

**PHASE ONE ENVIRONMENTAL  
SITE ASSESSMENT REPORT**

**PROPOSED RESIDENTIAL DEVELOPMENT  
GRANITE RIDGE ESTATES SUBDIVISION PHASE 2  
PART LOTS 8 AND 9, CONCESSION 9  
TOWNSHIP OF GALWAY-CAVENDISH AND HARVEY  
PETERBOROUGH COUNTY  
PROJECT NO. G024361E1**

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## **PHASE ONE ENVIRONMENTAL SITE ASSESSMENT REPORT**

### **PROPOSED RESIDENTIAL DEVELOPMENT GRANITE RIDGE ESTATES SUBDIVISION PHASE 2 PART LOTS 8 AND 9, CONCESSION 9 TOWNSHIP OF GALWAY-CAVENDISH AND HARVEY PROJECT NO. G024361E1**

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#### **1.0 EXECUTIVE SUMMARY**

Geo-Logic Inc. (Geo-Logic) conducted a Phase One Environmental Site Assessment (ESA) of the property located on east side of Melody Bay Road and north of Adam and Eve Road in the Township of Galway-Cavendish and Harvey, Peterborough County, Ontario. The proposed residential development is 18.85 hectares in size and includes 32 lots, an internal road, open space and existing pond. The site is located in an area privately serviced for water and sewer. Based on information compiled, the property has not been previously developed.

The Phase One ESA has been prepared to provide Granite Ridge Estates with a professional opinion of the potential for materially significant environmental liabilities.

Observations made during the site reconnaissance inspection, surrounding property uses, information provided during the interview process and historical documentation were reviewed as part of the Phase One ESA. No areas of potential environmental concern (APECs) were identified either on the Property or on neighbouring lands given their usage. Based on our observations, the information collected and the present and proposed land use, it is our opinion that a Phase Two ESA investigation is not required. It is our professional opinion that the Property identified as Part Lots 8 and 9, Concession 9, Former Township of Harvey, Township of Galway-Cavendish and Harvey, Peterborough County, Ontario has a low level of concern from an environmental perspective and is suitable for its currently zoned usage based on this Phase One ESA report.

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## **2.0 INTRODUCTION**

### **2.1 PHASE ONE PROPERTY INFORMATION**

This report presents the results of a Phase One Environmental Site Assessment (ESA) that was completed for an existing vacant site (herein referred to as “the Property”) located on Melody Bay Road within the Township of Galway-Cavendish and Harvey, Ontario. The assessment was conducted to evaluate any potential environmental concerns at the request of Granite Ridge Estates represented by Mr. Jeff Chesher. The work was conducted in accordance with our email dated January 31, 2013 (Appendix A). It is the understanding of Geo-Logic that this report will be used for the submission of a Record of Site Condition.

The 18.85 hectare site is located on the east side of Melody Bay Road and north of Adam and Eve Road. Based on the Peterborough County web site, there is no 911 address assigned and is located in the former township of Harvey, Concession 9, Part Lot 8 and 9 that is now part of the Township of Galway-Cavendish and Harvey (recently re-named as the Municipality of Trent Lakes), Peterborough County. The lands are currently undeveloped and the general location is illustrated on the Vicinity Plan, Plate 1. The location of the site with respect to surrounding roads and watercourses is illustrated on the Property Plan, Plate 2. Specific details of the Property including surrounding features are provided on the Plot Plan, Plate 3. A Phase One Conceptual Site Plan is provided on Plate 4.

### **3.0 SCOPE OF INVESTIGATION**

The following scope of work was conducted to accomplish the Phase One ESA requirements in accordance with Ontario Regulation 153/04: Schedule D for Phase One Environmental Site Assessments under Part XV.1 of the Act within the *Environmental Protection Act* Act (as periodically amended including O. Reg. 511/09 and O. Reg. 269/11). The scope of work was completed to ensure that the Phase One elements (records review, interviews, site reconnaissance, review and evaluation and report preparation) were achieved:

1. Reviewed background information relating to past land use. Sources of information included aerial photography, the Historical Environmental Information Reporting System (HEIRS), the EcoLog Environmental Risk Information Service (ERIS) Standard report, Ministry of the Environment (MOE) and Technical Standards and Safety Authority (TSSA) files;
2. Conducted an inspection of the Property including a walkover of accessible areas and surrounding area and conducted an interview discussing the Property; and,
3. Evaluated the information obtained from the investigation and presented the findings in this written report with appropriate conclusions and recommendations.

#### **4.0 RECORDS REVIEW**

##### **4.1 GENERAL**

A historical records review was completed which included a request for and/or review of the following mandatory records review components:

- EcoLog ERIS report;
- Freedom of Information report from the MOE;
- Available aerial photography of the Property and surrounding area;
- Chain of Title search based on the legal description; and
- Available environmental and historical reports and surveys.

The findings of the records review are presented in the following sections.

##### **4.1.1 Phase One Study Area Determination**

The requirements for the Phase One Study, under O. Reg. 153/04, are to obtain and review records to evaluate potential environmental issues that may exist and to interpret any areas of potential environmental concern (APECs). As part of this investigation, sites located within 250 m of the Property boundary were assessed. No sites located greater than 250 m were identified that in our opinion should be included in the Phase One Study area. The findings are summarized in this section with supporting documentation provided in relevant sections.

The adjacent lands at the time of the site reconnaissance are described below:

**North:** Rural residential properties;

**South:** Adam and Eve Road, rural residential properties, Buckhorn Lake;

**East:** Adam and Eve Road, rural residential properties and,

**West:** Melody Bay Road, rural residential properties and a gravel pit.

A site-specific ERIS report was requested as an update to the 57 records documented in the 2011 Phase One ESA. The records found are discussed in further detail including the potential to pose an environmental risk in Section 4.2. The ERIS reports are included in Appendix B.

#### 4.1.2 First Developed Use Determination

The Property is undeveloped at this time. Historically, excavation and tree cutting activities have occurred on the lands. Based on aerial photographs, no activity appears to have occurred by 1929; however, areas appear to have been cleared by 1962.

#### 4.1.3 Fire Insurance Plans

No fire insurance plans were available.

#### 4.1.4 Chain of Title

The following information was available from documents at the land registry office. The information outlined in Table 1 presents lists owners dating back to the 1920s:

Table 1: Chain of Title

<b>Owner</b>	<b>Years of Ownership</b>
1447147 Ontario Inc.	2002 to present
Jeff and Gloria Chesher	1995 to 2002
Gloria Chesher; Noel Chesher	1987 to 1995
Stabler	1940s to 1987

\*Information obtained from information supplied by Land Registry office.

#### 4.1.5 Environmental Reports

There were two environmental reports available for review. Geo-Logic prepared a report entitled “Phase One Environmental Site Assessment Report, Proposed Residential Development, Granite Ridge Estates Subdivision”, dated September 2011”. No APECS were identified in this report. A second report entitled “Hydrogeologic Investigation Report, Proposed Residential Development”, by Geo-Logic Inc. dated November 2010 was available for review. The hydrogeologic investigation consisted of test pits, well pumping tests and water quality testing. The report indicated that there was sufficient water quantity of relatively good water quality to support the proposed development. Water testing did not indicate any adverse or environmentally impacted conditions. No environmental impacts were observed in the soil during the test pit program. Environmental issues are not expected based upon the completed ESA and hydrogeologic investigation.

No other environmental reports were available for review.

#### 4.2 ENVIRONMENTAL SOURCE INFORMATION

Inquires were made to obtain a number of documents regarding environmental information including information provided by maps, regulatory agencies (MOE, TSSA etc.), local agencies (municipal data, local library etc.) and environmental search information on file through HEIRS and ERIS. Results from the information requests are provided in Appendix B.

##### 4.2.1 Mapping

The location is presented on the National Topographic System Mapping from Energy, Mines and Resources Canada Map 31 D/9, Vicinity Plan, Plate 1. The location with respect to adjacent roadways and surrounding land uses is presented on Ontario Base Mapping Series (10 17 7050 49350 and 10 17 7100 49350, based on 1984 aerial photography and dated 1990) and is shown on the Property Plan, Plate 2. The surrounding features were observed to be a gravel pit to the west and residential homes to the north, south and east.

#### 4.2.2 Zoning

According to the Township of Galway-Cavendish and Harvey, the lands are zoned for Rural (Ru). The pit area to the southwest is zoned Extractive Industrial (EI). The zoning information is attached in Appendix B.

#### 4.2.3 Ministry of Environment

A request under the Freedom of Information and Protection of Privacy Act (FOIPPA) was made to the MOE regarding potential environmental issues. The MOE response letter dated August 18, 2011 indicated no records were found. It is Geo-Logic's opinion that an updated MOE letter is not required as spills, leaks, or other environmental concerns have not been documented or communicated to Geo-Logic regarding the Property. No changes have occurred since the previous Phase One ESA in 2011. No further investigation is warranted.

#### 4.2.4 Historical Environmental Information Reporting System

Risk Management Services (RMS) was contacted regarding possible background information using HEIRS. RMS indicated that no records were found including Fire Insurance Plans (FIPs), Property Underwriters' reports or Property Underwriters' plans. A copy of the HEIRS response letter and documentation is included in Appendix B.

#### 4.2.5 Technical Standards and Safety Authority

The TSSA was previously contacted. Mr. Prem Lal, Coordinator of Public Information Services; indicated there were no records of any outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities or underground storage tanks licensed or registered for the Property. No changes have occurred at the Property since the previous Phase One ESA in 2011. The TSSA letter is provided in Appendix B

#### 4.2.6 Land Registry Search

A title search performed at the Peterborough land Registry Office indicated that 1447147 Ontario Inc. is the current owner and have owned the lands since March 2002. No environmental issues are registered on title. A copy of the Land Registry document is included in Appendix B.

#### 4.2.7 EcoLog Environmental Risk Information System

A site-specific ERIS report was requested and provides a list of general environmental risks for the Property. This site-specific ERIS report compliments the original ERIS report from 2011 that documented general environmental risks within 2.0 km of the site with details provided for potential risks that are within 250 m. The ERIS reports are based on a number of databases including, but not limited to, the National PCB Inventory, National Pollutant Release Inventory, Occurrence Reporting Information System, Retail Fuel Storage Tanks, Private Fuel Storage Tanks, Waste Disposal Sites Inventory and Certificates of Approval. These records are discussed in further detail including the potential to pose an environmental risk to the Property. The ERIS information is provided in Appendix B.

The original ERIS report from 2011 documented fifty-seven (57) records reported within 250 m including 24 water well records for the Property. The site-specific ERIS report from 2013 documented 26 records for the site relating to Water Well Information reports. The following five (5) sub-sections provide a brief explanation of the records contained in the ERIS reports from 2011 and 2013.

**i) Environmental Registry (1994 – April 2011):** This 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, licence, or Certificate of Approval to release substances into the air or water; these are listed on the registry. Data includes approvals for discharge into the natural environment other than water (i.e. air); Permits to Take Water (PTTW); Certificates of Property Use (CPU); Approvals for a waste disposal site; orders for preventative measures (i.e. EPA s. 18); orders for conformity with Act for waste disposal sites (EPA s. 44); orders for remedial work (EPA s. 17) and many more.

For the two (2) records listed, both records are for the Buckhorn Sand and Gravel Pit located to the southwest. The records relate to permission to operate a waste disposal site for sewage lagoons. These lagoons are considered to be cross-gradient of the Property. No environmental impacts are expected at the Property based on records listed from this database.

**ii) Ontario Regulation 347 Waste Generators Summary (1986 – October 2010):** 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 years from 1986 including the most currently available data.

For the four (4) waste generator records reported, all records are for the Buckhorn Sand and Gravel Pit located to the southwest and cross-gradient. No environmental impacts are expected at the Property based on records listed from this database.

**iii) Scott's Manufacturing Directory (1992-March 2011):** This data bank contains information on over 70,000 manufacturers in Ontario. Even though Scott's listings are voluntary, it is the most comprehensive database of Ontario manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. This database begins with 1992 information and is updated annually. The directory provides information of the adjacent sand and gravel pit. No environmental impacts are expected at the Property based on the information listed in this directory.

**iv) Waste Disposal Sites - MOE CA Inventory (1970-June 2011):** An inventory maintained by the MOE Waste Management Branch is 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. For more current information for Waste Disposal Sites please see the EBR database, which will include information such as 'Approval for a waste disposal site (EPA s.27)' and 'Approval for use of a former waste disposal site (EPA s.46)'.

The record listed is for the Buckhorn Sand and Gravel Pit located to the southwest. The record relates to waste lagoons located on this site (these lagoons were also identified in the Environmental Registry records). These lagoons are considered to be cross-gradient. No environmental impacts are expected based on records listed from this database.

**v) Water Well Information System (1955 – May 2009):** The database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. The updated site-specific ERIS report listed twenty-six (26) wells for the Property. Three wells were recently installed and were observed during the site reconnaissance (noted as WWIS-1, WWIS-23 and WWIS-26). The records also indicate that 21 wells are located at one location. Twenty-one wells were not observed in close proximity of each other. These wells are likely plotted incorrectly and expected to relate to the residential dwellings that surround the site. As a cross-reference, the MOE Water Well Database was reviewed and indicated that three wells are located on the Property. The well records from these three wells indicated that sand and gravel ranging in depth from 0.9 to 7.3 m overlays granite bedrock in the area. The wells were drilled in 2010 and range in depth from 55 to 61 m in depth. One of the wells is an artesian well that is flowing at approximately 16 L/min. No environmental impacts are expected based on the water well information listed in the inventory.



### 4.3 PHYSICAL SETTING SOURCES

#### 4.3.1 Aerial Photographs

Digital aerial photographs were obtained for this report and reviewed from the National Air Photo Library for the years 1929, 1962, 1987, 1995 and 2012. The aerial photographs can be reviewed in Appendix C and do not indicate APECs.

Based on the aerial photograph for 1929 (scale of 1:20,000), the lands in this area are generally undeveloped and few roads exist. Settlement to the northeast is inferred to be the village of Buckhorn.

Based on the aerial photograph for 1962 (scale of 1:5,000), the Property appears to be undeveloped with a cleared area in the eastern section. There appears to be some agricultural lands to the northwest; however, the majority of the surrounding area is undeveloped.

The aerial photograph obtained for 1987 (1:50,000) indicates that the Property is cleared. A clearing can be observed to the southwest at the present day sand and gravel pit. There are additional lands used for agricultural purposes in the area however the area is predominantly undeveloped.

The aerial photograph from 1995 shows a pond in the southern area of the Property in the configuration observed during the recent site reconnaissance. The adjacent sand and gravel pit can be observed to the southwest. There appears to be a few homes or cottages present in this aerial photograph.

The 2012 aerial photograph presents the site as was observed during the site reconnaissance. There are additional cottages and homes in the area; however, the Property appears to be relatively unchanged since 1995 with a few more trails across the site. The sand and gravel pit to the southwest is clearly visible occupying the same footprint as in 1995 and is inferred to be cross-gradient of the Property. To the north, residential homes are present as well as along Adam and Eve Road and Melody Bay Road.

#### 4.3.2 Topography, Hydrology, Geology

**Topography:** The topography is hilly and the relief changes on the order of 10 to 15 m from north to south.

**Hydrology and Hydrogeology:** The Property is undeveloped with a pond in the south-central area that flows south via a small channel below Adam and Eve Road to Buckhorn Lake. Stormwater flows overland occur radially toward the pond. As noted during the site reconnaissance, the soil appeared to be of relatively good drainage. Some erosional channels were observed on the slopes draining toward the pond. Buckhorn Lake is located approximately 85 m to the south/southeast. The inferred groundwater flow direction is expected to flow toward Buckhorn Lake.

**Geology:** The area is situated within the regional physiographic region known as the Dummer Moraines and sits near the geologic boundaries of the Peterborough drumlin field and Georgian Bay fringe (Chapman and Putnam, 1984). Locally, the Property is located within till moraines (Chapman and Putnam, 1966). The moraines of this area are characterized by angular fragments and blocks of limestone with many Precambrian rocks also present.

The stratigraphy of the area is generally inferred to be a shallow layer of sand/gravel underlain by limestone and/or granite. The underlying bedrock is located upon a geology boundary comprising of Precambrian rock (early felsic plutonic rocks) and Middle Ordovician sedimentary limestone mostly of the Black River Group.

#### 4.3.3 Fill Materials

No fill materials were identified during the site reconnaissance. Some stockpiled soil material was identified during the site reconnaissance that appeared to be comprised of sand and gravel anticipated to be from the Property. The undeveloped nature of the land, in concurrence with historical documents and aerial photos, suggests the Property is devoid of fill materials. Therefore, no environmental impacts are expected related to fill materials.

#### 4.3.4 Water Bodies and Areas of Natural Significance

The property contains a pond in the south-central area. The nearest major water body is Buckhorn Lake approximately 85 metres away to the closest point within a narrow bay and about 200 m to the open area of the lake.

#### 4.3.5 Well Records

Three drilled wells were installed on the Property for the hydrogeologic investigation. The wells installed as part of the hydrogeologic investigation encountered sand and granite bedrock (Appendix B). No environmental issues were outlined in the hydrogeologic investigation regarding the drilled wells at the Property. The Site Specific ERIS Report identified twenty-six (26) wells on the Property, which were not observed during the site reconnaissance. The owner indicated that no additional wells other than the three (3) drilled wells exist. The other wells listed in the ERIS Report are either erroneous entries or may be related to the residential lots in the area. No APECs are identified based upon the well records.

#### 4.4 SITE OPERATING RECORDS

The Property is not considered an “enhanced investigation property”. In accordance with the regulation, the following were considered:

- i. *Regulatory permits and records related to areas of potential environmental concern:* There were no regulatory permits and/or records related to APECs.
- ii. *Material safety data sheets (MSDS):* MSDS sheets are not applicable.
- iii. *Underground utility drawings:* No utilities are located on the Property.
- iv. *Inventories of chemicals, chemical usage and chemical storage areas:* Not applicable as chemicals are not used at the Property.
- v. *Inventory of above ground storage tanks (AST) and underground storage tanks (UST):* There are no USTs or ASTs at this site.
- vi. *Environmental monitoring data, including data created in response to an order or request of the Ministry:* There are no orders or requests by the Ministry.

- vii. *Waste management records, including current and historical waste storage locations and waste generator and waste receiver information maintained pursuant to Regulation 347 of the Revised Regulations of Ontario, 1990 (General – Waste Management) made under the Act, or its predecessors:* Not applicable. This site is not a waste generator or waste receiving site.
- viii. *Process, production and maintenance documents related to areas of potential environmental concern:* Not applicable. The Property does not produce, process or maintain material that may be related to APECs.
- ix. *Records of spills and records of discharges of contaminants, including records of spills and records of discharges of contaminants of which notice is required to be given to the Ministry under the Act and records of such spills and discharges required to be kept pursuant to Ontario Regulation 675/98 (Classification and Exemption of Spills and Reporting of Discharges) made under the Act:* The owner was not aware of any spills at the Property. There were no records of spills or discharges.
- x. *Emergency response and contingency plans including spill prevention and contingency plans prepared pursuant to section 91.1 of the Act and Ontario Regulation 224/07 (Spill Prevention and Contingency Plans) made under the Act:* Emergency response and contingency plans are not applicable.
- xi. *Environmental audit reports:* There were no environmental audit reports.
- xii. *Site plan of facility showing areas of production and manufacturing:* This is not applicable as the Property is neither producing nor manufacturing any materials.

## **5.0 INTERVIEWS**

The original interview was conducted by Mr. Nyle McIlveen of Geo-Logic with the Property owner (Mr. Jeff Chesher). The owner indicated that his family has owned the Property for more than 30 years and he had the most knowledge or access to people with knowledge of the Property. Mr. Chesher indicated that there were three wells installed for the recent hydrogeologic investigation and test pits were also excavated with no environmental issues encountered. Mr. Chesher confirmed that there were no environmental impacts or releases on the property and no contaminating activities were associated with the Property. A summary of the interview can be reviewed in Appendix B.

A follow-up interview was conducted on February 21, 2013. Mr. Chesher indicated that sand and gravel was removed in approximately 1985 resulting in the formation of the pond. The pond is about 4.6 m deep. The roads were roughed in for the proposed subdivision several years ago. There have been no changes to the Property since the previous interview in 2011.

## **6.0 SITE RECONNAISSANCE**

### **6.1 GENERAL REQUIREMENTS**

In accordance with the Regulation, the following general requirements and information are provided. The investigation was conducted on February 5, 2013 by Mr. Robert Neck of Geo-Logic. Clear weather conditions were experienced during the visit and all areas were accessible. A summary of the The Phase One Environmental Site Assessment (ESA) Site Inspection Checklist and the Vacant Lot Summary can be reviewed in Appendix B. Photographs are provided in Appendix D. The assessor qualifications are provided in Appendix E.

### **6.2 SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY**

The following section provides a summary of the specific observations recorded by Geo-Logic. Additional details are provided in the field notes (see Appendix B for details). Access to the Property is from Adam and Eve Road located along the southern and eastern boundary and via Stablers Way from the north. Melody Bay Road abuts the western boundary.

The Property is located within an area that is privately serviced for water and septic and three water wells were observed. No vents or fill pipes were observed that might indicate the presence of USTs and no observations of fuel oil spills, leaks or staining were noted. No vegetative stress was observed and no evidence or observations of imported fill material or debris was observed across the Property. Some stockpiled soil material was identified during the site reconnaissance that appeared to be comprised of sand and gravel anticipated to be from the Property. Several piles of brush and grass clippings were also observed. The surficial soils were observed to be sand and gravel with a bedrock ridge in the northeast area.

#### **6.2.1 Enhanced Investigation Property**

This Property is not considered as a candidate for an enhanced investigation property as it did not operate as a garage, fuel depot or dry cleaning facility or as an industrial facility. There is no documented evidence to indicate that the Property historically operated as a garage, fuel depot or dry cleaning facility or as an industrial facility.

### 6.3 WRITTEN DESCRIPTION OF INVESTIGATION

The site reconnaissance included an inspection to confirm the current conditions and identify any current land uses which may have or may cause actual and/or potential environmental impacts to the Property. Adjoining and neighbouring properties were observed from the Property and from public access ways. Written descriptions of the investigation were presented in previous sections and the site inspection checklist included in Appendix B.

## 7.0 REVIEW AND EVALUATION OF INFORMATION

### 7.1 CURRENT AND PAST USES

In accordance with the Regulation, a table of current and past uses is required. Based on the information provided from the interview and research documents, the following table is provided:

Table 2: Current and Past Uses of Property

<b>Current Use and Past Use</b>	<b>Estimated Years of Use</b>
Subdivision roads roughed in. No other development has occurred.	1985 to present
Area of property used as a source of sand and gravel	~1985
Undeveloped	Prior to 1985

Notes: Dates and uses are estimated based on information obtained from interviews and research information.

### 7.2 POTENTIALLY CONTAMINATING ACTIVITY

The MOE provides a list of Potentially Contaminating Activities (PCA) in Schedule D of O. Reg. 153 (amended O. Reg. 511/09). No potentially contaminating activities were observed or reported for the Property or any surrounding areas. Site reconnaissance, records review, interview and review and evaluation of information has allowed for these interpretations.

### 7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

No APECs have been identified with respect to the Property through the site reconnaissance, records review, interview and review and evaluation of information as part of the Phase One ESA. This interpretation is based on current and historical uses of the Property in addition to operations on neighbouring properties.

### 7.4 PHASE ONE CONCEPTUAL SITE MODEL

The Phase One conceptual site model is provided as Plate 4 within the Enclosures section. The model provides a basic overview of the Property, basic geological and hydrogeological information and any other pertinent data that may affect the Phase One ESA. Local groundwater flow is inferred to flow towards Buckhorn Lake.

Groundwater is used as a potable source as nearby residential properties are serviced on wells and have septic systems. The overburden is sand and gravel over granitic bedrock. Exposed bedrock was observed at some locations on the Property and surrounding area. No utility services are identified on the Property.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

### 8.1 PHASE TWO ENVIRONMENTAL SITE ASSESSMENT REQUIRED

The Phase One Environmental Site Assessment investigation represents a "snapshot" in time. Geo-Logic cannot guarantee the reliability of information provided by others. However, whenever possible, verification of authenticity was attempted.

Based on the work documented above, no APECs were identified with respect to surrounding land uses within the Phase One Study area or the Property itself. Therefore, it is Geo-Logic's professional opinion that the completion of a Phase Two ESA is not required for the Property. Test pits, drilling and water well testing completed for the hydrogeological investigation were evaluated and assisted in formulating Geo-Logic's opinion that no APECs were identified during the hydrogeological investigation and during the completion of this Phase One ESA.

## 8.2 PHASE ONE ENVIRONMENTAL SITE ASSESSMENT ALONE

It is the understanding of Geo-Logic that this report will be used in support of the proposed residential development and the preparation of a Record of Site Condition. The results of the Phase One ESA did not identify any APECs or PCAs that would warrant the completion of a Phase Two ESA.

## 8.3 SIGNATURES

The following signatures are provided of Geo-Logic staff that prepared and conducted the Phase One ESA. The qualifications of the assessors are provided in Appendix E. Mr. Nyle McIlveen, the qualified person with respect to this project, has provided his opinion and confirms that the findings and conclusions in this document were completed in accordance with the Regulation 153/04 (as amended by O. Reg. 511/09, O. Reg. 245/10 and O. Reg. 179/11).

Following the References section of this report is the Statement of Limitations. These limitations are an integral part of this report. Should questions arise regarding any aspect of our report, please contact our office.

