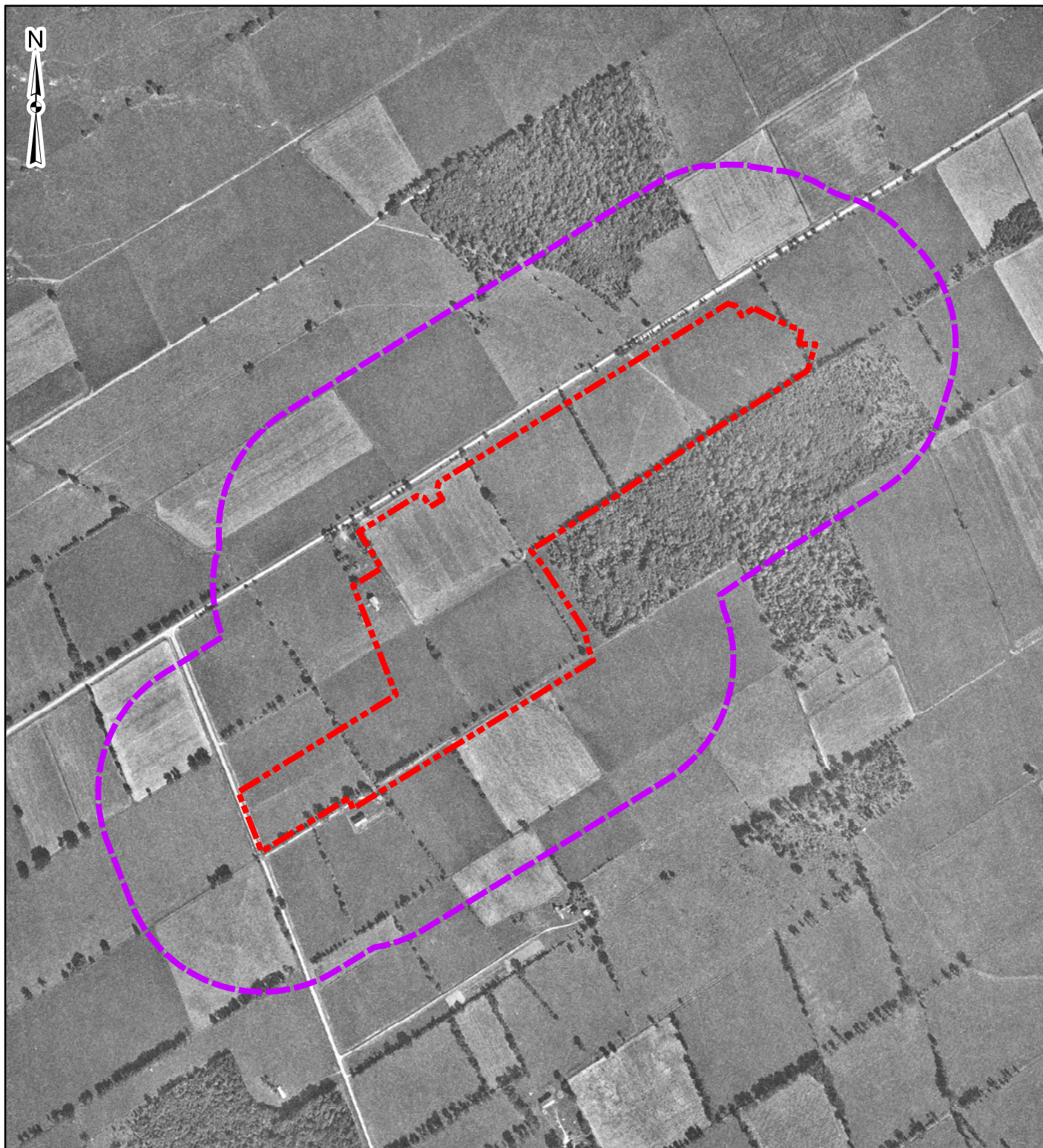
The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

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 were included as reference.