Sincerely yours,

Geo-Logic Inc.  
GEOTECHNICAL ENGINEERS  
AND HYDROGEOLOGISTS



Robert Neck, M.Eng.  
Project Manager



Nyle McIlveen, P.Eng.  
Senior Engineer

/jm/bn





## **9.0 REFERENCES**

- Canadian Standards Association (CSA) Z768-01, "Phase I Environmental Site Assessment", reaffirmed 2006.
- Chapman and Putnam, 1966. The Physiography of Southern Ontario, 2<sup>nd</sup> Edition. University of Toronto Press.
- Chapman and Putnam, 1984. The Physiography of Southern Ontario, 3<sup>rd</sup> Edition. Ministry of Natural Resources.
- Environmental Protection Act, R.S.O. 1990, and associated regulations.
- Geo-Logic Inc. September 2011. Phase One Environmental Site Assessment Report-Proposed Residential Development Granite Ridge Estates Subdivision Phase 2. Project Number G023134E2.
- Geo-Logic Inc. November 2010. Hydrogeologic Investigation Report, Proposed Residential Development Project No. G023134E1
- Ontario Department of Mines and Northern Affairs. Mapping. 1972.
- Occupational Health and Safety Act, R.S.O. 1990, and associated regulations.
- Ontario Ministry of the Environment, 2011. Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act (*Environmental Protection Act* 153/04, as amended).

### **STATEMENT OF LIMITATIONS**

This report is intended solely for Jeff Cheshier of Granite Ridge Estates in assessing the environmental concerns of the property identified as Part lot 8 and 9, Concession 9, Former township of Harvey, Township of Galway-Cavendish and Harvey in Peterborough County and is prohibited for use by others without Geo-Logic's prior written consent. This report is considered Geo-Logic's professional work product and shall remain the sole property of Geo-Logic. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to Geo-Logic. Client shall defend, indemnify and hold Geo-Logic harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The conclusions and recommendations made in this report are in accordance with our present understanding of the project, the current site use, surface and subsurface conditions, and are based on available information, a site reconnaissance on the date set out in the report, records review and interviews with appropriate people and the work scope approved by the Client and described in the report and should not be construed as a legal opinion. Therefore, our liability is limited to interpreting accurately the information made available to us and assessing the property information investigated during this Phase One ESA. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of environmental engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

If conditions at the Property change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

The conclusions in this report are based on available background documentation and discussions with appropriate people associated with the property. Therefore, our liability is limited to interpreting accurately the information made available to us and assessing the property information.

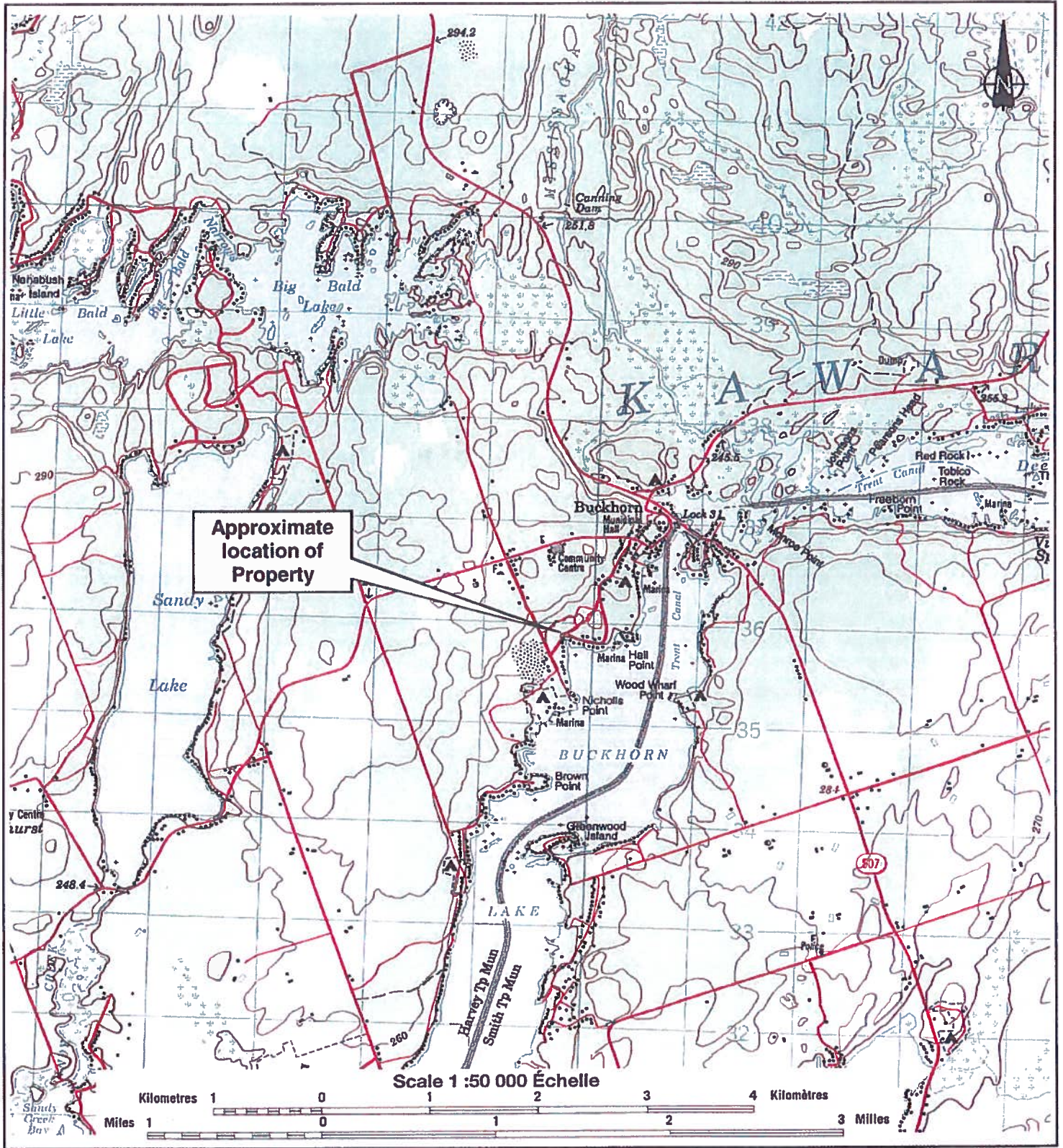
---

# **ENCLOSURES**

**GEO-LOGIC INC.**

---





# VICINITY PLAN

Phase One Environmental Site Assessment  
 Granite Ridge Estates  
 Township of Galway-Cavendish & Harvey

DATE: FEBRUARY 2013

SCALE: ~1 : 50000

JOB NUMBER: G024316E1

DRAWING NUMBER: PLATE 1



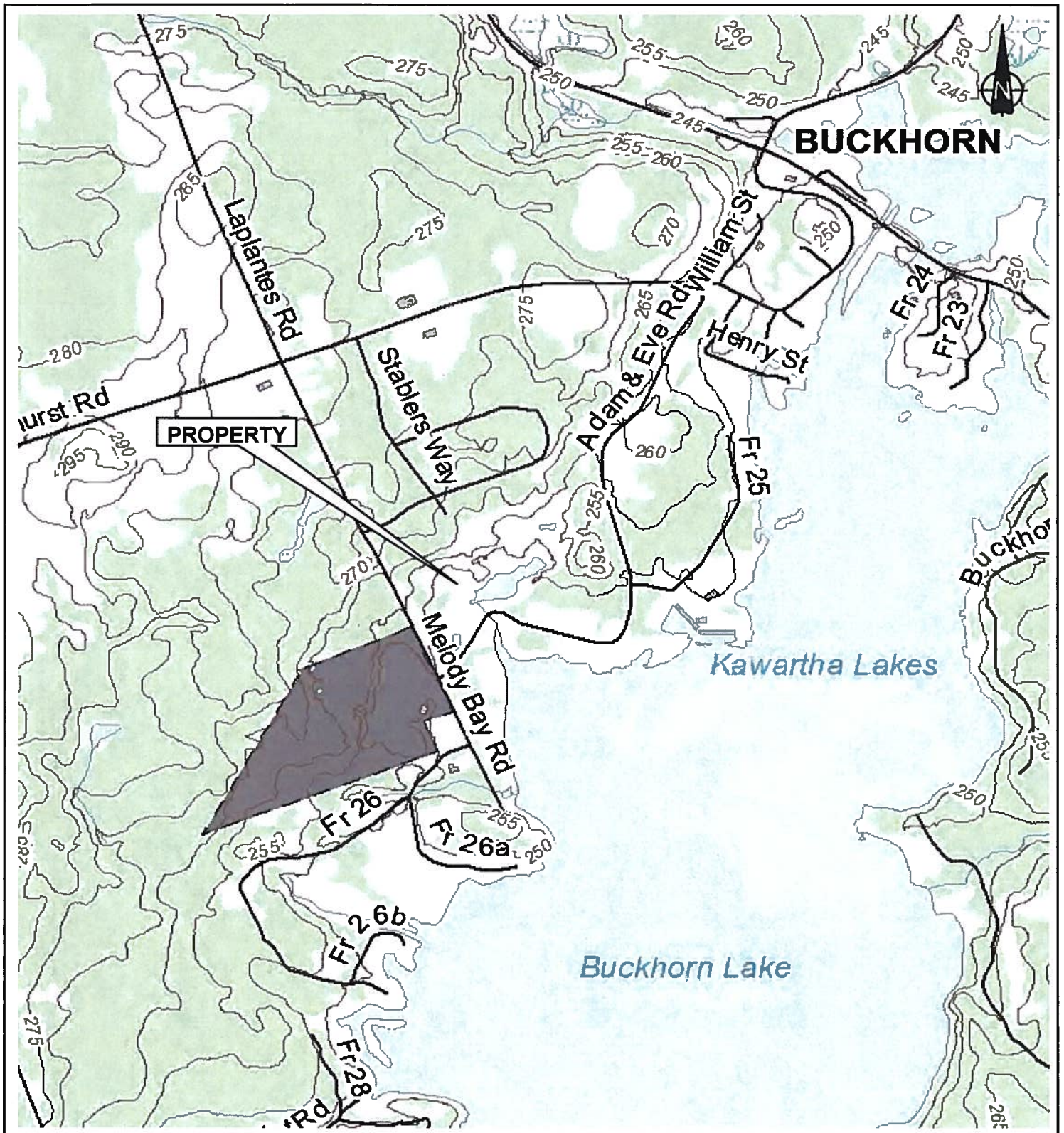
347 PIDO ROAD, UNIT 29

PETERBOROUGH, ON K9J 6X7

(705) 749-3317 FAX (705) 749-9248 www.geo-logic.ca

Base map compiled from Energy, Mines and Resources Canada Map 31 D/9 dated 1994 (aerial photography 1989).  
 Edition 5. UTM Zone 17.





# PROPERTY PLAN

Phase One Environmental Site Assessment  
 Granite Ridge Estates  
 Township of Galway-Cavendish & Harvey

DATE: FEBRUARY 2013

SCALE: ~1 : 10 000

JOB NUMBER: G024361E1

DRAWING NUMBER: PLATE 2

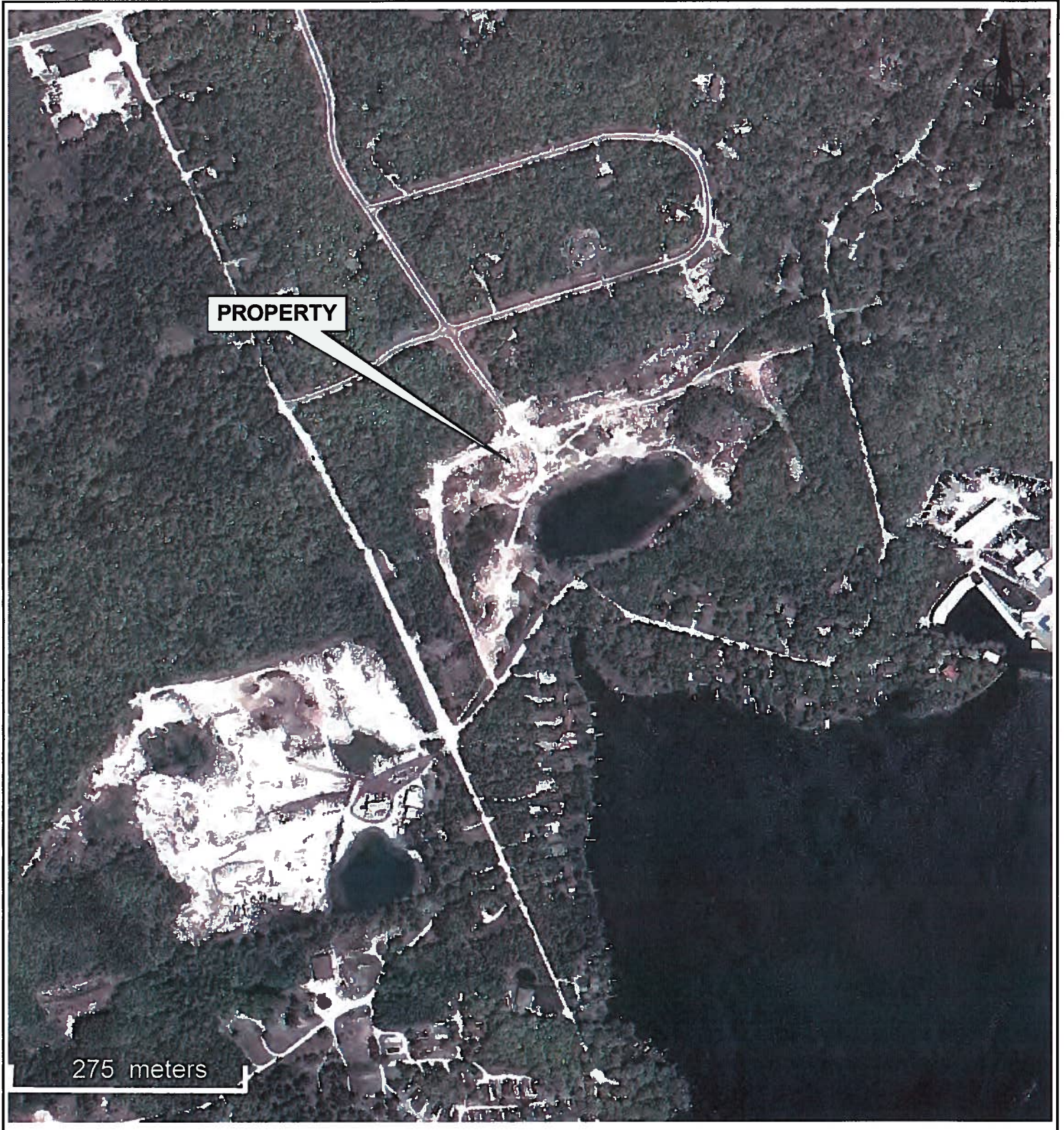


347 PIDO ROAD, UNIT 29

PETERBOROUGH, ON K9J 6X7

(705) 749-3317 FAX (705) 749-8248 www.geo-logic.ca





# PLOT PLAN

*Phase One Environmental Site Assessment  
Granite Ridge Estates  
Township of Galway-Cavendish & Harvey*

DATE: FEBRUARY 2013

SCALE: REFER TO SCALE BAR

JOB NUMBER: G024361E1

DRAWING NUMBER: PLATE 3



347 PIDO ROAD, UNIT 29

PETERBOROUGH, ON K9J 6X7

(705) 749-3317 FAX (705) 749-9248 [www.geo-logic.ca](http://www.geo-logic.ca)





# PHASE ONE CONCEPTUAL SITE MODEL

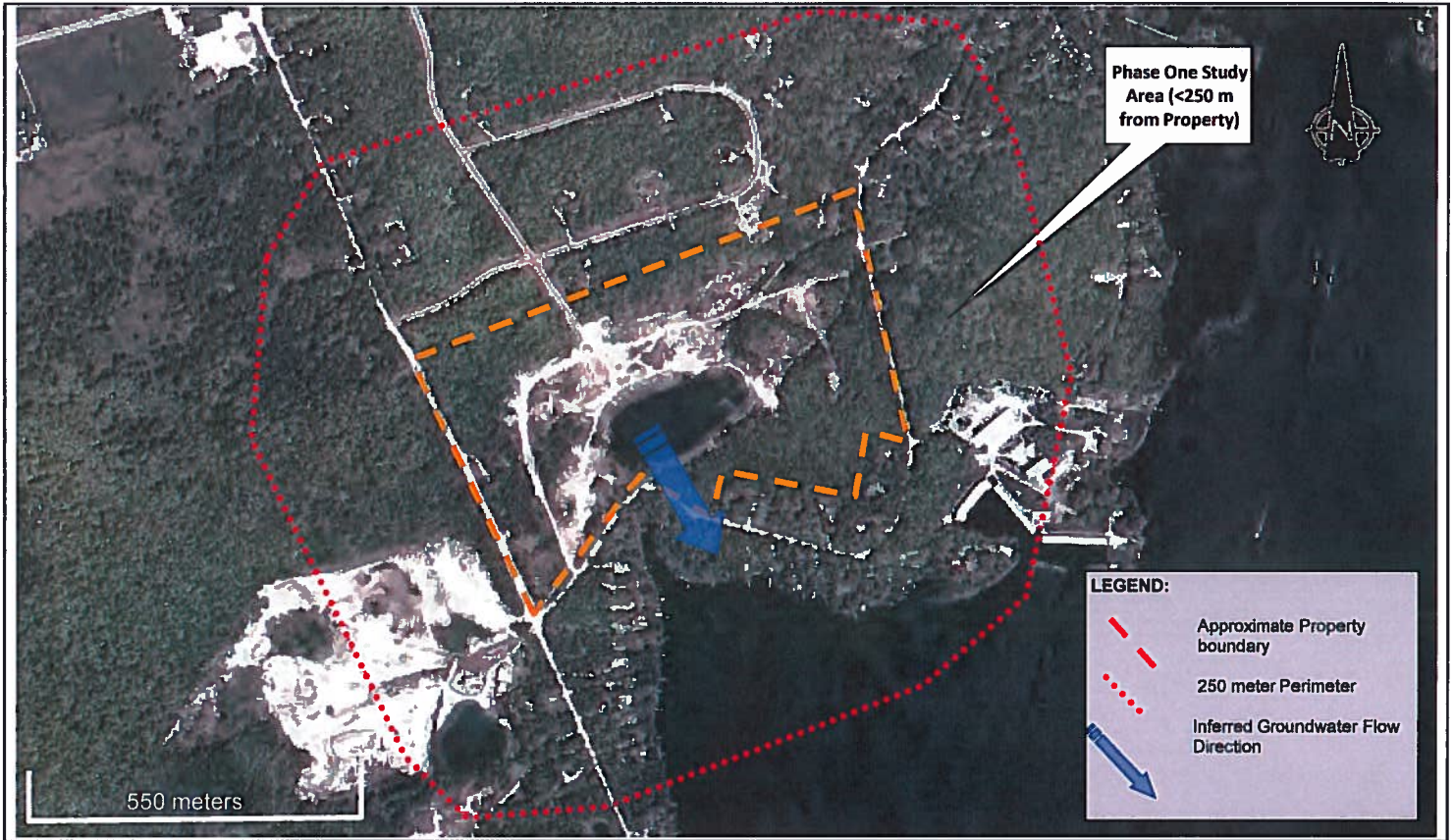
*Phase One Environmental Site Assessment  
Granite Ridge Estates  
Township of Galway-Cavendish & Harvey*

Plan compiled by Geo-Logic Inc site reconnaissance, records review, and interview Map from Google Image date May 19, 2012

DATE: FEBRUARY 2013
SCALE: REFER TO SCALE BAR
JOB NUMBER: G024361E1
DRAWING NUMBER: PLATE 4



347 PIDO ROAD, UNIT 29  
PETERBOROUGH, ON K9J 6X7  
(705) 749-3317 FAX (705) 749-9248 www.geo-logic.ca



# PHASE ONE CONCEPTUAL SITE MODEL

Phase One Environmental Site Assessment  
 Granite Ridge Estates  
 Township of Galway-Cavendish & Harvey

Plan compiled by Geo-Logic Inc. site reconnaissance, records review, and interview. Map from Google. Image date May 19, 2012.

DATE: FEBRUARY 2013
SCALE: REFER TO SCALE BAR
JOB NUMBER: G024361E1
DRAWING NUMBER: PLATE 4



347 PIDO ROAD, UNIT 29  
 PETERBOROUGH, ON K9J 6X7  
 (705) 749-3317 FAX (705) 749-9248 www.geo-logic.ca



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# **APPENDIX A**

## **PROPOSAL**

**GEO-LOGIC INC.**

---

**From:** [Trudy Paterson](#)  
**To:** [Neck, Robert \(Bob\)](#)  
**Cc:** [Buckhorn Sand & Gravel](#)  
**Subject:** Granite Ridge Estates Phase II P/N 2361  
**Date:** Thursday, January 31, 2013 4:08:23 PM

---

Hi Bob

I spoke to Jeff Chesher this afternoon regarding the update to the Phase 1 ESA and preparation of the Record of Site Condition for this project , which will cost \$3,000 to \$4,000.

He has authorized this work. Please proceed as soon as possible.

Trudy

Trudy Paterson, CET, MCIP, RPP | Senior Planner  
**Skelton, Brumwell & Associates Inc.**  
**Engineering Planning Environmental Consultants**  
93 Bell Farm Rd, Suite 107, Barrie, ON L4M 5G1  
Tel: 705-726-1141 ext 112 | Toll Free: 877-726-1141  
[tpaterson@skeltonbrumwell.ca](mailto:tpaterson@skeltonbrumwell.ca) | [www.skeltonbrumwell.ca](http://www.skeltonbrumwell.ca)

***"Adding Value to Your Enterprise"***

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## **APPENDIX B**

**PHASE ONE ESA CHECKLIST;  
TSSA RESPONSE LETTER;  
INTERVIEW SUMMARY;  
MOE WELL RECORDS;  
LAND REGISTRY INFORMATION;  
HEIRS SEARCH INFORMATION; AND  
ERIS REPORT.**



**PHASE I ENVIRONMENTAL ASSESSMENT**

**VACANT LOT VISIT  
QUESTIONNAIRE**

PROJECT NO.: G024361E1 INSPECTOR: JAMES MCEACHERN  
 CLIENT: JEFF CHESHER C/O SKELTON BRUMWELL PROJECT MANAGER: BOB NECK  
 INSPECTION DATE: FEBRUARY 5 2013  
 LOCATION: MELODY BAY ROAD GUIDE DURING THE INSPECTION: (CONTACT DETAILS)  
PART LOTS 8 AND 9 CON 9  
GALWAY-CAVENDISH AND HARVEY TITLE: \_\_\_\_\_  
 IN FUNCTION SINCE: \_\_\_\_\_

LOT NUMBER:	Part Lot 8 and 9
CONCESSION:	Con 9
LOWER/UPPER TIER MUNICIPALITY:	Township of Galway-Cavendish and Harvey, Peterborough County

**0.0 HEALTH AND SAFETY PROCEDURE AND/OR SPECIFICALLY REQUIRED EQUIPMENT?**

0.1 Details: Na

0.2 Equipment: Na

**1.0 SITE DESCRIPTION**

1.1 Vacant Lot  No  Yes

1.2 Presence of Removable Structure  No  Yes \_\_\_\_\_

**1.3 Characteristics**

Evidence of Fill Only from lot

Ditches Beside roads

Vegetation Hardwood forest

Debris Tree cuttings

Slope South towards pond and ultimately towards Buckhorn Lake



**1.4 Soil Usage**

- Storage
- Uncultivated
- Other: \_\_\_\_\_
- Wooded
- Parking Lot

**1.5 Total Area of Site**      ~19 hectares

**Percentage (approximate) of the Surface:**

- Asphalted      0
- Parking Lot      0
- Access Road      10%
- Gravel, Dirt      30%
- Grassed (landscaping)      0
- Uncultivated      0
- Wooded      40%
- Other (storage area)      Former wooded area levelled 20%

**1.6 Surface Drainage**

- Catch Basins
- Ditches

Number: \_\_\_\_\_ Number and Direction: Towards the south and east

Ground Level with regards to Adjacent Areas: \_\_\_\_\_

Slope towards (if applicable): To pond and towards Buckhorn Lake

**1.7 Physical Evidence of Exterior Contamination:**  No  Yes (explain below)

- Stains on the Ground: No
- Floating Phase on the Surface of the Water/Ditch: No
- Stunted, Deteriorated Vegetation: No
- Odours: No
- Other: No



## 2.0 DESCRIPTION OF NEIGHBOURING AREA

The property is bordered by (main roads):

North: Stabler

East: Adam and Eve

South: Adam and Eve

West: Melody Bay Road

## ADJACENT NEIGHBOURING AREA

Direction	Type of Activity (Company Name)	Civic Address
North	Residential	
West	Wooded and Gravel Pit (Buckhorn S&G)	754 Melody Bay Road
South	Residential	
East	Residential	

### Presence of a Functional or Abandoned Well:

Not visible

If yes, describe: Wells as part of hydrogeologic assessment

### Characteristics and Comments (500-m radius):

Property mostly surrounded by residential. Gravel pit cross-gradient to the southwest.



**3.0 HISTORY**

Historical use of the lot:  Vacant  Wooded  Cultivated  Uncultivated  Other

Remarks:  
Cleared area. Possible wood lot and possible extraction of sand and gravel materials.

**PREVIOUS OCCUPANTS OR USAGE OF THE PROPERTY**

Name	Type of Activity	Year
Buckhorn S&G Jeff Chesher	Vacant	90s - present
Buckhorn S&G Noel Chesher	Vacant	Late 80s
Stabler	Vacant	40s-80s



#### 4.0 SITE INSPECTION

##### 4.1 Description

Removable Structure:  No  Yes \_\_\_\_\_

##### 4.2 Tanks

a) Were there tanks that have since been removed from the site?

No  Yes

If yes: – Removal date: \_\_\_\_\_

– Contractor who carried out the work: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

– Environmental studies  No  Yes, by: \_\_\_\_\_

b) Abandoned tanks still present on site:

No  Yes  More than two years

Which? \_\_\_\_\_

c) Are there still tanks on the site?

No  Yes

Which? \_\_\_\_\_

d) Potable water source

Municipal services or  Well

e) Presence of a functional or abandoned well:

Not visible

If yes, describe and indicate the location: Three test wells onsite

\_\_\_\_\_

\_\_\_\_\_





**4.3 Description of the Activities on the Property**

Type of Activities: Roads roughed in and ground levelling for proposed subdivision

Remarks:

**4.4 Hazardous Materials**

f) Are there any hazardous materials stored and/or used on the site?

No: If no, proceed to Point 4.5.

Yes: If yes, explain below:

Location						
Hazardous materials: Categories	Type	Stored Amount	Type	Stored Amount	Type	Stored Amount
Gas (freon, halon, propane, etc.)						
Used Oils						
Solvents						
Acids or Bases						
PCB						
Other						
Remarks:						



**4.5 Solid and Household Wastes - Debris**

g) The household wastes are collected by which company?

NA

**Inventory of the Debris:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

h) Are there any tenants who produce non-toxic liquid waste?

No  Yes

**4.6 Physical Evidence of Contamination**

a) Stains on the ground: No Evidence of contamination

b) Flow of liquid (hydrocarbons or hazardous materials)

Sporadic  Regular

**Presence of a catch basin or of a ditch nearby:**

Source:

Storage of barrels of \_\_\_\_\_

Tanks

Machinery

Other \_\_\_\_\_

**Type of Contaminated Materials:**

Oil

Solvent

Other: \_\_\_\_\_

Presence of Absorbant:  No  Yes: \_\_\_\_\_

Remarks:



c) Have there been any governmental or citizen complaints concerning the emission of pollutants from the property?

No    Yes

If yes: Nature of the complaint: \_\_\_\_\_

\_\_\_\_\_

#### 4.7 Liquid Effluent

a) Are wastewaters discharged on the property?

No

Yes: If yes, explain below:

Municipal Sewers

Retaining Basin

Septic Tank

Surface Water

Remarks:



**INTERVIEW SUMMARY**

Client : Jeff Chesher c/o Skelton Brumwell Project No : G024361E1  
 Project / Site : Melody Bay Road, Buckhorn ON – Phase One ESA

Interview Date : February 21, 2013 Carried out by : Robert Neck  
 Type of Interview : By telephone : Yes In Person : \_\_\_\_\_  
 Location : \_\_\_\_\_

Name of Interlocutor	Title	Firm
Jeff Chesher	Owner	Buckhorn Sand and Gravel

Interview Summary : Ownership in the family since approximately 1984 (~30 years)  
He recalled that originally the site was a large hill of gravel that was removed for use  
In approximately 1985, the gravel was removed and the pond was created as a result.  
Approximately 15 feet depth  
Site has 3 drilled wells that were drilled in 2010 for the hydrogeological study  
Not aware of the site as a woodlot  
No ASTs or USTs at the site  
Not aware of any contaminating activities associated with the property. There are no known regulatory orders, notices or liens or environmental spills or documentation of environmental releases associated with the property.  
No fill materials were used at the Property. Currently the site is inactive and undeveloped with roads roughed in for proposed subdivision  
There are no known environmental concerns regarding historical or current activities associated with the neighbouring properties.

Transmitted Document (s): \_\_\_\_\_

Prepared by : Robert Neck Project Manager : Robert Neck  
 Date : February 21, 2013



# Canada's Primary Environmental Risk Information Service

**Project Site:** Granite Ridge Estates  
Adam And Eve Rd Melody Bay Rd  
Galway Cavendish And Harvey, ON

**Client:** James Mceachern  
Geo-Logic Inc.  
347 Pido Road, Unit 29  
Peterborough, ON K9J6X7

**ERIS Project No:** 20130204028

**Report Type:** Custom Report - .25km Search Radius

**Prepared By:** Shermin Haider  
[shaider@eris.ca](mailto:shaider@eris.ca)

**Date:** February 05, 2013

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## Table of Contents

Order Number: 20130204028  
Site Name: Granite Ridge Estates  
Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey, ON  
Report Type: Custom Report, 0.25 km Search Radius

	<u>Section</u>
<b>Report Summary</b> <i>This outlines the number of records from each database that fall on the site, and within various distances from the site.</i>	i
<b>Site Diagram</b> <i>The records that were found within a specified distance from the project property (the primary search radius) have been plotted on a diagram to provide you with a visual representation of the information available. Sites will be plotted on the diagram if there is sufficient information from the database source to determine accurate geographic coordinates. Each plotted site is marked with an acronym identifying the database in which the record was found (i.e., WDS for Waste Disposal Sites). These are referred to as "Map Keys". A variety of problems are inherent when attempting to associate various government or private source records with locations. EcoLog ERIS has attempted to make the best fit possible between the available data and their positions on the site diagram.</i>	ii
<b>Site Profile</b> <i>This table describes the records that relate directly to the property that is being researched.</i>	iii
<b>Detail Report</b> <i>This section represents information, by database, for the records found within the primary search radius. Listed at the end of each database are the sites that could not be plotted on the locator diagram because of insufficient address information. These records will not have map keys. They have been included because they may be found to be relevant during a more detailed investigation.</i>	iv
<b>Water Well Information System</b>	<u>Page</u> 1
<b>Appendix: Database Descriptions</b>	

## Report Summary

Order Number: 20130204028  
 Site Name: Granite Ridge Estates  
 Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey,  
 Report Type: Custom Report, 0.25 km Search Radius

### Number of Mappable Records Surrounding the Site

Database	Selected	On-site	Within 0.25	0.25km to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
COAL	Coal Gasification Plants	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Information 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 Storage Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defence & Canadian Forces Fuel Storage 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
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

## Report Summary

Order Number: 20130204028  
 Site Name: Granite Ridge Estates  
 Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey,  
 Report Type: Custom Report, 0.25 km Search Radius

Database	Selected	On-site	Within 0.25	0.25km to 0.25km	Total	
ORD	Orders	Y	0	0	0	
PAP	Canadian Pulp and Paper	Y	0	0	0	
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0	
PES	Pesticide Register	Y	0	0	0	
PINC	TSSA Pipeline Incidents	Y	0	0	0	
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0	
PTTW	Permit to Take Water	Y	0	0	0	
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0	
RSC	Record of Site Condition	Y	0	0	0	
RST	Retail Fuel Storage Tanks	Y	0	0	0	
SCT	Scott's Manufacturing Directory	Y	0	0	0	
SPL	Ontario Spills	Y	0	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	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	26	26	0	26
TOTAL			26	26	0	26

The databases chosen by the client as per the submitted order form are denoted in the 'Selected' column in the above table. Counts have been provided outside the primary buffer area for cursory examination only. These records have not been examined or verified, therefore, they are subject to change.





Pinpointing Your Environmental Risks

80 Valleybrook Dr. Toronto, ON M3B 2S9  
416-510-5204

Project Property: Granite Ridge Estates  
Adam And Eve Rd Melody Bay Rd  
Galway Cavendish And Harvey, ON

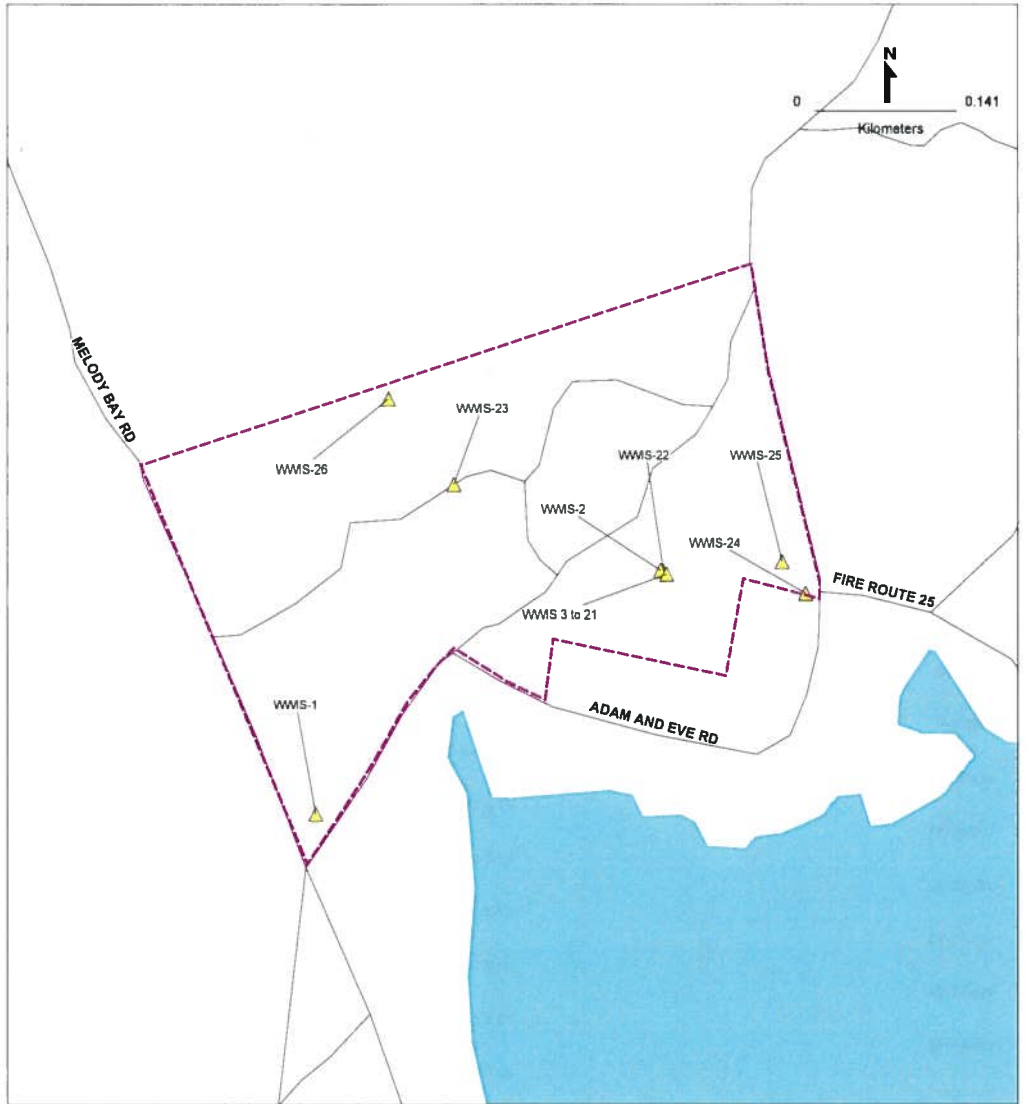
ERIS Project #: 20130204028

Date: FEB-05-2013

**LEGEND**

	<b>Project Property</b>		<b>Landuse Classifications</b>
	<b>Database Location</b>		Open Area
	<b>Points of Interest</b>		Residential
	Chimney		Commercial
	Site		Resource and Industrial
	<b>Pipe &amp; Transmission Lines</b>		Government and Institutional
	Pipeline		Parks and Recreational
	Transmission Line		Waterbody
	Transmission Tower		<b>Recreation</b>
	Transformer Station		Golf Course/Driving Range
	<b>Rail</b>		Park/Sports Field
	Railway - Main		Other Recreation Area
	Railway - Sidetrack		Sports/Race Track
	Railway - Abandoned		Cemetery
	Bridge		Campground
	Tunnel		<b>Vegetation</b>
	Embankment		Wooded Area
	Trail		Orchard
	Runway		Vineyard
	<b>Hydrographic Features</b>		<b>Industrial Resources</b>
	Permanent Waterway		Conveyor
	Intermittent Waterway		Crane Moveable
	Open Reservoir		Crane Stationary
	Dyke/Levee		Tank
	Dam		Rock Cut
	Breakwall		Auto Wrecker
	Wetland		Lumber Yard
			Pit

**SITE DIAGRAM**



This diagram is to be used solely for relative street location purposes  
It may not accurately portray street or site positions.

Section II

## Site Report

Order Number: 20130204028  
Site Name: Granite Ridge Estates  
Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey,  
Report Type: Custom Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

### Water Well Information System

Map Key	Company Name	Address	City	Postal Code
WWIS-1		lot 8 con 9		
WWIS-2		lot 8 con 9		
WWIS-3		lot 8 con 9		
WWIS-4		lot 8 con 9		
WWIS-5		lot 8 con 9		
WWIS-6		lot 8 con 9		
WWIS-7		lot 8 con 9		
WWIS-8		lot 8 con 9		
WWIS-9		lot 8 con 9		
WWIS-10		lot 8 con 9		
WWIS-11		lot 8 con 9		
WWIS-12		lot 8 con 9		
WWIS-13		lot 8 con 9		
WWIS-14		lot 8 con 9		
WWIS-15		lot 8 con 9		

## Site Report

Order Number: 20130204028  
Site Name: Granite Ridge Estates  
Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey,  
Report Type: Custom Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

Map Key	Company Name	Address	City	Postal Code
WWIS-16		lot 8 con 9		
WWIS-17		lot 8 con 9		
WWIS-18		lot 8 con 9		
WWIS-19		lot 8 con 9		
WWIS-20		lot 8 con 9		
WWIS-21		lot 8 con 9		
WWIS-22		lot 8 con 9		
WWIS-23		lot 8 con 9		
WWIS-24		lot 8 con 18	BUCKHORN	
WWIS-25		lot 8 con 9		
WWIS-26		lot 8 con 9		

## Detail Report

Order Number: 20130204028

Site Name: Granite Ridge Estates

Site Address: Adam And Eve Rd Melody Bay Rd Galway Cavendish And Harvey C

Report Type: Custom Report, 0.25 km Search Radius

**If information is required for sites located beyond the selected address, please contact your ERIS representative.**

Water Well Information System

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-1		lot 8 con 9	7146826	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 709616                      Northing Nad83: 4935734                      Zone: 17                      Utm Reliability: margin of error: 10 - 30 m                      Construction Date: 4/28/2010                      Primary Water Use: Domestic                      Secondary Water Use: Test Hole                      Well Depth: 200 ft                      Pump Rate: 15 GPM                      Static Water Level: 6.4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Convent.)                      Flowing (y/n):                      Elevation (m): 247.281051                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type: FRESH                      Casing Material: STEEL OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>19 ft</td> <td>19 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, PACKED</td> </tr> <tr> <td>5 ft</td> <td>24 ft</td> <td>BROWN</td> <td>SAND, BOULDERS, PACKED</td> </tr> <tr> <td>176 ft</td> <td>200 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	19 ft	19 ft	BROWN	SAND, GRAVEL, PACKED	5 ft	24 ft	BROWN	SAND, BOULDERS, PACKED	176 ft	200 ft	BLACK	GRANITE
Thickness	Original Depth	Material Colour	Material																					
19 ft	19 ft	BROWN	SAND, GRAVEL, PACKED																					
5 ft	24 ft	BROWN	SAND, BOULDERS, PACKED																					
176 ft	200 ft	BLACK	GRANITE																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-2		lot 8 con 9	5118467	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709950.4                      Northing Nad83: 4935985                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 6/16/2000                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 40 ft                      Pump Rate: 50 GPM                      Static Water Level: 12 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.830902                      Elevation Reliability:                      Depth to Bedrock: 24                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>24 ft</td> <td>24 ft</td> <td>BROWN</td> <td>GRAVEL, LOOSE, PACKED</td> </tr> <tr> <td>16 ft</td> <td>40 ft</td> <td>BLACK</td> <td>GRANITE, SOFT</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	24 ft	24 ft	BROWN	GRAVEL, LOOSE, PACKED	16 ft	40 ft	BLACK	GRANITE, SOFT
Thickness	Original Depth	Material Colour	Material																	
24 ft	24 ft	BROWN	GRAVEL, LOOSE, PACKED																	
16 ft	40 ft	BLACK	GRANITE, SOFT																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-3		lot 8 con 9	5117950	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 7/17/1998                      Primary Water Use:                      Secondary Water Use:                      Well Depth: 501 ft                      Pump Rate:                      Static Water Level:                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status:                      Construction Method: Not Known                      Flowing (y/n):                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 277                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>277 ft</td> <td>277 ft</td> <td></td> <td>PREV. DRILLED</td> </tr> <tr> <td>48 ft</td> <td>325 ft</td> <td>GREY</td> <td>GRANITE</td> </tr> <tr> <td>2 ft</td> <td>327 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> <tr> <td>43 ft</td> <td>370 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> <tr> <td>9 ft</td> <td>379 ft</td> <td>GREY</td> <td>GRANITE</td> </tr> <tr> <td>99 ft</td> <td>478 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> <tr> <td>23 ft</td> <td>501 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	277 ft	277 ft		PREV. DRILLED	48 ft	325 ft	GREY	GRANITE	2 ft	327 ft	BLACK	GRANITE	43 ft	370 ft	BLACK	GRANITE	9 ft	379 ft	GREY	GRANITE	99 ft	478 ft	BLACK	GRANITE	23 ft	501 ft	BLACK	GRANITE
Thickness	Original Depth	Material Colour	Material																																					
277 ft	277 ft		PREV. DRILLED																																					
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43 ft	370 ft	BLACK	GRANITE																																					
9 ft	379 ft	GREY	GRANITE																																					
99 ft	478 ft	BLACK	GRANITE																																					
23 ft	501 ft	BLACK	GRANITE																																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-4		lot 8 con 9	5117880	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 6/15/1998 Primary Water Use: Domestic Secondary Water Use: Well Depth: 277 ft Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 8 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			1 ft	1 ft	BROWN	TOPSOIL, SOFT		
			7 ft	8 ft	BROWN	SAND, STONES, SOFT		
			92 ft	100 ft	BLACK	GRANITE, HARD		
			15 ft	115 ft	RED	GRANITE, HARD		
			85 ft	200 ft	BLACK	GRANITE, HARD		
			25 ft	225 ft	RED	GRANITE, HARD		
			52 ft	277 ft	BLACK	GRANITE, HARD		



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-5		lot 8 con 9	5117528	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 7/29/1997 Primary Water Use: Not Used Secondary Water Use: Well Depth: 66 ft Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Abandoned-Other Construction Method: Other Method Flowing (y/n): Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material:					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			66 ft	66 ft				PREVIOUSLY DUG

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-6		lot 8 con 9	5117056	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 9/29/1995 Primary Water Use: Domestic Secondary Water Use: Well Depth: 127 ft Pump Rate: 20 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): 251.72821 Elevation Reliability: Depth to Bedrock: 19 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: OPEN HOLE, STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			4 ft	4 ft	BLACK	TOPSOIL, SOFT		
			15 ft	19 ft	BROWN	SAND, GRAVEL, SOFT		
			1 ft	20 ft	RED	GRANITE, HARD		
			15 ft	35 ft	BLACK	GRANITE, HARD		
			92 ft	127 ft	RED	GRANITE, HARD		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-7		lot 8 con 9	5115374	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 6/17/1991 Primary Water Use: Domestic Secondary Water Use: Well Depth: 25 ft Pump Rate: 10 GPM Static Water Level: 6 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			8 ft	8 ft	BROWN	SAND		
			17 ft	25 ft	RED	GRAVEL		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-8		lot 8 con 9	5115338	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/12/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 50 ft                      Pump Rate: 30 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 2                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>2 ft</td> <td>2 ft</td> <td>BLACK</td> <td>TOPSOIL, FILL, SOFT</td> </tr> <tr> <td>3 ft</td> <td>5 ft</td> <td>RED</td> <td>GRANITE, CLAY, LOOSE</td> </tr> <tr> <td>2 ft</td> <td>7 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>27 ft</td> <td>34 ft</td> <td>RED</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>10 ft</td> <td>44 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>4 ft</td> <td>48 ft</td> <td>RED</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>2 ft</td> <td>50 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	2 ft	2 ft	BLACK	TOPSOIL, FILL, SOFT	3 ft	5 ft	RED	GRANITE, CLAY, LOOSE	2 ft	7 ft	BLACK	GRANITE, QUARTZ, HARD	27 ft	34 ft	RED	GRANITE, QUARTZ, HARD	10 ft	44 ft	BLACK	GRANITE, QUARTZ, HARD	4 ft	48 ft	RED	GRANITE, QUARTZ, HARD	2 ft	50 ft	BLACK	GRANITE, QUARTZ, HARD
Thickness	Original Depth	Material Colour	Material																																					
2 ft	2 ft	BLACK	TOPSOIL, FILL, SOFT																																					
3 ft	5 ft	RED	GRANITE, CLAY, LOOSE																																					
2 ft	7 ft	BLACK	GRANITE, QUARTZ, HARD																																					
27 ft	34 ft	RED	GRANITE, QUARTZ, HARD																																					
10 ft	44 ft	BLACK	GRANITE, QUARTZ, HARD																																					
4 ft	48 ft	RED	GRANITE, QUARTZ, HARD																																					
2 ft	50 ft	BLACK	GRANITE, QUARTZ, HARD																																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-9		lot 8 con 9	5111373	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 4/15/1985                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 60 ft                      Pump Rate: 20 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): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 8                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>8 ft</td> <td>8 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, LOOSE</td> </tr> <tr> <td>52 ft</td> <td>60 ft</td> <td>BROWN</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	8 ft	8 ft	BROWN	SAND, GRAVEL, LOOSE	52 ft	60 ft	BROWN	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																	
8 ft	8 ft	BROWN	SAND, GRAVEL, LOOSE																	
52 ft	60 ft	BROWN	GRANITE, HARD																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-10		lot 8 con 9	5111847	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 7/7/1986 Primary Water Use: Domestic Secondary Water Use: Well Depth: 270 ft Pump Rate: 1 GPM Static Water Level: 65 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 4 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			4 ft	4 ft		BROWN	TOPSOIL, MEDIUM-GRAINED	
			126 ft	130 ft		RED	GRANITE, HARD	
			50 ft	160 ft		GREY	GRANITE, HARD	
			90 ft	270 ft		RED	GRANITE, HARD	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-11		lot 8 con 9	5111849	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																				
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 7/3/1986                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 288 ft                      Pump Rate: 1 GPM                      Static Water Level: 65 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>TOPSOIL, MEDIUM-GRAINED</td> </tr> <tr> <td>146 ft</td> <td>150 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>40 ft</td> <td>190 ft</td> <td>GREY</td> <td>GRANITE, HARD</td> </tr> <tr> <td>98 ft</td> <td>288 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	TOPSOIL, MEDIUM-GRAINED	146 ft	150 ft	RED	GRANITE, HARD	40 ft	190 ft	GREY	GRANITE, HARD	98 ft	288 ft	RED	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																									
4 ft	4 ft	BROWN	TOPSOIL, MEDIUM-GRAINED																									
146 ft	150 ft	RED	GRANITE, HARD																									
40 ft	190 ft	GREY	GRANITE, HARD																									
98 ft	288 ft	RED	GRANITE, HARD																									

Provincial Source Database

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-12		lot 8 con 9	5112072	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 10/24/1986 Primary Water Use: Domestic Secondary Water Use: Well Depth: 87 ft Pump Rate: 50 GPM Static Water Level: 10 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 4 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			4 ft	4 ft		BROWN	SAND, STONES, HARD	
			83 ft	87 ft		RED	GRANITE, HARD	



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																								
WWIS-13		lot 8 con 9	5112239	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																								
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 2/25/1987                      Primary Water Use:                      Secondary Water Use:                      Well Depth: 523 ft                      Pump Rate:                      Static Water Level:                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status:                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type:                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>SAND, MEDIUM-GRAINED</td> </tr> <tr> <td>256 ft</td> <td>260 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>95 ft</td> <td>355 ft</td> <td>BLACK</td> <td>GRANITE, HARD</td> </tr> <tr> <td>135 ft</td> <td>490 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>33 ft</td> <td>523 ft</td> <td>GREY</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	SAND, MEDIUM-GRAINED	256 ft	260 ft	RED	GRANITE, HARD	95 ft	355 ft	BLACK	GRANITE, HARD	135 ft	490 ft	RED	GRANITE, HARD	33 ft	523 ft	GREY	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																													
4 ft	4 ft	BROWN	SAND, MEDIUM-GRAINED																													
256 ft	260 ft	RED	GRANITE, HARD																													
95 ft	355 ft	BLACK	GRANITE, HARD																													
135 ft	490 ft	RED	GRANITE, HARD																													
33 ft	523 ft	GREY	GRANITE, HARD																													

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-14		lot 8 con 9	5112580	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/14/1987                      Primary Water Use:                      Secondary Water Use:                      Well Depth: 200 ft                      Pump Rate: 0 GPM                      Static Water Level: 0 ft                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Abandoned-Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 2                      Overburden/Bedrock: Bedrock                      Water Type:                      Casing Material:                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>2 ft</td> <td>2 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>18 ft</td> <td>20 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>30 ft</td> <td>50 ft</td> <td>RED</td> <td>GRANITE, QUARTZ</td> </tr> <tr> <td>65 ft</td> <td>115 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>30 ft</td> <td>145 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> <tr> <td>35 ft</td> <td>180 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>20 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, QUARTZ</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	2 ft	2 ft	BROWN	SAND	18 ft	20 ft	RED	GRANITE	30 ft	50 ft	RED	GRANITE, QUARTZ	65 ft	115 ft	RED	GRANITE	30 ft	145 ft	BLACK	GRANITE	35 ft	180 ft	RED	GRANITE	20 ft	200 ft	RED	GRANITE, QUARTZ
Thickness	Original Depth	Material Colour	Material																																					
2 ft	2 ft	BROWN	SAND																																					
18 ft	20 ft	RED	GRANITE																																					
30 ft	50 ft	RED	GRANITE, QUARTZ																																					
65 ft	115 ft	RED	GRANITE																																					
30 ft	145 ft	BLACK	GRANITE																																					
35 ft	180 ft	RED	GRANITE																																					
20 ft	200 ft	RED	GRANITE, QUARTZ																																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-15		lot 8 con 9	5113610	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 12/14/1988                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 63 ft                      Pump Rate: 20 GPM                      Static Water Level: 10 ft                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 7                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>7 ft</td> <td>7 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>56 ft</td> <td>63 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	7 ft	7 ft	BROWN	SAND	56 ft	63 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
7 ft	7 ft	BROWN	SAND																	
56 ft	63 ft	RED	GRANITE																	