APPENDIX D

Aerial Photographs



LEGEND

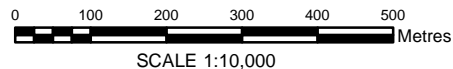
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO

TITLE
1962 AIR PHOTO





PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE D-1	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		

N:\Active\Spatial_1\MUbandale\4209\imebank_980EarlArmstrong\GIS\MXD\14-1122-0011\Phase2000_980EarlArmstrong\1411220011-2000-D2.mxd



LEGEND

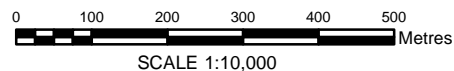
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9

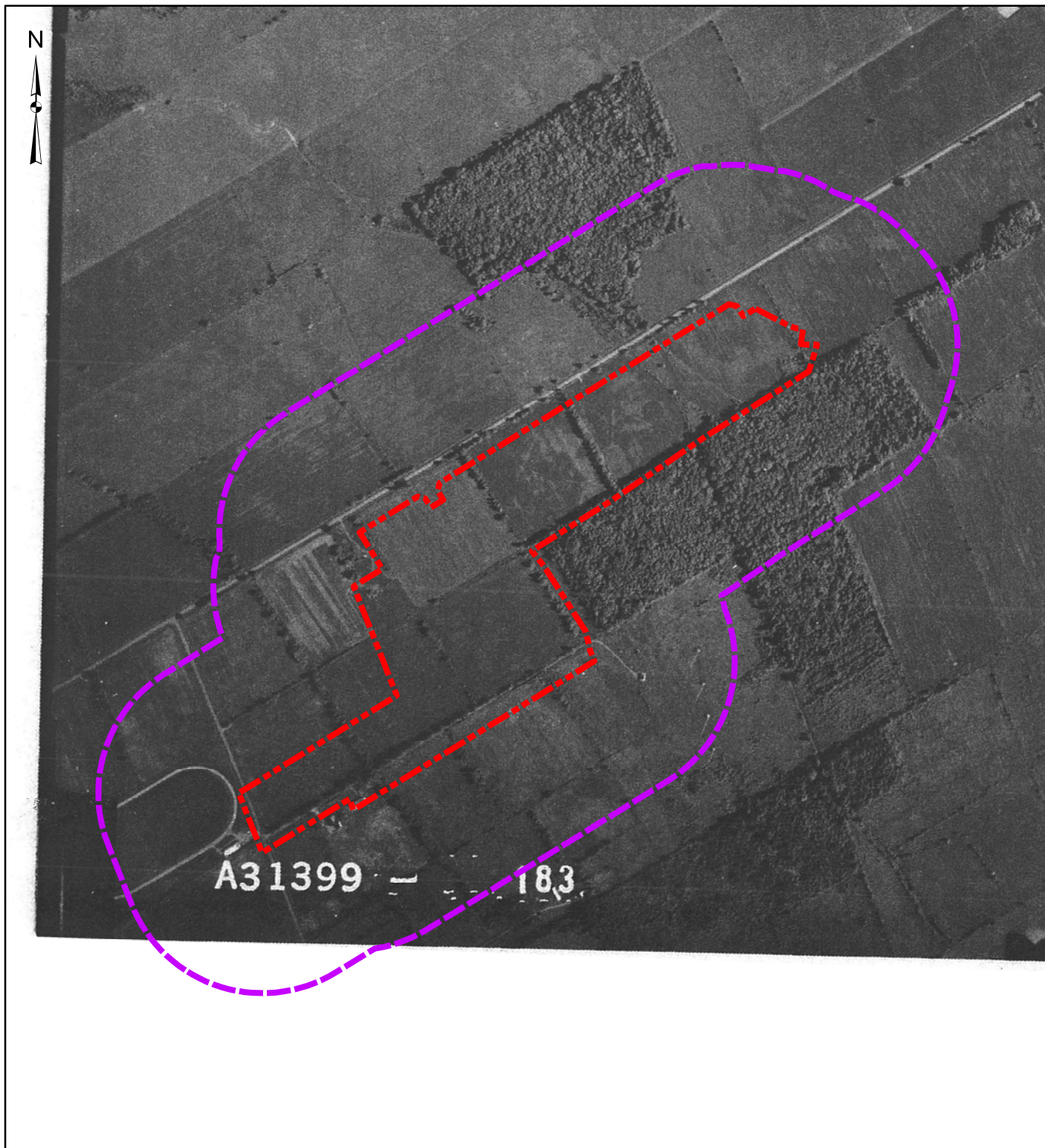


PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO



TITLE
1973 AIR PHOTO



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE D-2	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		



LEGEND

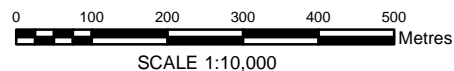
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



PROJECT
PHASE I ESA – RSDC PHASE 8 LANDS,
980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO



TITLE
1985 AIR PHOTO



PROJECT No. 14-1122-0011			SCALE AS SHOWN	REV. 0.0
DESIGN	TL	2014-01-28	FIGURE D-3	
GIS	JEM	2014-02-10		
CHECK	TL	2014-02-18		
REVIEW	DHP	2014-02-18		



LEGEND

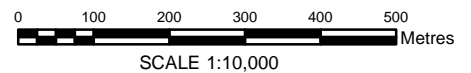
-  SITE BOUNDARY
-  PHASE I ESA STUDY AREA

NOTE

THIS FIGURE IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING
GOLDER ASSOCIATES LTD. REPORT No. 14-1122-0011/2000

REFERENCE

DATUM: NAD 83, COORDINATE SYSTEM: MTM ZONE 9



PROJECT		PHASE I ESA – RSDC PHASE 8 LANDS, 980 EARL ARMSTRONG ROAD, OTTAWA, ONTARIO				
TITLE		1994 AIR PHOTO				
 Golder Associates		PROJECT No. 14-1122-0011		SCALE AS SHOWN	REV. 0.0	
		DESIGN	TL	2014-01-28		FIGURE D-4