Provincial Source Database

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-16		lot 8 con 9	5114606	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 10/5/1989 Primary Water Use: Domestic Secondary Water Use: Well Depth: 300 ft Pump Rate: 0 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): 251.72821 Elevation Reliability: Depth to Bedrock: 12 Overburden/Bedrock: Bedrock Water Type: Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			12 ft	12 ft	BROWN	SAND, BOULDERS, LOOSE		
			288 ft	300 ft	RED	GRANITE		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-17		lot 8 con 9	5114607	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/26/1989                      Primary Water Use: Not Used                      Secondary Water Use:                      Well Depth: 280 ft                      Pump Rate:                      Static Water Level:                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Observation Wells                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type:                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>276 ft</td> <td>280 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	SAND	276 ft	280 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
4 ft	4 ft	BROWN	SAND																	
276 ft	280 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-18		lot 8 con 9	5114692	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 5/26/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 44 ft                      Pump Rate: 10 GPM                      Static Water Level: 2 ft                      Flow Rate:                      Clear/Cloudy: CLOUDY                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 25                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>25 ft</td> <td>25 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>19 ft</td> <td>44 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	25 ft	25 ft	BROWN	SAND	19 ft	44 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
25 ft	25 ft	BROWN	SAND																	
19 ft	44 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-19		lot 8 con 9	5114693	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 5/24/1990 Primary Water Use: Domestic Secondary Water Use: Well Depth: 65 ft Pump Rate: 10 GPM Static Water Level: 4 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 18 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			18 ft	18 ft	BROWN	SAND, GRAVEL		
			47 ft	65 ft	RED	GRANITE		



Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-20		lot 8 con 9	5114694	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 5/24/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 60 ft                      Pump Rate: 10 GPM                      Static Water Level: 2 ft                      Flow Rate:                      Clear/Cloudy: CLOUDY                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 15                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>15 ft</td> <td>15 ft</td> <td>BROWN</td> <td>SAND, GRAVEL</td> </tr> <tr> <td>45 ft</td> <td>60 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	15 ft	15 ft	BROWN	SAND, GRAVEL	45 ft	60 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
15 ft	15 ft	BROWN	SAND, GRAVEL																	
45 ft	60 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-21		lot 8 con 9	5114695	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 5/25/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 45 ft                      Pump Rate: 10 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 12                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>12 ft</td> <td>12 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>33 ft</td> <td>45 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	12 ft	12 ft	BROWN	SAND	33 ft	45 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
12 ft	12 ft	BROWN	SAND																	
33 ft	45 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-22		lot 8 con 9	5118436	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709953 4 Northing Nad83: 4935985 Zone: 17 Utm Reliability: unknown UTM Construction Date: 8/18/1999 Primary Water Use: Domestic Secondary Water Use: Well Depth: 35 ft Pump Rate: 50 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): 251.863494 Elevation Reliability: Depth to Bedrock: 31 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: OPEN HOLE, STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			31 ft	31 ft				SAND, CLAY
			4 ft	35 ft		RED		GRANITE

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-23		lot 8 con 9	7146824	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709743                      Northing Nad83: 4936063                      Zone: 17                      Utm Reliability: margin of error: 10 - 30 m                      Construction Date: 4/23/2010                      Primary Water Use: Domestic                      Secondary Water Use: Test Hole                      Well Depth: 180 ft                      Pump Rate: 15 GPM                      Static Water Level:                      Flow Rate: 3.5 GPM                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): Y                      Elevation (m): 249.958328                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type:                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>3 ft</td> <td>3 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, LOOSE</td> </tr> <tr> <td>177 ft</td> <td>180 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	3 ft	3 ft	BROWN	SAND, GRAVEL, LOOSE	177 ft	180 ft	RED	GRANITE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																	
3 ft	3 ft	BROWN	SAND, GRAVEL, LOOSE																	
177 ft	180 ft	RED	GRANITE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-24		lot 8 con 18 BUCKHORN	7121580	008	18	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 710095 Northing Nad83: 4935967 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 7/15/2008 Primary Water Use: Domestic Secondary Water Use: Well Depth: 45 ft Pump Rate: 10 GPM Static Water Level: 2 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): Elevation (m): 250.219299 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			1 ft	1 ft	BROWN	TOPSOIL		
			27 ft	28 ft	BROWN	SAND, CLAY		
			2 ft	30 ft		GRAVEL		
			15 ft	45 ft	RED	GRANITE, ROCK		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-25		lot 8 con 9	5101634	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 710070.9                      Northing Nad83: 4935998                      Zone: 17                      Utm Reliability: margin of error : 100 m - 300 m                      Construction Date: 4/9/1959                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 29 ft                      Pump Rate: 7 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 252.429962                      Elevation Reliability:                      Depth to Bedrock: 15                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: OPEN HOLE, STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1 ft</td> <td>1 ft</td> <td></td> <td>TOPSOIL</td> </tr> <tr> <td>14 ft</td> <td>15 ft</td> <td>BROWN</td> <td>CLAY, MEDIUM SAND</td> </tr> <tr> <td>14 ft</td> <td>29 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	1 ft	1 ft		TOPSOIL	14 ft	15 ft	BROWN	CLAY, MEDIUM SAND	14 ft	29 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																					
1 ft	1 ft		TOPSOIL																					
14 ft	15 ft	BROWN	CLAY, MEDIUM SAND																					
14 ft	29 ft	RED	GRANITE																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-26		lot 8 con 9	7146825	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
Easting Nad83: 709675 Northing Nad83: 4936145 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 5/27/2010 Primary Water Use: Domestic Secondary Water Use: Test Hole Well Depth: 200 ft Pump Rate: 15 GPM Static Water Level: 9 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): Elevation (m): 257.816864 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: Casing Material: STEEL, OPEN HOLE																				
<table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>16 ft</td> <td>16 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, LOOSE</td> </tr> <tr> <td>184 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	16 ft	16 ft	BROWN	SAND, GRAVEL, LOOSE	184 ft	200 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
16 ft	16 ft	BROWN	SAND, GRAVEL, LOOSE																	
184 ft	200 ft	RED	GRANITE																	



## Appendix: Ontario 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 descriptions for more information.

### Provincial Government Source Databases:

#### **Abandoned Aggregate Inventory Up to Sept 2002** **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 Jun 2011** **AGR**

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. Please note that the database is only referenced by lot/concession and city/town location. The database provides information regarding the registered owner/operator, location, status, licence type, and maximum tonnage.

#### **Abandoned Mines Information System 1800-Jan 2012** **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.

#### **Borehole 1875-Aug 2011** **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\*** **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.

**TSSA Commercial Fuel Oil Tanks 1948-Aug 2011**

**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.

**Inventory of Coal Gasification Plants and Coal Tar Sites April 1987 and November 1988\***

**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 1989-2012**

**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 1994-2012**

**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 Holes 1886-Oct 2011**

**DRL**

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

**Environmental Activity and Sector Registry Oct 31, 2011-2012**

**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 1994-2012**

**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, 2011-2012**

**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.

**List of TSSA Expired Facilities Current to Feb 2012**

**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.

**TSSA Fuel Storage Tanks Current to Jun 2011**

**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.

**Ontario Regulation 347 Waste Generators Summary 1986-Apr 2012**

**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**

**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.

**TSSA Incidents June 2009-Mar 2012**

**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 2010**

**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.

**Mineral Occurrences 1846-Nov 2011**

**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.

**Non-Compliance Reports 1992(water only), 1994-2010**

**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.

**Ontario Oil and Gas Wells 1800-Feb 2012**

**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.

**Ontario Inventory of PCB Storage Sites 1987-Oct 2004**

**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 1994-2012**

**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.

**Pesticide Register 1988-Mar 2011**

**PES**

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

**TSSA Pipeline Incidents June 2009-Mar 2012**

**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\***

**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 1994-2012**

**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 1986-2009**

**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 2004-2012**

**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).

**Ontario Spills 1988-2011**

**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**

**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).



**TSSA Variances for Abandonment of Underground Storage Tanks Current to October 2011** VAR

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

**Waste Disposal Sites - MOE CA Inventory 1970-2012** 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\*** 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 1955-2011** 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.

**Federal Government Source Databases:** Diagram Identifier:

**Environmental Effects Monitoring 1992-2007\*** 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.

**Environmental Issues Inventory System 1992-2001\*** 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.

**Federal Convictions 1988-Jun 2007** 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-Sept 2012**

**FCS**

The Treasury Board of Canada Secretariat maintains an inventory of all known contaminated sites held by various Federal departments and agencies. This inventory does not include properties owned by Crown corporations, but does contain non-federal sites for which the Government of Canada has accepted some or all financial responsibility. All sites have been classified through a system developed by the Canadian Council of Ministers of the Environment. The database provides information on company name, location, site ID #, property use, classification, current status, contaminant type and plan of action for site remediation.

**Fisheries & Oceans Fuel Tanks 1964-Sept 2003**

**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.

**Indian & Northern Affairs Fuel Tanks 1950-Aug 2003**

**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.

**National Analysis of Trends in Emergencies System (NATES) 1974-1994\***

**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.

**National Defence & Canadian Forces Fuel Tanks Up to May 2001\***

**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.

**National Defence & Canadian Forces Spills Mar 1999-Aug 2010**

**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.

**National Defence & Canadian Forces Waste Disposal Sites 2001-April 2007**

**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.



**National Environmental Emergencies System (NEES) 1974-2003**

**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.

**National PCB Inventory 1988-2008**

**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.

**National Pollutant Release Inventory 1993-2010**

**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.

**Parks Canada Fuel Storage Tanks 1920-Jan 2005**

**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.

**Transport Canada Fuel Storage Tanks 1970-March 2007**

**TCFT**

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. This inventory will also include The Pickering Lands, which refers to the 7,530 hectares (18,600 acres) of land in Pickering, Markham and Uxbridge - owned by the Government of Canada since 1972. Properties on this land has been leased by the government since 1975, falls under the Site Management Policy of Transport Canada, but administered by Public Works and Government Services Canada. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

**Private Source Databases:**

**Anderson's Waste Disposal Sites 1860s-Present**

**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**

**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.

**Chemical Register 1992, 1999-Jun 2010**

**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.).

**ERIS Historical Searches 1999-Oct 2012**

**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.

**Canadian Mine Locations 1998-2009**

**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.

**Oil and Gas Wells Oct 2001-2012**

**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 Nickles' database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at [www.nickles.com](http://www.nickles.com).

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

**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.

**Retail Fuel Storage Tanks 2000-Jun 2010**

**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. Information is provided on company name, location and type of business.

**Scott's Manufacturing Directory 1992-Mar 2011**

**SCT**

Scott's Directories is a data bank containing information on over 70,000 manufacturers in Ontario. Even though Scott's listings are voluntary, it is the most comprehensive database of Ontario manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. This database begins with 1992 information and is updated annually.

**Anderson's Storage Tanks 1915-1953\***

**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.*



PHASE I ENVIRONMENTAL ASSESSMENT

VACANT LOT VISIT  
QUESTIONNAIRE

PROJECT NO.: GO23134EZ INSPECTOR: Nyke MITCHELL  
 CLIENT: BUCK HORN SAND & GRAVEL PROJECT MANAGER: u n n  
 INSPECTION DATE: July 19, 2011  
 LOCATION: B&S PIT - ACCESS RD GUIDE DURING THE INSPECTION: (CONTACT DETAILS)  
Phase 2 Site Investigation PROPERTY Jeff Chesser  
 TITLE: OWNER  
 IN FUNCTION SINCE: over 25 years

LOT NUMBER:	<u>LOTS 8 &amp; 9 Concession 9811</u>
CONCESSION:	<u>Concession 9810</u>
LOWER/UPPER TIER MUNICIPALITY:	<u>TOWNSHIP GALWAY (AVENUE 11) Peterborough County</u>

0.0 HEALTH AND SAFETY PROCEDURE AND/OR SPECIFICALLY REQUIRED EQUIPMENT?

0.1 Details: None

0.2 Equipment: None

1.0 SITE DESCRIPTION

1.1 Vacant Lot  No  Yes See ATTACHED MAP

1.2 Presence of Removable Structure  No  Yes \_\_\_\_\_

1.3 Characteristics

Evidence of Fill ONLY FROM LOT - Geologic INVOLVED ON PHASE I construction  
 Ditches ROUGH ROAD DITCHES TO POND  
 Vegetation HARDWOOD FOREST  
 Debris - TREE CUTTING  
 Slope SOUTH - TOWARDS POND



1.4 Soil Usage

- Storage
- Uncultivated
- Other: \_\_\_\_\_
- Wooded
- Parking Lot

1.5 Total Area of Site 19 ha

Percentage (approximate) of the Surface:

- Asphalted —
- Parking Lot —
- Access Road - 10%
- Gravel, Dirt - 30%
- Grassed (landscaping)
- Uncultivated
- Wooded 60%
- Other (storage area)

1.6 Surface Drainage

Catch Basins  Ditches  
Number: \_\_\_\_\_ Number and Direction: Generally N/S  
Ground Level with regards to Adjacent Areas: Higher  
Slope towards (if applicable): Road

1.7 Physical Evidence of Exterior Contamination:  No  Yes (explain below)

- Stains on the Ground: NONE
- Floating Phase on the Surface of the Water/Ditch: NONE
- Stunted, Deteriorated Vegetation: NONE
- Odours: NONE
- Other: NONE



**2.0 DESCRIPTION OF NEIGHBOURING AREA**

The property is bordered by (main roads):

North: Residential East: n  
 South: n West: n

**ADJACENT NEIGHBOURING AREA**

Direction	Type of Activity (Company Name)	Civic Address
North	Residential	—
West	n	
South	RESIDENTIAL	SW IS BUCK HORN SAND & GRAVEL DOWN GRADIENT
East	n	

**Presence of a Functional or Abandoned Well:**

Not visible

If yes, describe: WELLS AS PART OF HYDROGEOLOGIC ASSESSMENT

**Characteristics and Comments (500-m radius):**  
 GENERALLY RESIDENTIAL WITH TOWNSHIP WORKS YARD & BUCKHORN SAND & GRAVEL DOWN GRADIENT TO WEST.



3.0 HISTORY

Historical use of the lot:  Vacant  Wooded  Cultivated  Uncultivated  Other

Remarks: WOOD LOT ~~IS BEING~~ IS BEING CONVERTED TO RESIDENTIAL

PREVIOUS OCCUPANTS OR USAGE OF THE PROPERTY

Name	Type of Activity	Year
BUCKHORN SAND & GRAVEL JEFF CHESER	VACANT	- 1990's
B&S NOEL CHESER	n.	1950's
STABLER	n.	1920's



4.0 SITE INSPECTION

4.1 Description

Removable Structure:  No  Yes

4.2 Tanks

a) Were there tanks that have since been removed from the site?

No  Yes

If yes: - Removal date: \_\_\_\_\_

- Contractor who carried out the work: \_\_\_\_\_

\_\_\_\_\_

- Environmental studies  No  Yes, by: \_\_\_\_\_

b) Abandoned tanks still present on site:

No  Yes  More than two years

Which? \_\_\_\_\_

c) Are there still tanks on the site?

No  Yes

Which? \_\_\_\_\_

d) Potable water source

Municipal services or  Well

e) Presence of a functional or abandoned well:

Not visible

If yes, describe and indicate the location: SEE HYDROGEOLOGY REPORT

Phase 2





**4.3 Description of the Activities on the Property**

Type of Activities: ROUGHING IN ROADS FOR  
NEW SUBDIVISION (PHASE 2)

Remarks:

**4.4 Hazardous Materials**

f) Are there any hazardous materials stored and/or used on the site?

No: If no, proceed to Point 4.5.

Yes: If yes, explain below:

Location						
Hazardous materials: Categories	Type	Stored Amount	Type	Stored Amount	Type	Stored Amount
Gas (freon, halon, propane, etc.)						
Used Oils						
Solvents						
Acids or Bases						
PCB						
Other						
Remarks:						



**4.5 Solid and Household Wastes - Debris**

g) The household wastes are collected by which company?

NONE

**Inventory of the Debris:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

h) Are there any tenants who produce non-toxic liquid waste?

No  Yes

**4.6 Physical Evidence of Contamination**

a) Stains on the ground: NONE

b) Flow of liquid (hydrocarbons or hazardous materials)  
 Sporadic  Regular NONE

**Presence of a catch basin or of a ditch nearby:** NONE

Source:

- Storage of barrels of \_\_\_\_\_
- Tanks \_\_\_\_\_
- Machinery \_\_\_\_\_
- Other \_\_\_\_\_

**Type of Contaminated Materials:**

- Oil
- Solvent
- Other: \_\_\_\_\_

Presence of Absorbant:  No  Yes: \_\_\_\_\_

**Remarks:**



c) Have there been any governmental or citizen complaints concerning the emission of pollutants from the property?

No  Yes

If yes: Nature of the complaint: \_\_\_\_\_  
\_\_\_\_\_

#### 4.7 Liquid Effluent

a) Are wastewaters discharged on the property?

No

Yes: If yes, explain below:

Municipal Sewers

Retaining Basin

Septic Tank

Surface Water

Remarks:



INTERVIEW SUMMARY

Client: B&S ATTENTION: JEFF CHESER Project No: G023134E2  
Project / Site: BUCKHORN PHASE 2

Interview Date: July 19, 2011 Carried out by: Nylo McILVEEN  
Type of Interview: By telephone: In Person: ON SITE  
Location: ON SITE

Name of Interlocutor	Title	Firm
<u>Jeff Chesser</u>	<u>OWNER</u>	<u>Buckhorn Sand &amp; Gravel</u>

Interview Summary :  
It is second phase of a plan of subdivision. Geo-logic carried out test pits & Test wells for development and found no concerns. The property has been owned for over 50 years. The previous owner was familiar with the current owner and no issues were raised.

Transmitted Document (s): Geo-logic notification to a previous job

Prepared by: [Signature] Project Manager: [Signature]  
Date: July 26, 2011 Nylo McILVEEN

**PROPERTY DESCRIPTION:** PT LTS 8 & 9 CON 9 HARVEY, BEING PT 1 PL 45R12958, EXCEPT PTS 1 & 2 PL 45R13078, EXCEPT PT 1 PL 45R14296, EXCEPT PL 45M230 ; G/T AN BASEMENT IN GROSS AS IN PE96026 ; GALWAY-CAVENDISH AND HARVEY

**PROPERTY REMARKS:**

**ESTATE/QUALIFIER:**  
PEE SIMPLE  
ABSOLUTE

**RECENTLY:**  
DIVISION FROM 28358-0382

**FIN CREATION DATE:**  
2009/01/08

**OWNER'S NAMES:**  
1447147 ONTARIO INC.

**CAPACITY SHARE:**  
ROW#

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE: 2009/01/08 **						
R160041	1966/05/26	BYLAW				C
R686556	2002/03/20	TRANSFER	\$75,000	CHESHER, JEFFREY NORL	1447147 ONTARIO INC.	C
R694134	2003/01/15	TRANSFER	\$2	THE CORPORATION OF THE TOWNSHIP OF GALWAY-CAVENDISH AND HARVEY	1447147 ONTARIO INC.	C
45R12958	2004/04/06	PLAN REFERENCE				C
R705779	2004/04/06	CERTIFICATE		1447147 ONTARIO INC.	1447147 ONTARIO INC.	C
REMARKS: CERTIFICATE OF FIRST REGISTRATION RE: APPLICATION NO. R702538						
PE93851	2008/12/11	NO SUB AGREEMENT		1447147 ONTARIO INC.	THE CORPORATION OF THE TOWNSHIP OF GALWAY-CAVENDISH AND HARVEY	C
PE96026	2009/01/28	TRANSFER EASEMENT	\$2	1447147 ONTARIO INC.	THE CORPORATION OF THE TOWNSHIP OF GALWAY-CAVENDISH AND HARVEY	C
REMARKS: PLANNING ACT STATEMENTS						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.  
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.





14th Floor, Centre Tower  
3300 Bloor Street West  
Toronto, Ontario  
Canada M8X 2X4  
Tel.: 416.734.3300  
Fax: 416.231.1626  
Toll Free: 1.877.682.8772

[www.tssa.org](http://www.tssa.org)

Administration and  
Customer Services

Tel: (416) 734-3570  
Fax: (416) 734-3568

21 July 2011  
File No: FS 35480

Jason Geraldi  
GEO-LOGIC INC.  
347 Pido Road  
Unit # 29  
PETERBOROUGH ON K9J 6X7

Dear Sir:

**RE: Lots 8 & 9, Concession 9, County of Peterborough, Ontario**  
**Your Project No: G023134E2**

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

**TSSA cannot guarantee having information on sites that have not been licensed since 1987.**

*It should be noted that the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990 or furnace oil tanks prior to May 1, 2002. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.*

Yours truly,

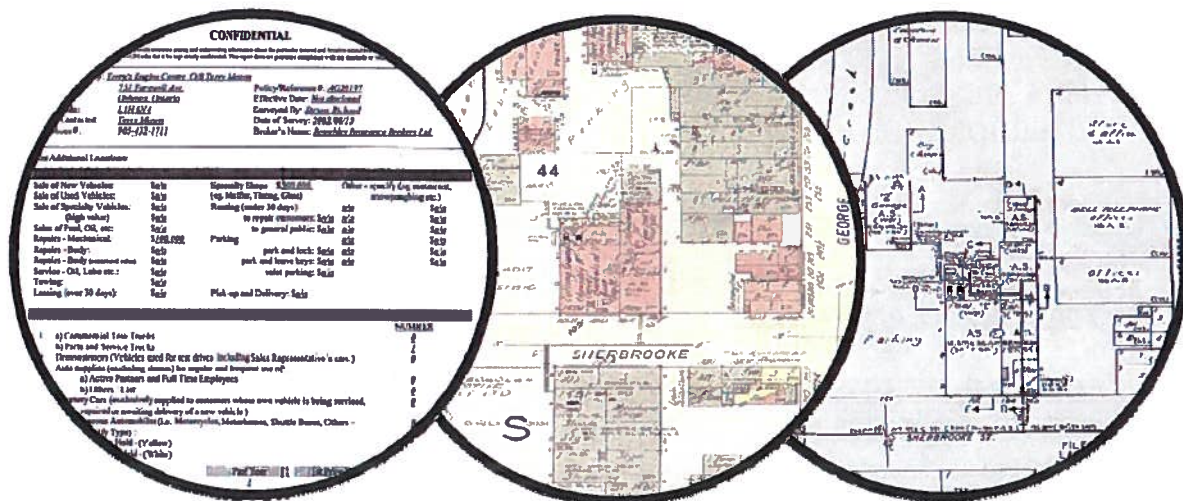
  
Prem Lal  
Coordinator Public Information Services



# HEIRS™



Historical  
Environmental  
Information  
Reporting  
System



**rms**



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150 Commerce Valley Drive W  
Thornhill, ON L3T 7Z3  
Tel: (905) 882-6300 ext 5410  
www.scm-rms.ca

Report Completed By:  
Vanessa Ode

**Site Address:**  
Lots 8 & 9, Concession 9  
Buckhorn, ON

**Project No:**  
G023134E2

**Requested by:**  
J. Geraldi  
Geo-Logic Inc.

**Date Completed:**  
July 29, 2011





ISO 9001 Certified

Risk Management Services  
150 Commerce Valley Drive W  
8<sup>th</sup> Floor  
Markham, ON  
L3T 7Z3

Tel: (905) 762-2800 ext 5410  
Fax: (905) 695-6543

## Historical Environmental Information Reporting System (HEIRS™)

July 29, 2011

Jason Geraldi  
Geo-Logic Inc.  
347 Pido Rd  
Peterborough, ON  
K9J 6X7

**Regarding:** Lots 8 & 9, Concession 9, Buckhorn – G023134E2

As requested, we have searched our records concerning the above site and the following information as listed below is appended hereto:

Information	Date(s)
Fire Insurance Plan(s)	NRF
Property Underwriters' Report(s)	NRF
Property Underwriters' Plan(s)	NRF

NRF: No Records Found    NO: Not Ordered

Our invoice in the amount of \$45.00 (+ HST) for the information provided will follow in due course.

Thank you for employing our services.

Vanessa Ode  
Environmental Services

New Website – [www.scm-rms.ca](http://www.scm-rms.ca)

### TERMS AND CONDITIONS

**Report.** The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in RMS's records relating to the described property (hereinafter referred to as the "Property") RMS makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. RMS does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

**Disclaimer.** RMS disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on RMS Reports or from any tortious acts or omissions of RMS's agents, employees or representatives.

**Entire Agreement.** The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

**Governing Document.** In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

**Law.** This agreement shall be governed by and construed in accordance with the laws of the Province of \* and the laws of Canada applicable therein.

# HEIRS™

Historical  
Environmental  
Information  
Reporting  
System



**NO RECORDS FOUND**

**Site Address:**

Lots 8 & 9, Concession 9  
Buckhorn, ON

**Project No:**

G023134E2

**rms**





# Canada's Primary Environmental Risk Information Service

**Project Site:** GRANITE RIDGE ESTATES  
LOTS 8 & 9, CONC 9  
BUCKHORN, ON

**Client:** Vanessa Ode  
SCM Risk Management Services Inc.  
150 Commerce Valley Dr W  
Lock Box 200  
Thornhill, ON L3T7Z3

**ERIS Project No:** 20110721023

**Report Type:** Custom Report - .25km Search Radius

**Prepared By:** Matt Thompson  
[mthompson@eris.ca](mailto:mthompson@eris.ca)

**Date:** July 28, 2011

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Site Address: LOTS 8 & 9, CONC 9 BUCKHORN, ON  
Report Type: Custom Report, 0.25 km Search Radius

	<u>Section</u>
<b>Report Summary</b> <i>This outlines the number of records from each database that fall on the site, and within various distances from the site.</i>	i
<b>Site Diagram</b> <i>The records that were found within a specified distance from the project property (the primary search radius) have been plotted on a diagram to provide you with a visual representation of the information available. Sites will be plotted on the diagram if there is sufficient information from the database source to determine accurate geographic coordinates. Each plotted site is marked with an acronym identifying the database in which the record was found (i.e., WDS for Waste Disposal Sites). These are referred to as "Map Keys". A variety of problems are inherent when attempting to associate various government or private source records with locations. EcoLog ERIS has attempted to make the best fit possible between the available data and their positions on the site diagram.</i>	ii
<b>Site Profile</b> <i>This table describes the records that relate directly to the property that is being researched.</i>	iii
<b>Detail Report</b> <i>This section represents information, by database, for the records found within the primary search radius. Listed at the end of each database are the sites that could not be plotted on the locator diagram because of insufficient address information. These records will not have map keys. They have been included because they may be found to be relevant during a more detailed investigation.</i>	iv
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Appendix: Database Descriptions

## Report Summary

Order Number: 20110721023  
 Site Name: GRANITE RIDGE ESTATES  
 Site Address: LOTS 8 & 9, CONC 9 BUCKHORN, ON  
 Report Type: Custom Report, 0.25 km Search Radius

### Number of Mappable Records Surrounding the Site

Database	Selected	On-site	Within 0.25	0.25km to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
COAL	Coal Gasification Plants	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EBR	Environmental Registry	Y	0	2	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	0	0
EIIS	Environmental Issues Information System	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 Storage Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	4	4
IAFT	Indian & Northern Affairs Fuel Tanks	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 Storage 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
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
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
PRT	Private and Retail Fuel Storage Tanks	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

## Report Summary

Order Number: 20110721023  
Site Name: GRANITE RIDGE ESTATES  
Site Address: LOTS 8 & 9, CONC 9 BUCKHORN, ON  
Report Type: Custom Report, 0.25 km Search Radius

Database		Selected	On-site	Within 0.25	0.25km to 0.25km	Total
SCT	Scott's Manufacturing Directory	Y	0	2	0	2
SPL	Ontario Spills	Y	0	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	0	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0	0
WWIS	Water Well Information System	Y	24	48	0	48
		TOTAL	24	57	0	57

The databases chosen by the client as per the submitted order form are denoted in the 'Selected' column in the above table. Counts have been provided outside the primary buffer area for cursory examination only. These records have not been examined or verified, therefore, they are subject to change.





Pinpointing Your Environmental Risks

12 Concorde Pl, Suite 800 North York, ON M3C 4J2  
416-510-5204

Project Property: GRANITE RIDGE ESTATES  
LOTS 8 & 9, CONC 9  
BUCKHORN, ON

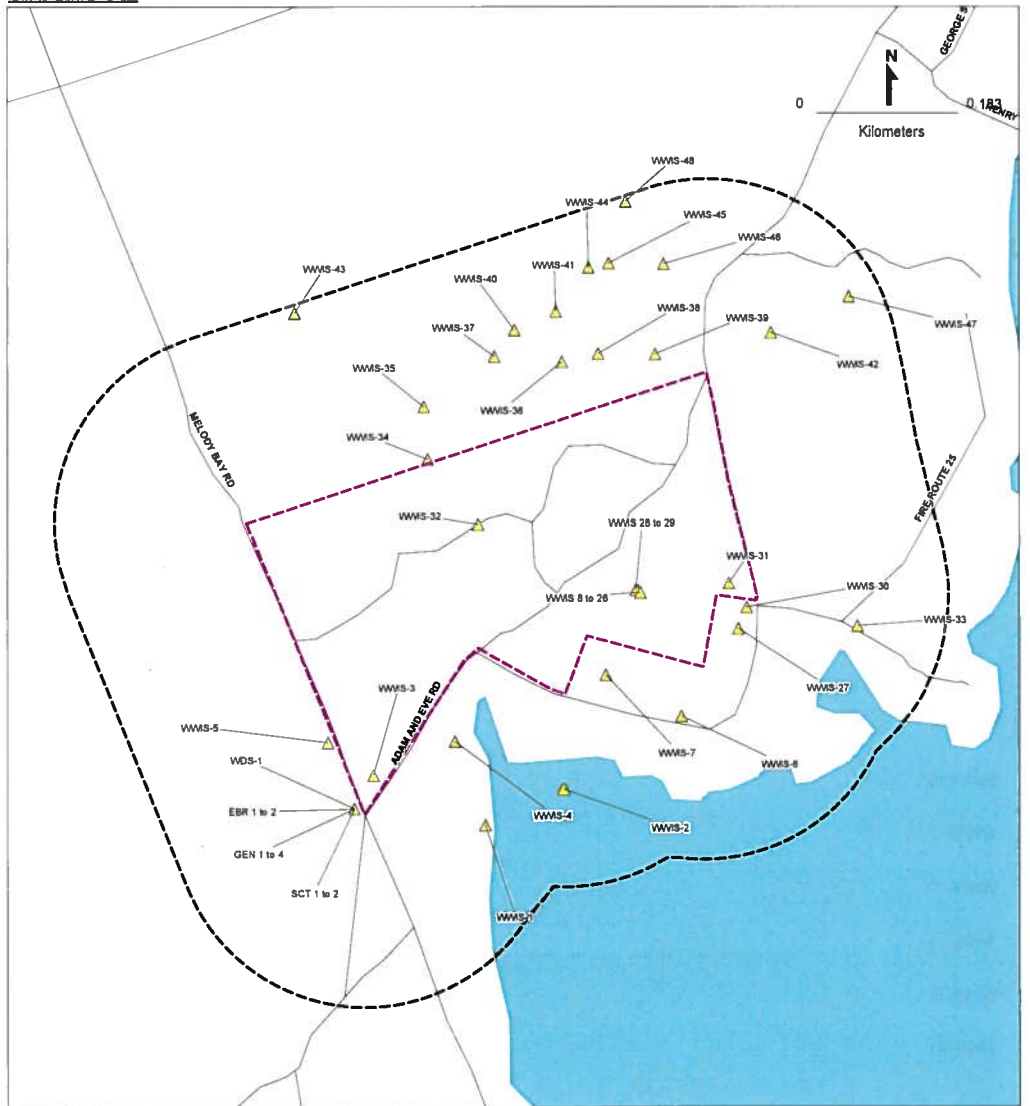
ERIS Project #: 20110721023

Date: JUL-29-2011

**LEGEND**

	<b>Project Property</b>		<b>Database Location</b>
	<b>Points of Interest</b>		<b>Landuse Classifications</b>
			Open Area
			Residential
			Commercial
			Resource and Industrial
			Government and Institutional
			Parks and Recreational
			Parks and Recreational
			Waterbody
			Golf Course/Driving Range
			Park/Sports Field
			Other Recreation Area
			Sports/Race Track
			Cemetery
			Campground
			Wooded Area
			Orchard
			Vineyard
			Conveyor
			Crane Moveable
			Crane Stationary
			Tank
			Rock Cut
			Auto Wrecker
			Lumber Yard
			Pit

**SITE DIAGRAM**



This diagram is to be used solely for relative street local on purposes  
It may not accurately portray street or site positions.

## Site Report

Order Number: 20110721023  
Site Name: GRANITE RIDGE ESTATES  
Site Address: LOTS 8 & 9, CONC 9 BUCKHORN, ON  
Report Type: Custom Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

### Water Well Information System

Map Key	Company Name	Address	City	Postal Code
WWIS-3		lot 8 con 9	BUCKHORN	
WWIS-8		lot 8 con 9		
WWIS-9		lot 8 con 9		
WWIS-10		lot 8 con 9		
WWIS-11		lot 8 con 9		
WWIS-12		lot 8 con 9		
WWIS-13		lot 8 con 9		
WWIS-14		lot 8 con 9		
WWIS-15		lot 8 con 9		
WWIS-16		lot 8 con 9		
WWIS-17		lot 8 con 9		
WWIS-18		lot 8 con 9		
WWIS-19		lot 8 con 9		
WWIS-20		lot 8 con 9		
WWIS-21		lot 8 con 9		



## Site Report

Order Number: 20110721023  
Site Name: GRANITE RIDGE ESTATES  
Site Address: LOTS 8 & 9, CONC 9 BUCKHORN, ON  
Report Type: Custom Report, 0.25 km Search Radius

FOR COMPLETE INFORMATION, REFER TO DETAIL REPORT

Map Key	Company Name	Address	City	Postal Code
WWIS-22		lot 8 con 9		
WWIS-23		lot 8 con 9		
WWIS-24		lot 8 con 9		
WWIS-25		lot 8 con 9		
WWIS-26		lot 8 con 9		
WWIS-28		lot 8 con 9		
WWIS-29		lot 8 con 9		
WWIS-31		lot 8 con 9		
WWIS-32		lot 8 con 9	BUCKHORN	

## Detail Report

Order Number: 20110721023  
Site Name: GRANITE RIDGE ESTATES  
Site Address: LOTS 8 & 9, CONC 9 BUCKHORN ON  
Report Type: Custom Report, 0.25 km Search Radius

**If information is required for sites located beyond the selected address, please contact your ERIS representative.**

Abandoned Aggregate Inventory  
Aggregate Inventory  
Certificates of Approval  
Compliance and Convictions  
Environmental Registry  
Fuel Storage Tank  
Ontario Regulation 347 Waste Generators Summary  
Private and Retail Fuel Storage Tanks  
Scott's Manufacturing Directory  
Ontario Spills  
Waste Disposal Sites - MOE CA Inventory  
Water Well Information System

**Abandoned Aggregate Inventory**

Map Key	Company	Address	Type	Region/County	Township
n/a		Lot 8 Con 10 Harvey	Pit	Peterborough	Harvey
			Concession:	10	
			Lot:	8	
			Size (ha):		
			Landuse:		
			Comments:		
n/a		Lot 8 Con 9 Harvey	Pit	Peterborough	Harvey
			Concession:	9	
			Lot:	8	
			Size (ha):	2.79	
			Landuse:		
			Comments:	pond	
n/a		Lot 8 Con 10 Harvey	Pit	Peterborough	Harvey
			Concession:	10	
			Lot:	8	
			Size (ha):		
			Landuse:	development	
			Comments:		

### Aggregate Inventory

Map Key	Company	Address	ID	Licence	Effective Date:	Current Status	Status Date	Operation Type	Max Tonnage	Unlimited Tonnage
n/a	1106488 ONTARIO LIMITED	Part 8, Con 10 HARVEY	3286	CLASS A LICENCE				Pit	227000	
				<b>Authority Type:</b>						
				<b>Extraction Area:</b>						
				<b>Licensed Area:</b>	18.82					
				<b>Lot:</b>	Part 8					
				<b>Concession:</b>	10					
				<b>Section:</b>						
				<b>Municipality:</b>	GALWAY-CAVENDISH AND HARVEY TP					
				<b>County:</b>	PETERBOROUGH CO					
				<b>District:</b>	Peterborough District					

Provincial Source Database

Certificates of Approval

Map Key	Company	Address	Certificate #	Application Year	Issue Date	Approval Type	Status	Application Type
n/a	HARVEY TWP.	LOT 9 CONC. 10 HARVEY TWP.	4-0208-88-	88	12/7/1988	Industrial wastewater	Cancelled	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: SEE NO 4-0219-88 Contaminants: Emission Control:					
n/a	1106488 Ontario Limited	Pl. Lot 8, Conc. 10, P.O. Box 95, Twp. of Harvey Galway-Cavendish And Harvey	A840900	2000	1/20/2000	Waste Management Systems	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
n/a	1106488 Ontario Limited	Pl. Lot 8, Conc. 10, P.O. Box 95, Twp. of Harvey Galway-Cavendish And Harvey	A920111	2000	2/4/2000	Waste Management Systems	Approved	
			Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

**Compliance and Convictions**

Map Key	Company	Address	File No.	Crown Brief No.	Ministry District	Region
n/a	BUCKHORN SAND AND GRAVEL LIMIT			96-0064-0121	PETERBOROUGH	EASTERN REGION
<b>Description:</b> ESTABLISH ANY SEWAGE SYSTEM FOR WHICH NO APPROVAL FOR THE ESTABLISHMENT OF THE SEWAGE PUMPER SYSTEM HAS BEEN ISSUED BY THE DIRECTOR.						
			<u>Date Charged</u>	<u>Fine</u>	<u>Act/Regulation/Section</u>	<u>Charge Disposition</u>
			2/19/97	\$500.00	EPA- -76 (B)	SUSPENDED SENTENCE
			2/19/97	\$500.00	EPA- -78(1)	SUSPENDED SENTENCE

Environmental Registry

Map Key	Company	Address	Year	EBR Registry No.	Ministry Ref. No.	Type
EBR-1	1106488 Ontario Limited	754 Melody Bay Road Galway-Cavendish-Harvey	2002	IA02E1505	2841-5G8TV7	Instrument Decision
				Instrument Type:	Approval for a waste disposal site. - EPA s. 27	
				Proposal Date:	11/28/02	
				Location:	754 Melody Bay Road Galway-Cavendish-Harvey Ontario	
				Proponent Address:	P.O. Box 100 Buckhorn Ontario K0L 1J0	
EBR-2	1106488 Ontario Limited o/a Buckhorn Sand & Gravel	754 Melody Bay Road Township of Harvey	1999	IA9E0463		Instrument
				Instrument Type:	EPA s. 27 - Approval for a waste disposal site.	
				Proposal Date:	4/13/99	
				Location:	Township of Harvey	
				Proponent Address:	1106488 Ontario Limited o/a Buckhorn Sand & Gravel 754 Melody Bay Road, L8, C10, Harvey Township, Buckhorn, Ontario, K0L 1J0	
n/a	1078815 Ontario Inc.	Lot 8 Township of Harvey	2000	IA00E0144		Instrument
				Instrument Type:	OWRA s. 34 - Permit to take water	
				Proposal Date:	1/24/00	
				Location:	Township of Harvey	
				Proponent Address:	1078815 Ontario Inc.R.R. #5, 1800 Beardsmore Road, Peterborough, Ontario, K9J 6X6	

Provincial Source Database

Fuel Storage Tank

Map Key	Company	Address	License Issue Date	Tank Status	Tank Status As Of	Operation Type	Facility Type
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP	11/8/1990	Licensed	August 2007	Private Fuel Outlet	Gasoline Station - Self Serve
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	13638	1989		Liquid Fuel Single Wall UST - Gasoline
			Active	13638	1989		Liquid Fuel Single Wall UST - Diesel
			Active	13638	1989		Liquid Fuel Single Wall UST - Diesel
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP	11/8/1990	Licensed	December 2008	Private Fuel Outlet	Gasoline Station - Self Serve
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	13638	1989		Liquid Fuel Single Wall UST - Gasoline
			Active	13638	1989		Liquid Fuel Single Wall UST - Diesel
			Active	13638	1989		Liquid Fuel Single Wall UST - Diesel
n/a	BUCKHORN YACHT HARBOUR LTD	LOT 8 CON 9 HARVEY TWP	7/12/2002	Licensed	December 2008	Retail Fuel Outlet	Marina
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	4500	1991		Liquid Fuel Single Wall UST - Gasoline
			Active	10000	1991		Liquid Fuel Single Wall UST - Gasoline
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP			January 2010	Private Fuel Outlet	FS PRIVATE FUEL OUTLET - SELF SERVE
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Diesel
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Gasoline



Fuel Storage Tank

Map Key	Company	Address	License Issue Date	Tank Status	Tank Status As Of	Operation Type	Facility Type
n/a	BUCKHORN YACHT HARBOUR LTD	2360 ARMSTRONG LANE E LAKEFIELD K0L 1J0			January 2010	Retail Fuel Outlet	FS MARINA
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	4500	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline
			Active	10000	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP			June 2010	Private Fuel Outlet	FS PRIVATE FUEL OUTLET - SELF SERVE
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Diesel
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Gasoline
n/a	BUCKHORN YACHT HARBOUR LTD	2360 ARMSTRONG LANE E LAKEFIELD K0L 1J0			June 2010	Retail Fuel Outlet	FS MARINA
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	10000	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline
			Active	4500	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP			June 2011	Private Fuel Outlet	FS PRIVATE FUEL OUTLET - SELF SERVE
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Gasoline
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Diesel
			Active	13638	1989	Fiberglass	Liquid Fuel Single Wall UST - Diesel

Provincial Source Database

Fuel Storage Tank

Map Key	Company	Address	License Issue Date	Tank Status	Tank Status As Of	Operation Type	Facility Type
n/a	BUCKHORN YACHT HARBOUR LTD	2360 ARMSTRONG LANE E LAKEFIELD K0L 1J0			June 2011	Retail Fuel Outlet	FS MARINA
			<u>Status</u>	<u>Capacity (L)</u>	<u>Year of Installation</u>	<u>Corrosion Protection</u>	<u>Tank Fuel Type</u>
			Active	4500	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline
			Active	10000	1992	Sacrificial anode	Liquid Fuel Single Wall UST - Gasoline

Ontario Regulation 347 Waste Generators Summary

Map Key	Company	Address	SIC Code	SIC Description	Waste Code	Waste Description
GEN-1	1106488 Ontario Limited	754 Melody Bay Rd Buckhorn KOL 1J0		Generator #: ON9136911 Approval Yrs: As of Oct 2010	252	Waste crankcase oils and lubricants
GEN-2	BUCKHORN SAND & GRAVEL	754 MELODY BAY ROAD BUCKHORN KOL 1J0	4214	EXCAVAT. & GRADING	212	ALIPHATIC SOLVENTS
					213	PETROLEUM DISTILLATES
					252	WASTE OILS & LUBRICANTS
GEN-3	1106488 Ontario Limited	754 Melody Bay Rd Buckhorn	484222	Dry Bulk Materials Trucking Local Generator #: ON9136911 Approval Yrs: 06,07,08	252	WASTE OILS & LUBRICANTS
GEN-4	1106488 Ontario Limited	754 Melody Bay Road Buckhorn KOL 1J0	212323	Sand and Gravel Mining and Quarrying Generator #: ON7624943 Approval Yrs: 05	252	WASTE OILS & LUBRICANTS
n/a	HARVEY, TOWNSHIP OF	LOT 9, CONC. 10, C/O BUCKHORN HARVEY TWP. KOL 1J0	0000	*** NOT DEFINED *** Generator #: ON0974000 Approval Yrs: 86,87,88,89,90	252	WASTE OILS & LUBRICANTS
n/a	HARVEY, TOWNSHIP OF 19-294	CONCESSION 10, PT. LOT 9 WORKS DEPT. GARAGE HARVEY TWP. KOL 1J0	8371	TRANSPORTATION ADMIN	213	PETROLEUM DISTILLATES
					251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
n/a	HARVEY, TOWNSHIP OF 19-294	WORKS DEPARTMENT GARAGE CONCESSION 10, PT. LOT 9 HARVEY TWP. KOL 1J0	8371	TRANSPORTATION ADMIN	251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
n/a	GALWAY, CAVENDISH & HARVEY TWP.	CONCESSION 10, PT. LOT 9 PUBLIC WORKS DEPT. GALWAY, CAVENDISH & HARVEY KOL 1J0	8371	TRANSPORTATION ADMIN	213	PETROLEUM DISTILLATES
					251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
					254	TRANSFER STATION OILS WASTES

Ontario Regulation 347 Waste Generators Summary

Map Key	Company	Address	SIC Code	SIC Description	Waste Code	Waste Description
n/a	GALWAY, CAVENDISH AND HARVEY TOWNSHIP	PUBLIC WORKS DEPARTMENT PART LOT 9, CONCESSION 10 GALWAY, CAVENDISH AND HARVEY	8371	TRANSPORTATION ADMIN.	213	PETROLEUM DISTILLATES
					251	OIL SKIMMINGS & SLUDGES
					252	WASTE OILS & LUBRICANTS
					254	TRANSFER STATION OILS WASTES
n/a	PETERBOROUGH, COUNTY OF	CONCESSION 10, PART LOT 9 HARVEY TOWNSHIP	8373	ENVIRON. ADMIN.	145	PAINT/PIGMENT/COATING RESIDUES
					148	INORGANIC LABORATORY CHEMICALS
					212	ALIPHATIC SOLVENTS
					213	PETROLEUM DISTILLATES
					221	LIGHT FUELS
					242	HALOGENATED PESTICIDES
					252	WASTE OILS & LUBRICANTS
					261	PHARMACEUTICALS
					263	ORGANIC LABORATORY CHEMICALS
					269	NON-HALOGENATED PESTICIDES
					331	WASTE COMPRESSED GASES
n/a	PETERBOROUGH, COUNTY OF	CONCESSION 10, PART LOT 9 HARVEY TOWNSHIP	8373	ENVIRON. ADMIN.		
			Generator #:	ON2116800		
			Approval Yrs:	02,03		
n/a	PETERBOROUGH, COUNTY OF	CONCESSION 10, PART LOT 9 HARVEY TOWNSHIP	8373	ENVIRON. ADMIN.		
			Generator #:	ON2116800		
			Approval Yrs:	04		

Provincial Source Database

Private and Retail Fuel Storage Tanks

Map Key	Company	Address	Location ID	Type	Expiry Date	Capacity (L)	Licence #
n/a	OAK BAY RESORT	PRT LOT 9 CON 9 BUCKHORN	2331	retail	1991-07-31	500	0052651001
n/a	BUCKHORN SAND GRAVEL LTD	LOT 8 CON 10 HARVEY TWP	6216	private		40914.00	0001034543
n/a	BUCKHORN YACHT HARBOUR LTD FRED FUDERER	LOT 8 CON 9 HARVEY TWP	6223	retail	1995-07-31	14500	0049969001
n/a	OAK BAY RESORT	PRT LOT 9 CON 9 BUCKHORN	2331	retail	1994-06-30	1000	0076393966

## Scott's Manufacturing Directory

Map Key	Company	Address	Established	Plant Size (ft <sup>2</sup> )	Employment	SIC/NAICS Code	Description
SCT-1	Buckhorn Sand & Gravel	754 Melody Bay Buckhorn KOL 1J0	1963			212323	Sand and Gravel Mining and Quarrying
						327990	All Other Non-Metallic Mineral Product Manufacturing
SCT-2	Buckhorn Sand & Gravel Limited	754 Melody Bay Rd Buckhorn KOL 1J0	01-JUL-63			327990	All Other Non-Metallic Mineral Product Manufacturing
						327990	All Other Non-Metallic Mineral Product Manufacturing
						212323	Sand and Gravel Mining and Quarrying
n/a	BUCKHORN SAND & GRAVEL	MELODY BAY BUCKHORN KOL 1J0	1963	0	15	3295	MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
						327990	All Other Non-Metallic Mineral Product Manufacturing
n/a	Buckhorn Yacht Harbour Ltd.	1835 Adam & Eve Rd Buckhorn KOL 1J0	01-JAN-74			713930	Marinas
						314990	All Other Textile Product Mills
						336612	Boat Building
						811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance

Ontario Spills

Map Key	Company	Address	Ref No.	Incident Dt	MOE Reported Dt	Contaminant Name	Contaminant Quantity
n/a	ONTARIO HYDRO	LOT 9, CONCESSION 6 (HILL ESTATE ROAD) TRANSFORMER GALWAY-CAVENDISH-HARVEY TOWNSHIP	23499	8/11/1989	8/12/1989		
			<b>Incident Summary:</b>	ONTARIO HYDRO- 1 LTR OF TRANSFORMER OIL TO SOIL PCB CONTENT UNKNOWN			
			<b>Incident Cause:</b>	COOLING SYSTEM LEAK			
			<b>Incident Reason:</b>	OVERSTRESS/OVERPRESSURE			
			<b>Nature of Impact:</b>				
			<b>Receiving Medium:</b>	LAND			
			<b>Environmental Impact:</b>				

Waste Disposal Sites - MOE CA Inventory

Map Key	Related Site(s)	Operation Name	Site Address
WDS-1		1106488 Ontario Limited	754 Melody Bay Road , Galway-Cavendish-Harvey
		Certificate No.: A710161	Mobile Units:
		Issue Date: 3/6/2003	Mobile Description:
		Status: Approved	Mobile Capacity:
		Application Status:	Mobile Unit Cert. No.:
		Concession:	Waste Type:
		Lot:	Waste Type Other:
			Waste Class:
		Region/County:	Other Approvals/Permits:
		Proponent:	
		Address:	Project Description:
		City:	
		Facility Type:	
		District Office:	Approval Description:
		Municipalities Served:	
		Total Area (ha):	
		Landfill Capacity (m <sup>3</sup> ):	Waste Description:
		Landfill Monitoring:	
		Landfill Control Type:	
		Est. Closure Date:	
		Transfer Area (ha)	Site Closing Description: A710161
		Transfer Capacity (m <sup>3</sup> ):	
		Transfer Sites Cert. No.:	
		Incinerator Area (ha):	
		Incinerator Capacity (t):	
		Processing Area (m <sup>2</sup> ):	
		Processing Capacity (m <sup>3</sup> /d):	
		Processing Volume (m <sup>3</sup> ):	
		Processing Feed (m <sup>3</sup> ):	



Waste Disposal Sites - MOE CA Inventory

Map Key	Related Site(s)	Operation Name	Site Address
n/a		BUCKHORN SAND & GRAVEL	GALWAY-CAVENDISH & HARVEY
		Certificate No.: A710161	Mobile Units:
		Issue Date: 10/21/1999	Mobile Description:
		Status: Approved	Mobile Capacity: 0
		Application Status:	Mobile Unit Cert. No.:
		Concession: 10	Waste Type:
		Lot: 8	Waste Type Other: No
			Waste Class:
		Region/County: PETERBOROUGH	Other Approvals/Permits:
		Proponent: 1106488 ONTARIO LIMITED	
		Address: BOX 100	Project Description:
		City: BUCKHORN, ONTARIO	
		Facility Type: Transfer Station	
		District Office: Peterborough	Approval Description:
		Municipalities Served:	
		Total Area (ha): 0	
		Landfill Capacity (m³): 0	Waste Description:
		Landfill Monitoring:	
		Landfill Control Type:	
		Est. Closure Date:	
		Transfer Area (ha): 0	Site Closing Description: A710161
		Transfer Capacity (m³): 0	
		Transfer Sites Cert. No.:	
		Incinerator Area (ha): 0	
		Incinerator Capacity (t): 0	
		Processing Area (m²): 0	
		Processing Capacity (m³/d): 0	
		Processing Volume (m³): 0	
		Processing Feed (m³): 0	