		GIS	JEM	2014-02-10		
		CHECK	TL	2014-02-18		
		REVIEW	DHP	2014-02-18		





APPENDIX E

Site Photographs



APPENDIX E

Site Photographs, 980 Earl Armstrong Road, Ottawa, Ontario



Photograph 1: View of the topsoil piles in the western part of Site, looking east from Spratt Road.



Photograph 2: View of the central part of the Site, looking south from Earl Armstrong Road.



APPENDIX E

Site Photographs, 980 Earl Armstrong Road, Ottawa, Ontario



Photograph 3: View of the eastern part of the Site, looking east.



Photograph 4: View of the northern section of the Site, along Earl Armstrong Road.



APPENDIX E

Site Photographs, 980 Earl Armstrong Road, Ottawa, Ontario



Photograph 5: View of the Urbandale offices and parking area to the west of the Site, looking northwest.



Photograph 6: View of the barn to the west of the Site, looking west.



APPENDIX E

Site Photographs, 980 Earl Armstrong Road, Ottawa, Ontario



Photograph 7: View of Earl Armstrong Road and the residential area to north of the Site, looking East.



Photograph 8: View of the fire hall immediately to the north of the Site.



APPENDIX E

Site Photographs, 980 Earl Armstrong Road, Ottawa, Ontario



Photograph 9: Picture from 2009 Phase I ESA, showing the typical land use for the Site.



Photograph 10: Picture from 2009 Phase I ESA showing the remaining residential/farm structure on the site, adjacent to the Fire Station on Earl Armstrong Road.

\\golder.gds\gal\Ottawa\Active\2014\1122 - CLG\14-1122-0011, RSDC, Ph. I ESAs two sites\Phase 2000 980 Earl Armstrong Road\Appendix E - Site Photographs; 14-1122-0011.doc

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