Waste Disposal Sites - MOE CA Inventory

Map Key	Related Site(s)	Operation Name	Site Address
n/a		1106488 Ontario Limited	Galway-Cavendish-Harvey
		Certificate No.: A710161	Mobile Units:
		Issue Date: 1/24/2011	Mobile Description:
		Status: Approved	Mobile Capacity:
		Application Status:	Mobile Unit Cert. No.:
		Concession:	Waste Type:
		Lot:	Waste Type Other:
			Waste Class:
		Region/County:	Other Approvals/Permits:
		Proponent:	
		Address:	Project Description:
		City:	
		Facility Type:	
		District Office:	Approval Description:
		Municipalities Served:	
		Total Area (ha):	
		Landfill Capacity (m³):	Waste Description:
		Landfill Monitoring:	
		Landfill Control Type:	
		Est. Closure Date:	
		Transfer Area (ha)	Site Closing Description: A710161
		Transfer Capacity (m³):	
		Transfer Sites Cert. No.:	
		Incinerator Area (ha):	
		Incinerator Capacity (t):	
		Processing Area (m²):	
		Processing Capacity (m³/d):	
		Processing Volume (m³):	
		Processing Feed (m³):	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-1		lot 8 con 9	5108542	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																				
<p>                     Easting Nad83: 709764.9                      Northing Nad83: 4935674                      Zone: 17                      Utm Reliability: margin of error: 100 m - 300 m                      Construction Date: 3/26/1976                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 47 ft                      Pump Rate: 30 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): 246.630249                      Elevation Reliability:                      Depth to Bedrock: 32                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>7 ft</td> <td>7 ft</td> <td></td> <td>FILL, SANDY</td> </tr> <tr> <td>22 ft</td> <td>29 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>3 ft</td> <td>32 ft</td> <td>GREY</td> <td>SAND</td> </tr> <tr> <td>15 ft</td> <td>47 ft</td> <td></td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	7 ft	7 ft		FILL, SANDY	22 ft	29 ft	BROWN	SAND	3 ft	32 ft	GREY	SAND	15 ft	47 ft		GRANITE
Thickness	Original Depth	Material Colour	Material																									
7 ft	7 ft		FILL, SANDY																									
22 ft	29 ft	BROWN	SAND																									
3 ft	32 ft	GREY	SAND																									
15 ft	47 ft		GRANITE																									

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-2		lot 8 con 9	5108553	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 709864.9                      Northing Nad83: 4935724                      Zone: 17                      Utm Reliability: margin of error : 100 m - 300 m                      Construction Date: 5/12/1976                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 28 ft                      Pump Rate: 1 GPM                      Static Water Level:                      Flow Rate: 3 GPM                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): Y                      Elevation (m): 246.711593                      Elevation Reliability:                      Depth to Bedrock: 8                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>3 ft</td> <td>3 ft</td> <td></td> <td>SAND, FILL</td> </tr> <tr> <td>5 ft</td> <td>8 ft</td> <td></td> <td>SAND, DARK-COLOURED</td> </tr> <tr> <td>20 ft</td> <td>28 ft</td> <td></td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	3 ft	3 ft		SAND, FILL	5 ft	8 ft		SAND, DARK-COLOURED	20 ft	28 ft		GRANITE
Thickness	Original Depth	Material Colour	Material																					
3 ft	3 ft		SAND, FILL																					
5 ft	8 ft		SAND, DARK-COLOURED																					
20 ft	28 ft		GRANITE																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-3		lot 8 con 9 BUCKHORN	7146826	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
Easting Nad83: 709616 Northing Nad83: 4935734 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 4/28/2010 Primary Water Use: Domestic Secondary Water Use: Test Hole Well Depth: 200 ft Pump Rate: 15 GPM Static Water Level: 6.4 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Convent.) Flowing (y/n): Elevation (m): 247.281051 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: FRESH Casing Material: STEEL, OPEN HOLE																								
<table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>19 ft</td> <td>19 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, PACKED</td> </tr> <tr> <td>5 ft</td> <td>24 ft</td> <td>BROWN</td> <td>SAND, BOULDERS, PACKED</td> </tr> <tr> <td>176 ft</td> <td>200 ft</td> <td>BLACK</td> <td>GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	19 ft	19 ft	BROWN	SAND, GRAVEL, PACKED	5 ft	24 ft	BROWN	SAND, BOULDERS, PACKED	176 ft	200 ft	BLACK	GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																					
19 ft	19 ft	BROWN	SAND, GRAVEL, PACKED																					
5 ft	24 ft	BROWN	SAND, BOULDERS, PACKED																					
176 ft	200 ft	BLACK	GRANITE, ROCK																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-4		lot 8 con 9 BUCKHORN	5120060	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																				
<p>                     Easting Nad83: 709722                      Northing Nad83: 4935781                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 10/27/2004                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 55 m                      Pump Rate: 32 LPM                      Static Water Level: 1.28 m                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Convent.)                      Flowing (y/n):                      Elevation (m): 247.995819                      Elevation Reliability:                      Depth to Bedrock: 36                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: OPEN HOLE, STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 m</td> <td>4 m</td> <td>BROWN</td> <td>SAND, HARD, PACKED</td> </tr> <tr> <td>7 m</td> <td>11 m</td> <td>GREY</td> <td>FINE SAND</td> </tr> <tr> <td>4 m</td> <td>15 m</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> <tr> <td>40 m</td> <td>55 m</td> <td>BLACK</td> <td>GRANITE, LAYERED</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 m	4 m	BROWN	SAND, HARD, PACKED	7 m	11 m	GREY	FINE SAND	4 m	15 m	RED	GRANITE, ROCK	40 m	55 m	BLACK	GRANITE, LAYERED
Thickness	Original Depth	Material Colour	Material																									
4 m	4 m	BROWN	SAND, HARD, PACKED																									
7 m	11 m	GREY	FINE SAND																									
4 m	15 m	RED	GRANITE, ROCK																									
40 m	55 m	BLACK	GRANITE, LAYERED																									

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-5		lot 8 con 10	5108403	008	10	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709554.9                      Northing Nad83: 4935774                      Zone: 17                      Utm Reliability: margin of error: 100 m - 300 m                      Construction Date: 5/25/1977                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 36 ft                      Pump Rate: 20 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): 251.155456                      Elevation Reliability:                      Depth to Bedrock: 32                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>32 ft</td> <td>32 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>4 ft</td> <td>36 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	32 ft	32 ft	BROWN	SAND	4 ft	36 ft	GREY	LIMESTONE
Thickness	Original Depth	Material Colour	Material																	
32 ft	32 ft	BROWN	SAND																	
4 ft	36 ft	GREY	LIMESTONE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-6		lot 8 con 9	5110881	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 710014.9 Northing Nad83: 4935824 Zone: 17 Utm Reliability: margin of error: 100 m - 300 m Construction Date: 10/3/1983 Primary Water Use: Domestic Secondary Water Use: Well Depth: 42 ft Pump Rate: 60 GPM Static Water Level: 5 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 248.396804 Elevation Reliability: Depth to Bedrock: 3 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			3 ft	3 ft	BROWN	SAND, STONES, LOOSE		
			39 ft	42 ft	RED	GRANITE, HARD		



Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-7		lot 8 con 9	5109171	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709914.9 Northing Nad83: 4935874 Zone: 17 Utm Reliability: margin of error: 100 m - 300 m Construction Date: 9/27/1978 Primary Water Use: Domestic Secondary Water Use: Well Depth: 31 ft Pump Rate: 20 GPM Static Water Level: 4 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 248.577224 Elevation Reliability: Depth to Bedrock: 30 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			30 ft	30 ft		BROWN		SAND
			1 ft	31 ft		GREY		GRANITE

Provincial Source Database

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-8		lot 8 con 9	5117950	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 7/17/1998 Primary Water Use: Secondary Water Use: Well Depth: 501 ft Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Construction Method: Not Known Flowing (y/n): Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 277 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			277 ft	277 ft				PREV. DRILLED
			48 ft	325 ft		GREY		GRANITE
			2 ft	327 ft		BLACK		GRANITE
			43 ft	370 ft		BLACK		GRANITE
			9 ft	379 ft		GREY		GRANITE
			99 ft	478 ft		BLACK		GRANITE
			23 ft	501 ft		BLACK		GRANITE

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-9		lot 8 con 9	5117880	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 6/15/1998                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 277 ft                      Pump Rate:                      Static Water Level:                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n):                      Elevation (m): 251 72821                      Elevation Reliability:                      Depth to Bedrock: 8                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1 ft</td> <td>1 ft</td> <td>BROWN</td> <td>TOPSOIL, SOFT</td> </tr> <tr> <td>7 ft</td> <td>8 ft</td> <td>BROWN</td> <td>SAND, STONES, SOFT</td> </tr> <tr> <td>92 ft</td> <td>100 ft</td> <td>BLACK</td> <td>GRANITE, HARD</td> </tr> <tr> <td>15 ft</td> <td>115 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>85 ft</td> <td>200 ft</td> <td>BLACK</td> <td>GRANITE, HARD</td> </tr> <tr> <td>25 ft</td> <td>225 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>52 ft</td> <td>277 ft</td> <td>BLACK</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	1 ft	1 ft	BROWN	TOPSOIL, SOFT	7 ft	8 ft	BROWN	SAND, STONES, SOFT	92 ft	100 ft	BLACK	GRANITE, HARD	15 ft	115 ft	RED	GRANITE, HARD	85 ft	200 ft	BLACK	GRANITE, HARD	25 ft	225 ft	RED	GRANITE, HARD	52 ft	277 ft	BLACK	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																																					
1 ft	1 ft	BROWN	TOPSOIL, SOFT																																					
7 ft	8 ft	BROWN	SAND, STONES, SOFT																																					
92 ft	100 ft	BLACK	GRANITE, HARD																																					
15 ft	115 ft	RED	GRANITE, HARD																																					
85 ft	200 ft	BLACK	GRANITE, HARD																																					
25 ft	225 ft	RED	GRANITE, HARD																																					
52 ft	277 ft	BLACK	GRANITE, HARD																																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																				
WWIS-10		lot 8 con 9	5111849	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																				
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 7/3/1986                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 288 ft                      Pump Rate: 1 GPM                      Static Water Level: 65 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>TOPSOIL, MEDIUM-GRAINED</td> </tr> <tr> <td>146 ft</td> <td>150 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>40 ft</td> <td>190 ft</td> <td>GREY</td> <td>GRANITE, HARD</td> </tr> <tr> <td>98 ft</td> <td>288 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	TOPSOIL, MEDIUM-GRAINED	146 ft	150 ft	RED	GRANITE, HARD	40 ft	190 ft	GREY	GRANITE, HARD	98 ft	288 ft	RED	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																									
4 ft	4 ft	BROWN	TOPSOIL, MEDIUM-GRAINED																									
146 ft	150 ft	RED	GRANITE, HARD																									
40 ft	190 ft	GREY	GRANITE, HARD																									
98 ft	288 ft	RED	GRANITE, HARD																									

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-11		lot 8 con 9	5117528	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 7/29/1997 Primary Water Use: Not Used Secondary Water Use: Well Depth: 66 ft Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Abandoned-Other Construction Method: Other Method Flowing (y/n): Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Overburden Water Type: Casing Material:					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			66 ft	66 ft		PREVIOUSLY DUG		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																								
WWIS-12		lot 8 con 9	5117056	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																								
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/29/1995                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 127 ft                      Pump Rate: 20 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): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 19                      Overburden/Bedrock: Bedrock                      Water Type: Not stated                      Casing Material: OPEN HOLE, STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BLACK</td> <td>TOPSOIL, SOFT</td> </tr> <tr> <td>15 ft</td> <td>19 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, SOFT</td> </tr> <tr> <td>1 ft</td> <td>20 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> <tr> <td>15 ft</td> <td>35 ft</td> <td>BLACK</td> <td>GRANITE, HARD</td> </tr> <tr> <td>92 ft</td> <td>127 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BLACK	TOPSOIL, SOFT	15 ft	19 ft	BROWN	SAND, GRAVEL, SOFT	1 ft	20 ft	RED	GRANITE, HARD	15 ft	35 ft	BLACK	GRANITE, HARD	92 ft	127 ft	RED	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																													
4 ft	4 ft	BLACK	TOPSOIL, SOFT																													
15 ft	19 ft	BROWN	SAND, GRAVEL, SOFT																													
1 ft	20 ft	RED	GRANITE, HARD																													
15 ft	35 ft	BLACK	GRANITE, HARD																													
92 ft	127 ft	RED	GRANITE, HARD																													

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-13		lot 8 con 9	5115374	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 6/17/1991                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 25 ft                      Pump Rate: 10 GPM                      Static Water Level: 6 ft                      Flow Rate:                      Clear/Cloudy: CLOUDY                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock: Overburden                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>8 ft</td> <td>8 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>17 ft</td> <td>25 ft</td> <td>RED</td> <td>GRAVEL</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	8 ft	8 ft	BROWN	SAND	17 ft	25 ft	RED	GRAVEL
Thickness	Original Depth	Material Colour	Material																	
8 ft	8 ft	BROWN	SAND																	
17 ft	25 ft	RED	GRAVEL																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-14		lot 8 con 9	5115338	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956 9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/12/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 50 ft                      Pump Rate: 30 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 2                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>2 ft</td> <td>2 ft</td> <td>BLACK</td> <td>TOPSOIL, FILL, SOFT</td> </tr> <tr> <td>3 ft</td> <td>5 ft</td> <td>RED</td> <td>GRANITE, CLAY, LOOSE</td> </tr> <tr> <td>2 ft</td> <td>7 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>27 ft</td> <td>34 ft</td> <td>RED</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>10 ft</td> <td>44 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>4 ft</td> <td>48 ft</td> <td>RED</td> <td>GRANITE, QUARTZ, HARD</td> </tr> <tr> <td>2 ft</td> <td>50 ft</td> <td>BLACK</td> <td>GRANITE, QUARTZ, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	2 ft	2 ft	BLACK	TOPSOIL, FILL, SOFT	3 ft	5 ft	RED	GRANITE, CLAY, LOOSE	2 ft	7 ft	BLACK	GRANITE, QUARTZ, HARD	27 ft	34 ft	RED	GRANITE, QUARTZ, HARD	10 ft	44 ft	BLACK	GRANITE, QUARTZ, HARD	4 ft	48 ft	RED	GRANITE, QUARTZ, HARD	2 ft	50 ft	BLACK	GRANITE, QUARTZ, HARD
Thickness	Original Depth	Material Colour	Material																																					
2 ft	2 ft	BLACK	TOPSOIL, FILL, SOFT																																					
3 ft	5 ft	RED	GRANITE, CLAY, LOOSE																																					
2 ft	7 ft	BLACK	GRANITE, QUARTZ, HARD																																					
27 ft	34 ft	RED	GRANITE, QUARTZ, HARD																																					
10 ft	44 ft	BLACK	GRANITE, QUARTZ, HARD																																					
4 ft	48 ft	RED	GRANITE, QUARTZ, HARD																																					
2 ft	50 ft	BLACK	GRANITE, QUARTZ, HARD																																					



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-15		lot 8 con 9	5114695	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 5/25/1990 Primary Water Use: Domestic Secondary Water Use: Well Depth: 45 ft Pump Rate: 10 GPM Static Water Level: 4 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 12 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL								
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			12 ft	12 ft	BROWN	SAND		
			33 ft	45 ft	RED	GRANITE		

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-16		lot 8 con 9	5114694	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 5/24/1990 Primary Water Use: Domestic Secondary Water Use: Well Depth: 60 ft Pump Rate: 10 GPM Static Water Level: 2 ft Flow Rate: Clear/Cloudy: CLOUDY Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 15 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			15 ft	15 ft	BROWN	SAND, GRAVEL		
			45 ft	60 ft	RED	GRANITE		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-17		lot 8 con 9	5114693	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 5/24/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 65 ft                      Pump Rate: 10 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy: CLOUDY                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 18                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>18 ft</td> <td>18 ft</td> <td>BROWN</td> <td>SAND, GRAVEL</td> </tr> <tr> <td>47 ft</td> <td>65 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	18 ft	18 ft	BROWN	SAND, GRAVEL	47 ft	65 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
18 ft	18 ft	BROWN	SAND, GRAVEL																	
47 ft	65 ft	RED	GRANITE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-18		lot 8 con 9	5114692	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 5/26/1990                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 44 ft                      Pump Rate: 10 GPM                      Static Water Level: 2 ft                      Flow Rate:                      Clear/Cloudy: CLOUDY                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 25                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>25 ft</td> <td>25 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>19 ft</td> <td>44 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	25 ft	25 ft	BROWN	SAND	19 ft	44 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
25 ft	25 ft	BROWN	SAND																	
19 ft	44 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-19		lot 8 con 9	5114607	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/26/1989                      Primary Water Use: Not Used                      Secondary Water Use:                      Well Depth: 280 ft                      Pump Rate:                      Static Water Level:                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Observation Wells                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type:                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>276 ft</td> <td>280 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	SAND	276 ft	280 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
4 ft	4 ft	BROWN	SAND																	
276 ft	280 ft	RED	GRANITE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-20		lot 8 con 9	5114606	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 10/5/1989 Primary Water Use: Domestic Secondary Water Use: Well Depth: 300 ft Pump Rate: 0 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): 251.72821 Elevation Reliability: Depth to Bedrock: 12 Overburden/Bedrock: Bedrock Water Type: Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			12 ft	12 ft	BROWN	SAND, BOULDERS, LOOSE		
			288 ft	300 ft	RED	GRANITE		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-21		lot 8 con 9	5113610	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 12/14/1988 Primary Water Use: Domestic Secondary Water Use: Well Depth: 63 ft Pump Rate: 20 GPM Static Water Level: 10 ft Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 7 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			7 ft	7 ft	BROWN	SAND		
			56 ft	63 ft	RED	GRANITE		

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
WWIS-22		lot 8 con 9	5112580	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 9/14/1987                      Primary Water Use:                      Secondary Water Use:                      Well Depth: 200 ft                      Pump Rate: 0 GPM                      Static Water Level: 0 ft                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Abandoned-Supply                      Construction Method: Air Percussion                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 2                      Overburden/Bedrock: Bedrock                      Water Type:                      Casing Material:                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>2 ft</td> <td>2 ft</td> <td>BROWN</td> <td>SAND</td> </tr> <tr> <td>18 ft</td> <td>20 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>30 ft</td> <td>50 ft</td> <td>RED</td> <td>GRANITE, QUARTZ</td> </tr> <tr> <td>65 ft</td> <td>115 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>30 ft</td> <td>145 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> <tr> <td>35 ft</td> <td>180 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>20 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, QUARTZ</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	2 ft	2 ft	BROWN	SAND	18 ft	20 ft	RED	GRANITE	30 ft	50 ft	RED	GRANITE, QUARTZ	65 ft	115 ft	RED	GRANITE	30 ft	145 ft	BLACK	GRANITE	35 ft	180 ft	RED	GRANITE	20 ft	200 ft	RED	GRANITE, QUARTZ
Thickness	Original Depth	Material Colour	Material																																					
2 ft	2 ft	BROWN	SAND																																					
18 ft	20 ft	RED	GRANITE																																					
30 ft	50 ft	RED	GRANITE, QUARTZ																																					
65 ft	115 ft	RED	GRANITE																																					
30 ft	145 ft	BLACK	GRANITE																																					
35 ft	180 ft	RED	GRANITE																																					
20 ft	200 ft	RED	GRANITE, QUARTZ																																					



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-23		lot 8 con 9	5112239	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP

Easting Nad83: 709956.9  
 Northing Nad83: 4935982  
 Zone: 17  
 Utm Reliability: unknown UTM  
 Construction Date: 2/25/1987  
 Primary Water Use:  
 Secondary Water Use:  
 Well Depth: 523 ft  
 Pump Rate:  
 Static Water Level:  
 Flow Rate:  
 Clear/Cloudy:  
 Specific Capacity:  
 Final Well Status:  
 Construction Method: Rotary (Air)  
 Flowing (y/n): N  
 Elevation (m): 251.72821  
 Elevation Reliability:  
 Depth to Bedrock: 4  
 Overburden/Bedrock: Bedrock  
 Water Type:  
 Casing Material: STEEL

Thickness	Original Depth	Material Colour	Material
4 ft	4 ft	BROWN	SAND, MEDIUM-GRAINED
256 ft	260 ft	RED	GRANITE, HARD
95 ft	355 ft	BLACK	GRANITE, HARD
135 ft	490 ft	RED	GRANITE, HARD
33 ft	523 ft	GREY	GRANITE, HARD

Provincial Source Database

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-24		lot 8 con 9	5112072	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709956.9                      Northing Nad83: 4935982                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 10/24/1986                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 87 ft                      Pump Rate: 50 GPM                      Static Water Level: 10 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.72821                      Elevation Reliability:                      Depth to Bedrock: 4                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>4 ft</td> <td>4 ft</td> <td>BROWN</td> <td>SAND, STONES, HARD</td> </tr> <tr> <td>83 ft</td> <td>87 ft</td> <td>RED</td> <td>GRANITE, HARD</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	4 ft	4 ft	BROWN	SAND, STONES, HARD	83 ft	87 ft	RED	GRANITE, HARD
Thickness	Original Depth	Material Colour	Material																	
4 ft	4 ft	BROWN	SAND, STONES, HARD																	
83 ft	87 ft	RED	GRANITE, HARD																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-25		lot 8 con 9	5111847	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956 9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 7/7/1986 Primary Water Use: Domestic Secondary Water Use: Well Depth: 270 ft Pump Rate: 1 GPM Static Water Level: 65 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Air) Flowing (y/n): N Elevation (m): 251.72821 Elevation Reliability: Depth to Bedrock: 4 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			4 ft	4 ft	BROWN	TOPSOIL, MEDIUM-GRAINED		
			126 ft	130 ft	RED	GRANITE, HARD		
			50 ft	180 ft	GREY	GRANITE, HARD		
			90 ft	270 ft	RED	GRANITE, HARD		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-26		lot 8 con 9	5111373	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709956.9 Northing Nad83: 4935982 Zone: 17 Utm Reliability: unknown UTM Construction Date: 4/15/1985 Primary Water Use: Domestic Secondary Water Use: Well Depth: 60 ft Pump Rate: 20 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): 251.72821 Elevation Reliability: Depth to Bedrock: 8 Overburden/Bedrock: Bedrock Water Type: Not stated Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			8 ft	8 ft		BROWN	SAND, GRAVEL, LOOSE	
			52 ft	60 ft		BROWN	GRANITE, HARD	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-27		lot 8 con 9 LAKEFIELD	5120072	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 710085                      Northing Nad83: 4935939                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 11/30/2004                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 19 m                      Pump Rate: 40 LPM                      Static Water Level: 3.65 m                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n):                      Elevation (m): 249.976593                      Elevation Reliability:                      Depth to Bedrock: 16                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>14 m</td> <td>19 m</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> <tr> <td>5 m</td> <td>5 m</td> <td>BROWN</td> <td>SAND, GRAVEL, LOOSE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	14 m	19 m	RED	GRANITE, ROCK	5 m	5 m	BROWN	SAND, GRAVEL, LOOSE
Thickness	Original Depth	Material Colour	Material																	
14 m	19 m	RED	GRANITE, ROCK																	
5 m	5 m	BROWN	SAND, GRAVEL, LOOSE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-28		lot 8 con 9	5118467	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709950.4                      Northing Nad83: 4935985                      Zone: 17                      Utm Reliability: unknown UTM                      Construction Date: 6/16/2000                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 40 ft                      Pump Rate: 50 GPM                      Static Water Level: 12 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n): N                      Elevation (m): 251.830902                      Elevation Reliability:                      Depth to Bedrock: 24                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>24 ft</td> <td>24 ft</td> <td>BROWN</td> <td>GRAVEL, LOOSE, PACKED</td> </tr> <tr> <td>16 ft</td> <td>40 ft</td> <td>BLACK</td> <td>GRANITE, SOFT</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	24 ft	24 ft	BROWN	GRAVEL, LOOSE, PACKED	16 ft	40 ft	BLACK	GRANITE, SOFT
Thickness	Original Depth	Material Colour	Material																	
24 ft	24 ft	BROWN	GRAVEL, LOOSE, PACKED																	
16 ft	40 ft	BLACK	GRANITE, SOFT																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-29		lot 8 con 9	5118436	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709953.4 Northing Nad83: 4935985 Zone: 17 Utm Reliability: unknown UTM Construction Date: 8/18/1999 Primary Water Use: Domestic Secondary Water Use: Well Depth: 35 ft Pump Rate: 50 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): 251.863494 Elevation Reliability: Depth to Bedrock: 31 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: OPEN HOLE, STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			31 ft	31 ft			SAND, CLAY	
			4 ft	35 ft		RED	GRANITE	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-30		lot 8 con 18 BUCKHORN	7121580	008	18	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 710095 Northing Nad83: 4935967 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 7/15/2008 Primary Water Use: Domestic Secondary Water Use: Well Depth: 45 ft Pump Rate: 10 GPM Static Water Level: 2 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): Elevation (m): 250.219299 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: FRESH Casing Material: STEEL					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			1 ft	1 ft		BROWN	TOPSOIL	
			27 ft	28 ft		BROWN	SAND, CLAY	
			2 ft	30 ft			GRAVEL	
			15 ft	45 ft		RED	GRANITE, ROCK	



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-31		lot 8 con 9	5101634	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p> <b>Easting Nad83:</b> 710070.9  <b>Northing Nad83:</b> 4935998  <b>Zone:</b> 17  <b>Utm Reliability:</b> margin of error: 100 m - 300 m  <b>Construction Date:</b> 4/9/1959  <b>Primary Water Use:</b> Domestic  <b>Secondary Water Use:</b>  <b>Well Depth:</b> 29 ft  <b>Pump Rate:</b> 7 GPM  <b>Static Water Level:</b> 4 ft  <b>Flow Rate:</b>  <b>Clear/Cloudy:</b> CLEAR  <b>Specific Capacity:</b>  <b>Final Well Status:</b> Water Supply  <b>Construction Method:</b> Cable Tool  <b>Flowing (y/n):</b> N  <b>Elevation (m):</b> 252.429962  <b>Elevation Reliability:</b>  <b>Depth to Bedrock:</b> 15  <b>Overburden/Bedrock:</b> Bedrock  <b>Water Type:</b> FRESH  <b>Casing Material:</b> OPEN HOLE, STEEL                 </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>1 ft</td> <td>1 ft</td> <td></td> <td>TOPSOIL</td> </tr> <tr> <td>14 ft</td> <td>15 ft</td> <td>BROWN</td> <td>CLAY, MEDIUM SAND</td> </tr> <tr> <td>14 ft</td> <td>29 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	1 ft	1 ft		TOPSOIL	14 ft	15 ft	BROWN	CLAY, MEDIUM SAND	14 ft	29 ft	RED	GRANITE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																					
1 ft	1 ft		TOPSOIL																					
14 ft	15 ft	BROWN	CLAY, MEDIUM SAND																					
14 ft	29 ft	RED	GRANITE																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-32		lot 8 con 9 BUCKHORN	7146824	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709743                      Northing Nad83: 4936063                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 4/23/2010                      Primary Water Use: Domestic                      Secondary Water Use: Test Hole                      Well Depth: 180 ft                      Pump Rate: 15 GPM                      Static Water Level:                      Flow Rate: 3.5 GPM                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n): Y                      Elevation (m): 249.956328                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type:                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>3 ft</td> <td>3 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, LOOSE</td> </tr> <tr> <td>177 ft</td> <td>180 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	3 ft	3 ft	BROWN	SAND, GRAVEL, LOOSE	177 ft	180 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																	
3 ft	3 ft	BROWN	SAND, GRAVEL, LOOSE																	
177 ft	180 ft	RED	GRANITE																	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality								
WWIS-33		lot 8 con 9	5101635	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP								
<p>                     Easting Nad83: 710239 9                      Northing Nad83: 4935948                      Zone: 17                      Utm Reliability: margin of error: 100 m - 300 m                      Construction Date: 12/7/1960                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 25 ft                      Pump Rate: 17 GPM                      Static Water Level: 10 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 248 461898                      Elevation Reliability:                      Depth to Bedrock: 0                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>25 ft</td> <td>25 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	25 ft	25 ft	RED	GRANITE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>													
25 ft	25 ft	RED	GRANITE													

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-34		lot 8 con 9 BUCKHORN	7146825	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
Easting Nad83: 709675 Northing Nad83: 4936145 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 5/27/2010 Primary Water Use: Domestic Secondary Water Use: Test Hole Well Depth: 200 ft Pump Rate: 15 GPM Static Water Level: 9 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): Elevation (m): 257.816864 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: Casing Material: STEEL, OPEN HOLE								
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			16 ft	16 ft	BROWN	SAND, GRAVEL, LOOSE		
			184 ft	200 ft	RED	GRANITE, ROCK		

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-35		lot 8 con 9 BUCKHORN	7139242	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 709668                      Northing Nad83: 4936213                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 11/2/2009                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 200 ft                      Pump Rate: 15 GPM                      Static Water Level: 22.4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n):                      Elevation (m): 263.079833                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type:                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>31 ft</td> <td>31 ft</td> <td>GREY</td> <td>CLAY, STONES, HARDPAN</td> </tr> <tr> <td>18 ft</td> <td>49 ft</td> <td>GREY</td> <td>LIMESTONE, SHALE, LAYERED</td> </tr> <tr> <td>151 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	31 ft	31 ft	GREY	CLAY, STONES, HARDPAN	18 ft	49 ft	GREY	LIMESTONE, SHALE, LAYERED	151 ft	200 ft	RED	GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																					
31 ft	31 ft	GREY	CLAY, STONES, HARDPAN																					
18 ft	49 ft	GREY	LIMESTONE, SHALE, LAYERED																					
151 ft	200 ft	RED	GRANITE, ROCK																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-36		lot 8 con 9 BUCKHORN	7124865	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709845 Northing Nad83: 4936277 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 5/9/2009 Primary Water Use: Domestic Secondary Water Use: Well Depth: 120 ft Pump Rate: 15 GPM Static Water Level: 29.4 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): Elevation (m): 260.882232 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: FRESH Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>		<u>Material</u>	
			3 ft	3 ft	BROWN		SAND, SOFT	
			117 ft	120 ft	RED		GRANITE, ROCK	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-37		lot 9 con 90 BUCKHORN	5119887	009	90	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709757                      Northing Nad83: 4936281                      Zone: 17                      Utm Reliability: margin of error : 100 m - 300 m                      Construction Date: 5/3/2004                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 68.5 m                      Pump Rate: 8 LPM                      Static Water Level: 10.9 m                      Flow Rate:                      Clear/Cloudy:                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n):                      Elevation (m): 263.932037                      Elevation Reliability:                      Depth to Bedrock: 16                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>5 m</td> <td>5 m</td> <td>BROWN</td> <td>SAND, BOULDERS, LOOSE</td> </tr> <tr> <td>63.5 m</td> <td>68.5 m</td> <td>RED</td> <td>GRANITE, GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	5 m	5 m	BROWN	SAND, BOULDERS, LOOSE	63.5 m	68.5 m	RED	GRANITE, GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																	
5 m	5 m	BROWN	SAND, BOULDERS, LOOSE																	
63.5 m	68.5 m	RED	GRANITE, GRANITE, ROCK																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-38		lot 8 con 9 BUCKHORN	7124937	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709892 Northing Nad83: 4936289 Zone: 17 Utm Reliability: margin of error : 10 - 30 m Construction Date: 5/9/2009 Primary Water Use: Domestic Secondary Water Use: Well Depth: 160 ft Pump Rate: 15 GPM Static Water Level: 21.3 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Air Percussion Flowing (y/n): Elevation (m): 259.288787 Elevation Reliability: Depth to Bedrock: Overburden/Bedrock: Water Type: FRESH Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			160 ft	160 ft		RED		GRANITE, ROCK



Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-39		lot 8 con 9 BUCKHORN	7144544	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p> <b>Easting Nad83:</b> 709966  <b>Northing Nad83:</b> 4936291  <b>Zone:</b> 17  <b>Utm Reliability:</b> margin of error: 10 - 30 m  <b>Construction Date:</b> 3/31/2010  <b>Primary Water Use:</b> Domestic  <b>Secondary Water Use:</b>  <b>Well Depth:</b> 240 ft  <b>Pump Rate:</b> 15 GPM  <b>Static Water Level:</b> 6.7 ft  <b>Flow Rate:</b>  <b>Clear/Cloudy:</b> CLEAR  <b>Specific Capacity:</b>  <b>Final Well Status:</b> Water Supply  <b>Construction Method:</b> Rotary (Convent)  <b>Flowing (y/n):</b>  <b>Elevation (m):</b> 255.671554  <b>Elevation Reliability:</b>  <b>Depth to Bedrock:</b>  <b>Overburden/Bedrock:</b>  <b>Water Type:</b> FRESH  <b>Casing Material:</b> STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th><u>Thickness</u></th> <th><u>Original Depth</u></th> <th><u>Material Colour</u></th> <th><u>Material</u></th> </tr> </thead> <tbody> <tr> <td>24 ft</td> <td>24 ft</td> <td>BROWN</td> <td>SAND, SILT, FINE-GRAINED</td> </tr> <tr> <td>176 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> <tr> <td>40 ft</td> <td>240 ft</td> <td>BLACK</td> <td>GRANITE</td> </tr> </tbody> </table>									<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>	24 ft	24 ft	BROWN	SAND, SILT, FINE-GRAINED	176 ft	200 ft	RED	GRANITE, ROCK	40 ft	240 ft	BLACK	GRANITE
<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>																					
24 ft	24 ft	BROWN	SAND, SILT, FINE-GRAINED																					
176 ft	200 ft	RED	GRANITE, ROCK																					
40 ft	240 ft	BLACK	GRANITE																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-40		lot 8 con 9 BUCKHORN	7124866	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709782                      Northing Nad83: 4936316                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 5/18/2009                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 120 ft                      Pump Rate: 5.5 GPM                      Static Water Level: 36.41 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n):                      Elevation (m): 264.709991                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>10 ft</td> <td>10 ft</td> <td>BROWN</td> <td>SAND, GRAVEL, CLAY</td> </tr> <tr> <td>110 ft</td> <td>120 ft</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	10 ft	10 ft	BROWN	SAND, GRAVEL, CLAY	110 ft	120 ft	RED	GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																	
10 ft	10 ft	BROWN	SAND, GRAVEL, CLAY																	
110 ft	120 ft	RED	GRANITE, ROCK																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-41		lot 8 con 9 BUCKHORN	7139240	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 709835                      Northing Nad83: 4936342                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 10/8/2009                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 200 ft                      Pump Rate: 15 GPM                      Static Water Level: 48.6 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n):                      Elevation (m): 264 827972                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>3 ft</td> <td>3 ft</td> <td>BROWN</td> <td>SAND, STONES, LOOSE</td> </tr> <tr> <td>197 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	3 ft	3 ft	BROWN	SAND, STONES, LOOSE	197 ft	200 ft	RED	GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																	
3 ft	3 ft	BROWN	SAND, STONES, LOOSE																	
197 ft	200 ft	RED	GRANITE, ROCK																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-42		lot 9 con 9	5108541	009	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 710114 9 Northing Nad83: 4936324 Zone: 17 Utm Reliability: margin of error : 100 m - 300 m Construction Date: 3/8/1976 Primary Water Use: Domestic Secondary Water Use: Well Depth: 123 ft Pump Rate: 2 GPM Static Water Level: 12 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 258 86325 Elevation Reliability: Depth to Bedrock: 13 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			1 ft	1 ft		TOPSOIL, DARK-COLOURED		
			12 ft	13 ft	BROWN	SAND, STONES		
			110 ft	123 ft		GRANITE		

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-43		lot 9 con 9 BUCKHORNT	5119886	009	09	CON	PETERBOROUGH	BURLEIGH & ANSTRUTHER TOWNSHIP (ANSTRUTHER)																
<p>                     Easting Nad83: 709494                      Northing Nad83: 4936329                      Zone: 17                      Utm Reliability: margin of error : 100 m - 300 m                      Construction Date: 5/1/2004                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 32 m                      Pump Rate: 30 LPM                      Static Water Level: 4.1 m                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Rotary (Air)                      Flowing (y/n):                      Elevation (m): 268 399322                      Elevation Reliability:                      Depth to Bedrock: 16                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: OPEN HOLE, STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>5 m</td> <td>5 m</td> <td>GREY</td> <td>SAND, BOULDERS, PACKED</td> </tr> <tr> <td>22 m</td> <td>27 m</td> <td>GREY</td> <td>LIMESTONE, SHALE, ROCK</td> </tr> <tr> <td>5 m</td> <td>32 m</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	5 m	5 m	GREY	SAND, BOULDERS, PACKED	22 m	27 m	GREY	LIMESTONE, SHALE, ROCK	5 m	32 m	RED	GRANITE, ROCK
Thickness	Original Depth	Material Colour	Material																					
5 m	5 m	GREY	SAND, BOULDERS, PACKED																					
22 m	27 m	GREY	LIMESTONE, SHALE, ROCK																					
5 m	32 m	RED	GRANITE, ROCK																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-44		lot 9 con 9	5107339	009	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 709875.9                      Northing Nad83: 4936401                      Zone: 17                      Utm Reliability: margin of error : 30 m - 100 m                      Construction Date: 6/16/1974                      Primary Water Use:                      Secondary Water Use:                      Well Depth: 41 ft                      Pump Rate: 1 GPM                      Static Water Level: 12 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Abandoned-Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 269.082122                      Elevation Reliability:                      Depth to Bedrock: 8                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>8 ft</td> <td>8 ft</td> <td></td> <td>PREVIOUSLY DUG</td> </tr> <tr> <td>2 ft</td> <td>10 ft</td> <td>BROWN</td> <td>SHALE, GRAVEL</td> </tr> <tr> <td>31 ft</td> <td>41 ft</td> <td></td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	8 ft	8 ft		PREVIOUSLY DUG	2 ft	10 ft	BROWN	SHALE, GRAVEL	31 ft	41 ft		GRANITE
Thickness	Original Depth	Material Colour	Material																					
8 ft	8 ft		PREVIOUSLY DUG																					
2 ft	10 ft	BROWN	SHALE, GRAVEL																					
31 ft	41 ft		GRANITE																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-45		lot 9 con 9	5107340	009	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709901.9 Northing Nad83: 4936407 Zone: 17 Utm Reliability: margin of error ± 30 m - 100 m Construction Date: 6/22/1974 Primary Water Use: Domestic Secondary Water Use: Well Depth: 80 ft Pump Rate: 5 GPM Static Water Level: 14 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 266.323211 Elevation Reliability: Depth to Bedrock: 0 Overburden/Bedrock: Mixed in a Layer Water Type: FRESH Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>	<u>Material</u>	
			12 ft	12 ft		BROWN	SAND, SHALE	
			68 ft	80 ft			GRANITE	

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
WWIS-46		lot 9 con 9	5107338	009	09	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: 709972.9 Northing Nad83: 4936408 Zone: 17 Utm Reliability: margin of error : 30 m - 100 m Construction Date: 7/15/1974 Primary Water Use: Domestic Secondary Water Use: Well Depth: 200 ft Pump Rate: 1 GPM Static Water Level: 15 ft Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Cable Tool Flowing (y/n): N Elevation (m): 259.728912 Elevation Reliability: Depth to Bedrock: 0 Overburden/Bedrock: Bedrock Water Type: FRESH Casing Material: STEEL, OPEN HOLE					
			<u>Thickness</u>	<u>Original Depth</u>	<u>Material Colour</u>	<u>Material</u>		
			200 ft	200 ft		GRANITE		



**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality												
WWIS-47		lot 9 con 9	5108520	009	09	CON	PETERBOROUGH	HARVEY TOWNSHIP												
<p>                     Easting Nad83: 710214.9                      Northing Nad83: 4936374                      Zone: 17                      Utm Reliability: margin of error : 100 m - 300 m                      Construction Date: 6/5/1975                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 21 ft                      Pump Rate: 5 GPM                      Static Water Level: 4 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Cable Tool                      Flowing (y/n): N                      Elevation (m): 259.763                      Elevation Reliability:                      Depth to Bedrock: 3                      Overburden/Bedrock: Bedrock                      Water Type: FRESH                      Casing Material: OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>3 ft</td> <td>3 ft</td> <td></td> <td>SAND, BOULDERS</td> </tr> <tr> <td>18 ft</td> <td>21 ft</td> <td></td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	3 ft	3 ft		SAND, BOULDERS	18 ft	21 ft		GRANITE
Thickness	Original Depth	Material Colour	Material																	
3 ft	3 ft		SAND, BOULDERS																	
18 ft	21 ft		GRANITE																	

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																
WWIS-48		lot 8 con 9 BUCKHORN	7144543	008	09	CON	PETERBOROUGH	HARVEY TOWNSHIP																
<p>                     Easting Nad83: 709920                      Northing Nad83: 4936487                      Zone: 17                      Utm Reliability: margin of error : 10 - 30 m                      Construction Date: 3/31/2010                      Primary Water Use: Domestic                      Secondary Water Use:                      Well Depth: 460 ft                      Pump Rate: 15 GPM                      Static Water Level: 18.7 ft                      Flow Rate:                      Clear/Cloudy: CLEAR                      Specific Capacity:                      Final Well Status: Water Supply                      Construction Method: Air Percussion                      Flowing (y/n):                      Elevation (m): 267.064086                      Elevation Reliability:                      Depth to Bedrock:                      Overburden/Bedrock:                      Water Type: FRESH                      Casing Material: STEEL, OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>7 ft</td> <td>7 ft</td> <td>BROWN</td> <td>CLAY, STONES, HARD</td> </tr> <tr> <td>193 ft</td> <td>200 ft</td> <td>RED</td> <td>GRANITE, ROCK</td> </tr> <tr> <td>260 ft</td> <td>460 ft</td> <td>GREY</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	7 ft	7 ft	BROWN	CLAY, STONES, HARD	193 ft	200 ft	RED	GRANITE, ROCK	260 ft	460 ft	GREY	GRANITE
Thickness	Original Depth	Material Colour	Material																					
7 ft	7 ft	BROWN	CLAY, STONES, HARD																					
193 ft	200 ft	RED	GRANITE, ROCK																					
260 ft	460 ft	GREY	GRANITE																					

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																				
n/a		lot 9	5110107	009		CON	PETERBOROUGH	HARVEY TOWNSHIP																																				
<p> <b>Easting Nad83:</b>  <b>Northing Nad83:</b>  <b>Zone:</b>  <b>Utm Reliability:</b> unknown UTM  <b>Construction Date:</b> 11/26/1980  <b>Primary Water Use:</b> Domestic  <b>Secondary Water Use:</b>  <b>Well Depth:</b> 229 ft  <b>Pump Rate:</b> 8 GPM  <b>Static Water Level:</b> 15 ft  <b>Flow Rate:</b>  <b>Clear/Cloudy:</b> CLEAR  <b>Specific Capacity:</b>  <b>Final Well Status:</b> Water Supply  <b>Construction Method:</b> Cable Tool  <b>Flowing (y/n):</b> N  <b>Elevation (m):</b>  <b>Elevation Reliability:</b>  <b>Depth to Bedrock:</b> 15  <b>Overburden/Bedrock:</b> Bedrock  <b>Water Type:</b> FRESH  <b>Casing Material:</b> OPEN HOLE                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>15 ft</td> <td>15 ft</td> <td>GREY</td> <td>GRAVEL, CLAY</td> </tr> <tr> <td>45 ft</td> <td>60 ft</td> <td>GREY</td> <td>LIMESTONE</td> </tr> <tr> <td>15 ft</td> <td>75 ft</td> <td>GREY</td> <td>LIMESTONE, SOFT</td> </tr> <tr> <td>50 ft</td> <td>125 ft</td> <td>RED</td> <td>LIMESTONE</td> </tr> <tr> <td>35 ft</td> <td>160 ft</td> <td>RED</td> <td>LIMESTONE</td> </tr> <tr> <td>15 ft</td> <td>175 ft</td> <td>BLACK</td> <td>ROCK</td> </tr> <tr> <td>15 ft</td> <td>190 ft</td> <td>RED</td> <td>ROCK</td> </tr> <tr> <td>39 ft</td> <td>229 ft</td> <td>BLACK</td> <td>ROCK</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	15 ft	15 ft	GREY	GRAVEL, CLAY	45 ft	60 ft	GREY	LIMESTONE	15 ft	75 ft	GREY	LIMESTONE, SOFT	50 ft	125 ft	RED	LIMESTONE	35 ft	160 ft	RED	LIMESTONE	15 ft	175 ft	BLACK	ROCK	15 ft	190 ft	RED	ROCK	39 ft	229 ft	BLACK	ROCK
Thickness	Original Depth	Material Colour	Material																																									
15 ft	15 ft	GREY	GRAVEL, CLAY																																									
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39 ft	229 ft	BLACK	ROCK																																									

Water Well Information System

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality																																
n/a		lot 8	5111584	008		CON	PETERBOROUGH	HARVEY TOWNSHIP																																
<p> <b>Easting Nad83:</b>  <b>Northing Nad83:</b>  <b>Zone:</b>  <b>Utm Reliability:</b> unknown UTM  <b>Construction Date:</b> 9/18/1985  <b>Primary Water Use:</b> Domestic  <b>Secondary Water Use:</b>  <b>Well Depth:</b> 22 ft  <b>Pump Rate:</b> 10 GPM  <b>Static Water Level:</b> 1 ft  <b>Flow Rate:</b>  <b>Clear/Cloudy:</b> CLEAR  <b>Specific Capacity:</b>  <b>Final Well Status:</b> Water Supply  <b>Construction Method:</b> Cable Tool  <b>Flowing (y/n):</b> N  <b>Elevation (m):</b>  <b>Elevation Reliability:</b>  <b>Depth to Bedrock:</b> 12  <b>Overburden/Bedrock:</b> Bedrock  <b>Water Type:</b> FRESH  <b>Casing Material:</b> STEEL                 </p> <table border="1"> <thead> <tr> <th>Thickness</th> <th>Original Depth</th> <th>Material Colour</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1 ft</td> <td>1 ft</td> <td>BLACK</td> <td>TOPSOIL</td> </tr> <tr> <td>8 ft</td> <td>9 ft</td> <td>BROWN</td> <td>CLAY, STONES</td> </tr> <tr> <td>3 ft</td> <td>12 ft</td> <td>BROWN</td> <td>GRAVEL, STONES</td> </tr> <tr> <td>3 ft</td> <td>15 ft</td> <td>GREY</td> <td>GRANITE</td> </tr> <tr> <td>3 ft</td> <td>18 ft</td> <td>RED</td> <td>GRANITE</td> </tr> <tr> <td>2 ft</td> <td>20 ft</td> <td>GREY</td> <td>GRANITE</td> </tr> <tr> <td>2 ft</td> <td>22 ft</td> <td>RED</td> <td>GRANITE</td> </tr> </tbody> </table>									Thickness	Original Depth	Material Colour	Material	1 ft	1 ft	BLACK	TOPSOIL	8 ft	9 ft	BROWN	CLAY, STONES	3 ft	12 ft	BROWN	GRAVEL, STONES	3 ft	15 ft	GREY	GRANITE	3 ft	18 ft	RED	GRANITE	2 ft	20 ft	GREY	GRANITE	2 ft	22 ft	RED	GRANITE
Thickness	Original Depth	Material Colour	Material																																					
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2 ft	22 ft	RED	GRANITE																																					

**Water Well Information System**

Map Key	Company	Address	Well Id	Lot	Concession	Concession Name	County	Municipality
n/a		lot 9 con 6 BUCKHOR	5120326	009	06	CON	PETERBOROUGH	HARVEY TOWNSHIP
			Easting Nad83: Northing Nad83: Zone: Utm Reliability: Construction Date: 6/3/2005 Primary Water Use: Secondary Water Use: Well Depth: 89 m Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Construction Method: Flowing (y/n): Elevation (m): Elevation Reliability: Depth to Bedrock: 0 Overburden/Bedrock: Bedrock Water Type: Casing Material:					
			<u>Thickness</u>	<u>Original Depth</u>		<u>Material Colour</u>		<u>Material</u>
			89 m	89 m		RED		GRANITE

## Appendix: Ontario 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 descriptions for more information.

### Provincial Government Source Databases:

#### **Abandoned Aggregate Inventory Up to Sept 2002**

**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 Jun 2010**

**AGR**

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. Please note that the database is only referenced by lot/concession and city/town location. The database provides information regarding the registered owner/operator, location, status, licence type, and maximum tonnage.

#### **Abandoned Mines Information System 1800-2005**

**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.

#### **Borehole 1875-Sept 2010**

**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-Jun 2011**

**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.

#### **TSSA Commercial Fuel Oil Tanks 1948-Aug 2010**

**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.

**Coal Gasification Plants 1987, 1988\***

**COAL**

This inventory of all known and historical coal gasification plants was collected by the Ministry of Environment. 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, landuse, soil condition, site operators/occupants, site description, and potential environmental impacts. This information is effective to 1988, but the program has since been discontinued.

**Compliance and Convictions 1989-Jun 2011**

**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.

**Drill Holes 1886-2005**

**DRL**

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

**Environmental Registry 1994-Jun 2011**

**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, licence, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes things like; Approval for discharge into the natural environment other than water (i.e. Air), Permit to Take Water (PTTW), Certificate of Property Use (CPU), Approval for a waste disposal site, Order for preventative measures.(EPA s. 18), Order for conformity with Act for waste disposal sites.(EPA s. 44), Order for remedial work.(EPA s. 17) and many more.

**TSSA Fuel Storage Tanks Current to Jun 2011**

**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.

**Ontario Regulation 347 Waste Generators Summary 1986-Oct 2010**

**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.

**Mineral Occurrences 1846-Nov 2010**

**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.

**Non-Compliance Reports 1992(water only), 1994-2009**

**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.

**Ontario Oil and Gas Wells 1800-Jun 2011**

**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.

**Ontario Inventory of PCB Storage Sites 1987-Oct 2004**

**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.

**Pesticide Register 1988-Mar 2011**

**PES**

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

**Private and Retail Fuel Storage Tanks 1989-1996\***

**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).

**Ontario Regulation 347 Waste Receivers Summary 1986-2008**

**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 2011**

**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. Information available includes Registration Number, Filing Owner, Property Address, Filing Date and Municipality.



**Ontario Spills 1988-Nov 2010**

**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 1990-2009**

**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).

**Waste Disposal Sites - MOE CA Inventory 1970-Jun 2011**

**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. For more current information for Waste Disposal Sites please see the EBR database, which will include information such as 'Approval for a waste disposal site (EPA s.27)' and 'Approval for use of a former waste disposal site (EPA s.46)'.

**Waste Disposal Sites - MOE 1991 Historical Approval Inventory Up to Oct 1990\***

**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-Mar 2011**

**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.

**Federal Government Source Databases:**

**Diagram Identifier:**

**Environmental Effects Monitoring 1992-2007\***

**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.

**Environmental Issues Inventory System 1992-2001\***

**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.

**Federal Convictions 1988-Jun 2007**

**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-May 2011**

**FCS**

The Treasury Board of Canada Secretariat maintains an inventory of all known contaminated sites held by various Federal departments and agencies. This inventory does not include properties owned by Crown corporations, but does contain non-federal sites for which the Government of Canada has accepted some or all financial responsibility. All sites have been classified through a system developed by the Canadian Council of Ministers of the Environment. The database provides information on company name, location, site ID #, property use, classification, current status, contaminant type and plan of action for site remediation.

**Fisheries & Oceans Fuel Tanks 1964-Sept 2003**

**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.

**Indian & Northern Affairs Fuel Tanks 1950-Aug 2003**

**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.

**National Analysis of Trends in Emergencies System (NATES) 1974-1994\***

**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.

**National Defence & Canadian Forces Fuel Tanks Up to May 2001\***

**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.

**National Defence & Canadian Forces Spills Mar 1999-Aug 2010**

**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.

**National Defence & Canadian Forces Waste Disposal Sites 2001-April 2007**

**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.

**National Environmental Emergencies System (NEES) 1974-2003**

**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.

**National PCB Inventory 1988-2008**

**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.

**National Pollutant Release Inventory 1993-2009**

**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.

**Parks Canada Fuel Storage Tanks 1920-Jan 2005**

**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.

**Transport Canada Fuel Storage Tanks 1970-March 2007**

**TCFT**

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. This inventory will also include The Pickering Lands, which refers to the 7,530 hectares (18,600 acres) of land in Pickering, Markham and Uxbridge - owned by the Government of Canada since 1972. Properties on this land has been leased by the government since 1975, falls under the Site Management Policy of Transport Canada, but administered by Public Works and Government Services Canada. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

**Private Source Databases:**

**Anderson's Waste Disposal Sites 1860s-Present**

**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**

**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.

**Chemical Register 1992, 1999-Jun 2010**

**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.).

**ERIS Historical Searches 1999-Apr 2011**

**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.

**Canadian Mine Locations 1998-2009**

**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.

**Oil and Gas Wells Oct 2001-Jun 2011**

**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 Nickles' database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at [www.nickles.com](http://www.nickles.com).

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

**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.

**Retail Fuel Storage Tanks 2000-Jun 2010**

**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. Information is provided on company name, location and type of business.

**Scott's Manufacturing Directory 1992-Mar 2011**

**SCT**

Scott's Directories is a data bank containing information on over 70,000 manufacturers in Ontario. Even though Scott's listings are voluntary, it is the most comprehensive database of Ontario manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. This database begins with 1992 information and is updated annually.

**Anderson's Storage Tanks 1915-1953\***

**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.*

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**APPENDIX C**  
**AERIAL PHOTOGRAPHS**

**GEO-LOGIC INC.**

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**AERIAL PHOTOGRAPHY - 1929**

*Phase One Environmental Site Assessment*

*Granite Ridge Estates*

*Township Galway-Cavendish and Harvey*

*Buckhorn, Ontario*

*Scale 1:20000*

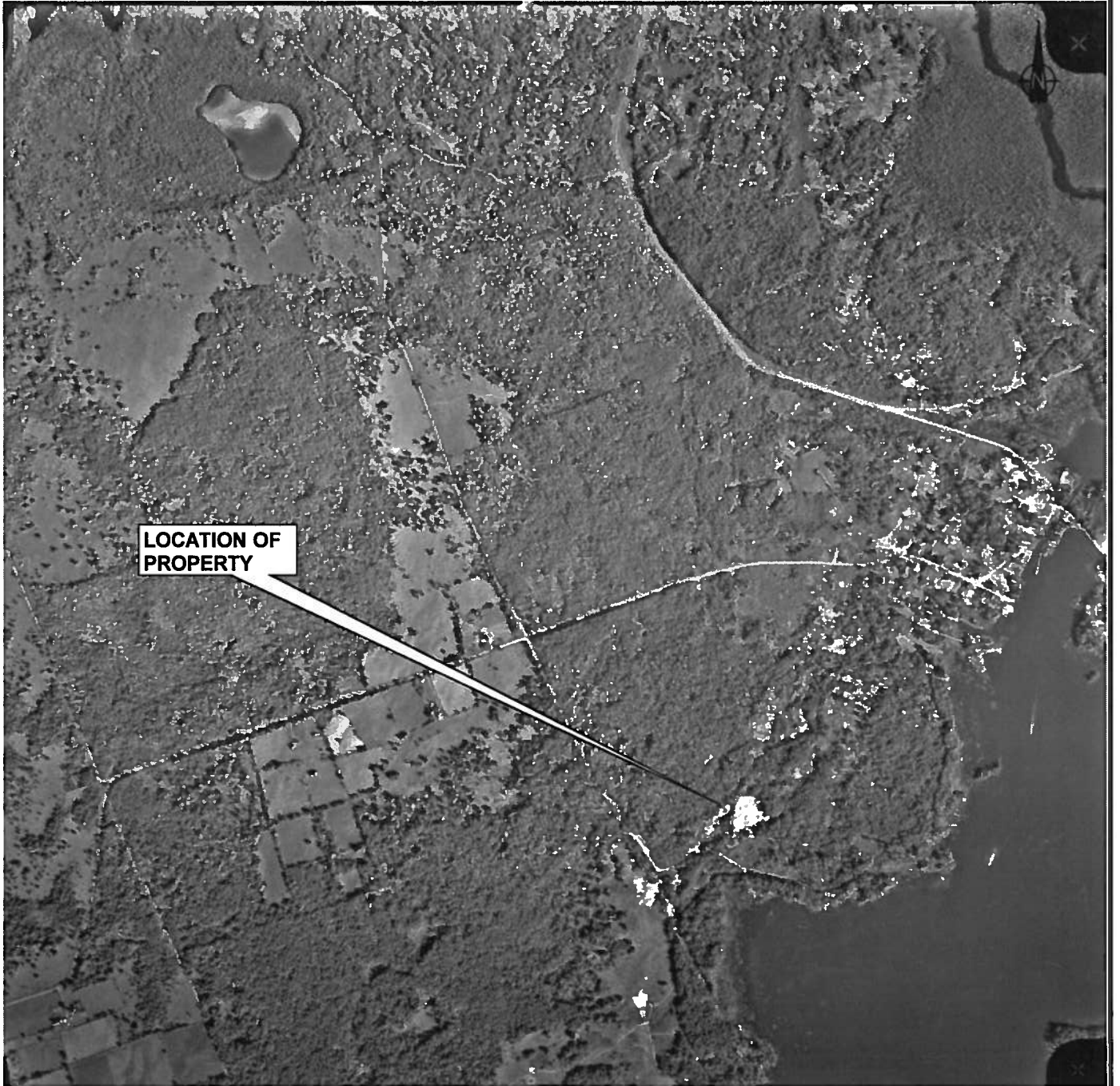


**Geo-Logic Inc.**

**G024361E1**

**C-1**

Source: National Air Photo Library of Natural Resources Canada, dated 1929.



**AERIAL PHOTOGRAPHY - 1962**

*Phase One Environmental Site Assessment*

*Granite Ridge Estates*

*Township Galway-Cavendish and Harvey*

*Buckhorn, Ontario*

*Scale 1:5000*

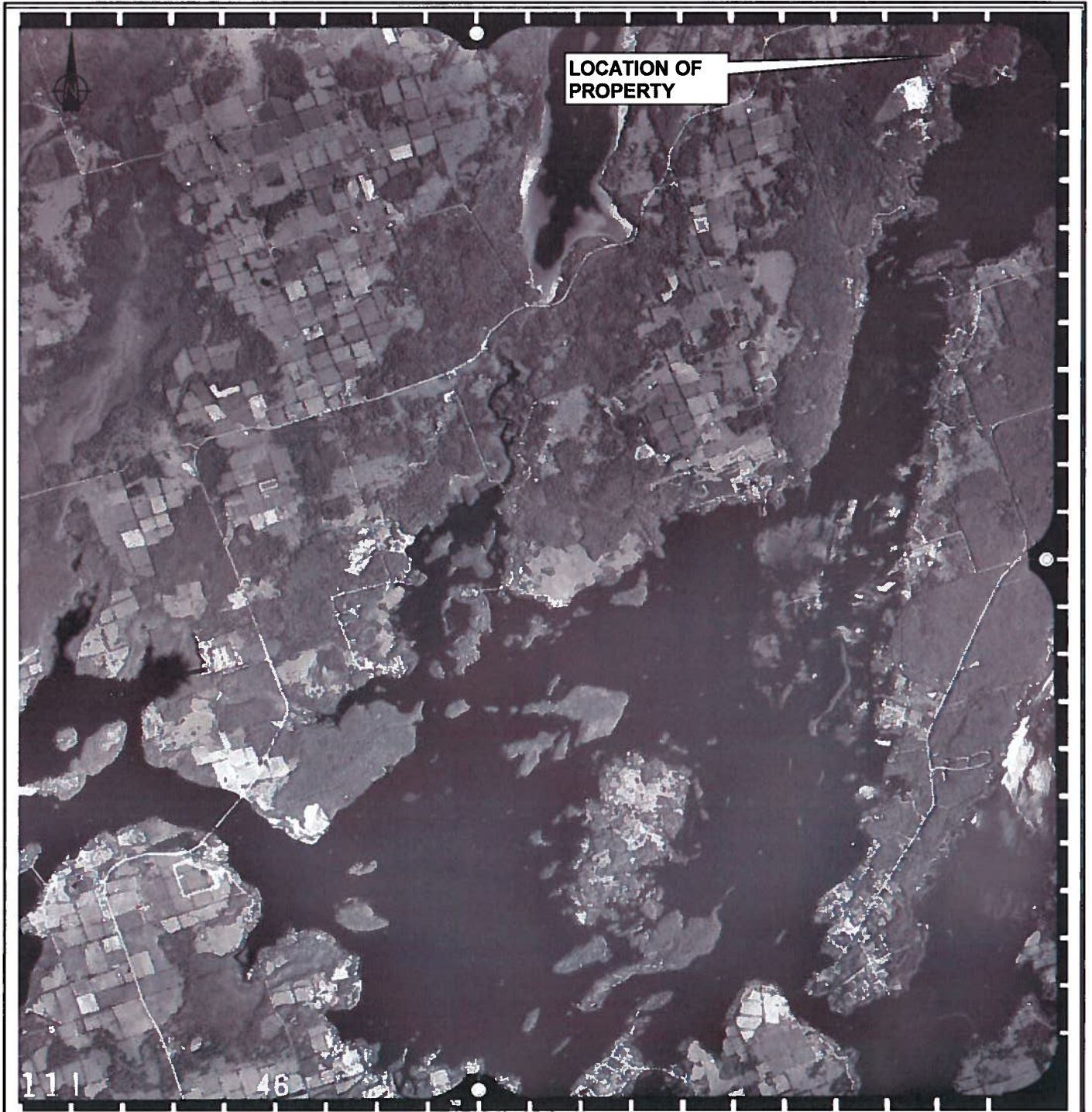


**Geo-Logic Inc.**

**G024361E1**

**C-2**





**AERIAL PHOTOGRAPHY - 1987**

*Phase One Environmental Site Assessment*

*Granite Ridge Estates*

*Township Galway-Cavendish and Harvey*

*Buckhorn, Ontario*

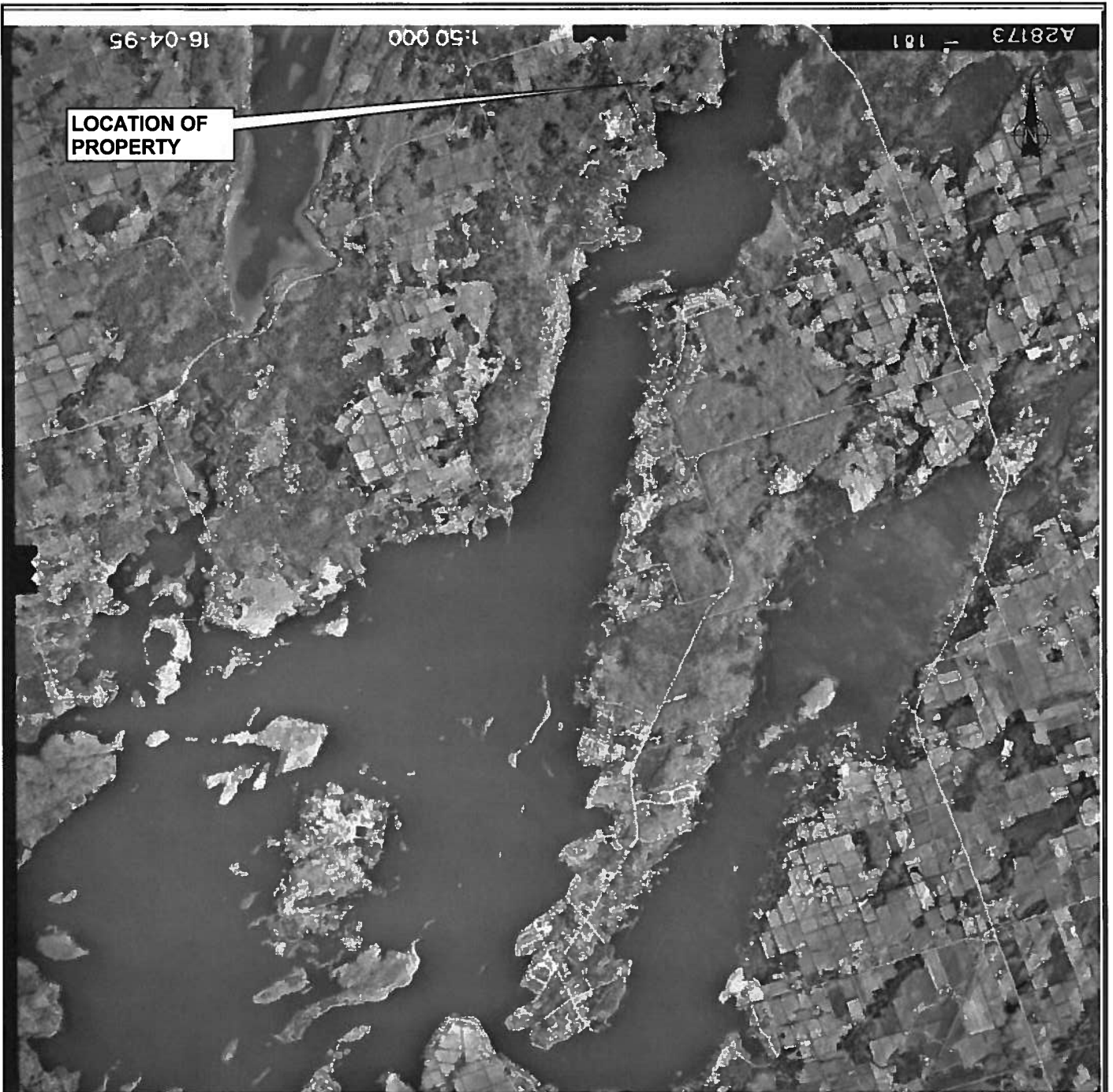
*Scale 1:50000*



Geo-Logic Inc.  
G024361E1

C-3





**AERIAL PHOTOGRAPHY - 1995**

*Phase One Environmental Site Assessment*

*Granite Ridge Estates*

*Township Galway-Cavendish and Harvey*

*Buckhorn, Ontario*

*Scale: 1:50,000*



**Geo-Logic Inc.**  
**G024361E1**

**C-4**



**AERIAL PHOTOGRAPHY - 2012**

*Phase One Environmental Site Assessment*

*Granite Ridge Estates*

*Township Galway-Cavendish and Harvey*

*Buckhorn, Ontario*

*Scale - Refer to Scale Bar*



Geo-Logic Inc.  
G024361E1

C-5

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# **APPENDIX D**

## **PROPERTY PHOTOGRAPHS**

**GEO-LOGIC INC.**

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G024361E1 – Appendix D: Property Photos – Part Lots 8 and 9, Conc 9 Galway-Cavendish and Harvey, Peterborough County, ON

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**Photo 1:** Looking southeast



**Photo 2:** Looking east from center of Property



**Photo 3:** Looking east from south-west corner of Property.



**Photo 4:** Looking west from east side of Property.





**Photo 5:** Looking south from near central area of Property.



**Photo 6:** Area of brush and grass clippings looking north from eastern area of Property.



**Photo 7: Looking West (2010)**



**Photo 8: Looking South at Pond (2010)**

# **APPENDIX E**

## **QUALIFICATIONS OF SITE ASSESSORS**



**Nyle C. McIlveen, P.Eng.****Senior Engineer/Hydrogeologist****Education**

B.A. in Life Sciences  
Queens University, Kingston, Ontario, 1982

B.Sc. in Civil Engineering  
Queens University, Kingston, Ontario, 1985

**Past and Present Professional Affiliations**

Registered Professional Engineer, Province of Ontario  
Association of Groundwater Scientists and Engineers  
Canadian Geotechnical Society  
Canadian and Ontario Water Well Associations  
Advisory Committee, Sir Sandford Fleming College  
Past Chairman PEO, Peterborough Chapter

**Employment History**

2006 to present	Geo-Logic Inc. a Member Company of the Inspeccol and CRA Family of Companies Peterborough, Ontario Vice President and Senior Engineer
1989 to 2006	Geo-Logic Inc. Peterborough, Ontario Vice President and Project Engineer
1986 to 1989	Gibson & Associates Ltd. Bowmanville, Ontario Hydrogeologist and Project Engineer
1986	Hoddenbagh, Horton & Associates Whitby, Ontario Subdivision Design Engineer and Inspector
1985 to 1986	Public Works, City of Oshawa Oshawa, Ontario Material Inspector

**Specialized Academic Curriculum****Chemical Water Quality Interpretation**

Mann Aqua Laboratories Limited, November 22, 23, 1989

**Shoring and Underpinning for Deep Excavation**

Technical University of Nova Scotia, 1989 (1.7 C.E.U.)

**Analysis and Design Aquifer Tests**

National Water Well Association, Columbus, Ohio, 1990 (2.4 C.E.U.)

**Septic Systems and Groundwater Conference**

Waterloo Centre for Groundwater Research, October 5, 1990

**Environmental Compliance in Ontario**

Peterborough Chapter of the P.E.O., March, 1991

**Environmental Property Assessments**

National Water Well Association, Philadelphia, 1991 (1.2 C.E.U.)

**Theory and Practice of Groundwater Monitoring and Sampling**

National Water Well Association, Pittsburgh, 1991 (1.7 C.E.U.)

**Design, Construction and Inspection of Septic Beds**

University of Guelph, 1991 (1.5 C.E.U.)

**Landfills and Groundwater Quality Protection**

National Water Well Association, San Francisco, 1991 (1.2 C.E.U.)

**Sixth National Symposium on Individual Small Community Sewage Systems**

American Society of Engineers, Chicago, 1992

**Focus Conference on Eastern Regional Groundwater Issues**

National Water Well Association, Boston, 1992

**Assessment and Remediation of Subsurface Petroleum Hydrocarbon Releases**

Environmental Education Enterprises, Orlando, 1993 (2.4 C.E.U.)

**Ground Modification**

Hayward Baker, Toronto, March, 1994

**Environmental Technology Program**

Waterloo Centre for Groundwater Research, June, 1994

**Provided Environmental Assessment Course from a Purchaser's perspective**

Peterborough Real-Estate Board, 1999

Environmental Assessment Course from a lender's perspective  
Financial Dealers Association Oshawa, 2000

Oil Tank Spill and Remediation Seminar  
Peterborough Insurance Dealers Association, 2000

Ministry of Environment Implementation Seminar Regulation 459  
MOE Oshawa, March 2001

Ground Water Disinfection Treatment Seminar  
RCAN Technologies, February 2002

Geotechnical Design Meeting and Conference for Consultants and staff  
Ministry of Transportation, North Bay, March 2005

Health and Safety Certification – Occupational Health and Safety Act  
HRSC Group Peterborough, January 2008

### **Project Experience**

Mr. McIlveen has over 25 years of practical geotechnical, material testing and environmental experience throughout Ontario and Northern Ontario. He is a managing partner of Geo-Logic Inc., an affiliate company of Conestoga-Rovers & Associate, with offices in Peterborough and Pembroke Ontario. Mr. McIlveen has carried out a variety of tile bed design reports (all phases including investigation, implementation, and report preparation), construction management, environmental projects (Phase One and Two Assessments and Remediation) for large private corporations as well as hydrogeological (water supply) projects for various municipal governments and private/industrial sector clients. Mr. McIlveen has had experience doing geotechnical work including highway and road structure and foundation design for numerous Ministry of Transport of Ontario (MTO) projects. Conducted numerous environment site assessments and supervised decommissioning and clean-up of project sites contaminated by prior uses. He has worked on a wide range of different projects within both the private and public sectors.

He has conducted geotechnical investigations for foundations, load design, slope stability, tailings dam construction, gravel pit assessments and large tile bed design. Mr. McIlveen has experience in a wide range of soil and rock testing including laboratory analyses and in-situ instrumentation. In addition, extensive experience has been obtained in dam design and construction relating to tailings containment for numerous mining operations in Northern Ontario. The experience is comprised of both office engineering analyses and in-situ supervision during the construction phase. Material testing and inspection experience includes: caisson and pile installation, foundation construction, and a broad work base regarding the use of concrete, aggregate and asphalt.

Oversees on-site construction supervision and quality control services offered by Geo-Logic Inc. concerning asphalt, soils, concrete, masonry, aggregates, roofing and structural steel. Has acquired a reputation for on-site problem solving and reporting on projects in a

clear and concise manner. Regularly attends project site meetings on behalf of the client. Has worked on projects for a wide range of clients from both the private, insurance and public sectors. Has provided expert testimony before environmental appeal hearings and OMB hearings.

Has experience organizing and implemented numerous highway pavement design investigations including soil investigation, asphalt coring program, crossfall surveys, rut surveys, and drainage survey. Responsibilities also included the preparation of the Pavement Design Report in the MTO format, including data compilation, providing design options and treatments, 30-year life cycle analysis, and safety analysis. He has experience in all aspects of soil, rock and construction materials testing including laboratory analysis and in-situ instrumentation.

Has performed quality control functions including role of auditor for Geo-Logic's contract as MTO Eastern Regional QA consultant. Has developed QA/QC plans accepted by independent consultants and the MTO for Pavement design Projects in Northern, Northwestern and Eastern Ontario. Extensive knowledge of laboratory and field testing protocols and methods used in the road construction industry (ASTM, AASHTO, MTO LS, CSA).

Conducted numerous environment site assessments and supervised decommissioning and clean-up of project sites contaminated by prior uses. This included co-ordination, data review and report preparation for land transfer and decommissioning. Recent studies include gas stations, agricultural co-op facilities, fuel depots, lagoons, scrap yards, abandoned and recent landfill operations and a variety of industrial and commercial developments. Regularly attends public meetings and environmental appeal hearings on behalf of clients. Has worked on wide range of different projects with both private and public sectors.

Designed, organized and implemented numerous groundwater studies including hydrogeologic assessments, site evaluations, groundwater impact analyses, in-situ testing, instrumentation, pump testing, and well construction supervision. The studies have been carried out on a broad spectrum of projects including malls, condominiums, restaurants, schools, subdivisions, and other commercial/industrial developments. In addition, experience has been gained in the evaluation of municipal water supply systems. Has developed extensive groundwater monitoring programs and assessments for sewer construction, protection of communal water supplies and individual wells.

As part of his duties with Geo-Logic Inc. had supervised the operation of our North Bay, Gravenhurst, and Parry Sound offices. This includes the area supervision of Simcoe County and the Districts of North Bay, Parry Sound and Muskoka for the Ministry of Environmental and Energy (M.O.E.E.) Part VIII contract. Responsibilities include the inspection of properties, issuance of approvals for waste disposal systems, inspection of large tile bed systems and complaint investigations. The contract included the evaluation and application of policies for the M.O.E.E. including B-7 (formerly 15-08) in this area. As part of his duties, Mr. McIlveen was a Provincial officer designated under Part VIII of the Environmental Protection Act with the M.O.E.E.

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**Robert Neck, M.Eng.****Project Manager****Education**

M.Sc. (Eng.), Civil Engineering, University of Waterloo, 2005.  
Post-graduate Diploma, Environmental Engineering, Conestoga College, 1998  
B.Sc. (Environmental), Earth and Atmosphere Science, University of Guelph, 1997

**Specialized Certifications**

St. John Ambulance, Standard First Aid with CPR Level A, May 2010  
Inspec-Sol Health and Safety Training, May 2010  
WSIB Joint Health and Safety Management Chair and Committee Certified Member  
40-Hour OSHA Health and Safety Training (as per OSHA 29 CFR 1910.120), 1998  
Annual Hazwoper re-certification, 1999 through 2012  
Geo-Logic Company Security Officer, 2011  
Training courses through employee training programs (Construction, Hazardous Waste, Subcontractor Management, WHMIS, fall protection, negotiation training, confined space training etc.)

**Employment**

July 2008 – present    Geo-Logic Inc., a member company of Inspec-Sol and Conestoga Rovers Association (CRA) family of companies  
Peterborough, Ontario  
Project Manager

1998 - 2008            CH2M HILL  
Kitchener-Waterloo, Ontario  
Staff scientist

**Project Experience**

Mr. Neck has over fourteen years of experience in environmental consulting and is experienced liaising with clients and regulatory agencies as well as experienced in site management, project management, report writing, and remedial implementation. Has an educational background in the fields of environmental science and engineering with hands-on experience in environmental engineering applications. Actively involved in environmental site assessment (ESA) studies throughout Ontario. ESA experience has included a wide range of land use using protocol documented by ASTM, CSA and U.S. EPA. The assessments have included Phase One and Two programs and Records of Site Condition. Experienced in remedial activities including as project

manager of industrial sites to clean up chlorinated organics, PCBs, petroleum hydrocarbons and metals contaminating soil and groundwater.

Has worked on wide range of hydrogeologic assessments and investigations. As such, practical experience has been gained in water well sampling, pumping tests, water balance calculations and nitrate impact assessments. Experienced in Permit to Take Water and Certificate of Approval applications including CofA's for septic systems and pump and treat systems. Has designed, organized and implemented numerous groundwater studies including hydrogeologic assessments, site evaluations, groundwater impact analyses, in-situ testing and pump testing. The studies have been carried out on a broad spectrum of projects including subdivisions, restaurants, schools, and other commercial/industrial developments. In addition, experience has been gained in the evaluation of municipal water supply systems. Has developed groundwater monitoring programs and assessments for sewer construction, protection of communal water supplies and individual wells.

In the field, experienced in directing and supervising environmental investigations and field exploration programs, including supervision of drilling and construction contractors that utilize test pitting, drilling, and remedial activities. Experienced in overburden and bedrock drilling. Additional experience includes assessments for the decommissioning of contaminated sites and detailed monitoring programs at closed landfill sites.

Regularly attends public meetings on behalf of clients. Mr. Neck has worked on wide range of different projects within both the private and public sectors.