

**HYDROGEOLOGICAL INVESTIGATION
10850 CONCESSION ROAD 4
UXBRIDGE, ONTARIO**

Prepared for:

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Project: SP21-981-00
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1.0. INTRODUCTION AND BACKGROUND

Sirati & Partners (SIRATI) was retained by Jason and Henry Eng c/o Steven Pham (the Client) to conduct a Hydrogeological Investigation for a 2-hectare (5.0 acre) parcel of land situated within the property located at 10850 Concession Road 4, Uxbridge, Ontario (the Site). The site is currently used for soil mixing operation that comprises approximately a 2-hectare (5.0 acre) parcel of land situated within the property located at 10850 Concession Road 4, Uxbridge (hereinafter referred to as the "Site"). The approximate site location is presented on Figure 1-1.

The Site is currently being used as a 'composting facility', where imported agricultural waste (manure and vegetable matter) and imported excess soils (topsoil and inorganic soil materials) for the purpose of composting, mixing/blending or 'organic soil conditioning' is occurring. The composted material is exported and delivered to local farms, greenhouses and a limited number of garden centers.

1.1 Objective

This hydrogeological investigation is intended to support the property rezoning application and potentially an Official Plan Amendment. No official plan amendment was presented to SIRATI and therefore, the hydrogeological investigation presents the existing hydrogeological conditions of the Site which can be used in support of determining potential changes in the land use in future, if any.

1.2 Scope of Work

This hydrogeological investigation was carried out consisting of the following scope of work:

- **Review of available background information:** a review of available geological and hydrogeological information for the Site and surrounding areas was conducted to understand the regional geological and hydrogeological settings.
- **Review of available investigation reports:** a review of available subsurface investigation reports completed for the Site to understand the soil and groundwater conditions of the Site.
- **Site inspection:** an inspection of the Site to review existing site conditions including identification of any hydrogeological features such as significant areas of potential groundwater recharge or areas of groundwater discharge.
- **Completion of Boreholes/Monitoring Wells:** boreholes and monitoring wells were completed at the Site to obtain the information of soil and groundwater at the Site.

- **Groundwater monitoring:** Groundwater levels were measured in the monitoring wells installed at the Site to obtain the groundwater level conditions in the site area for interpretation of groundwater flow directions.
- **In-situ hydraulic conductivity tests:** In-situ hydraulic conductivity tests (or single well response tests) in the selected existing monitoring wells to estimate the hydraulic conductivity of the underlying soils.
- **Data processing and report preparation:** the data obtained from this hydrogeological investigation was reviewed and processed, and a report was prepared summarizing the results and findings of the investigation.

2.0. SITE DEVELOPMENT PLAN

The Site is undergoing a rezoning application and no development plan was available at the time of preparing this report.

3.0. ENVIRONMENTAL FEATURES

To assess environmental features, the databases maintained by the Ministry of Natural Resources and Forestry (MNRF), the Ministry of Environment, Conservation and Parks (MECP), and the Toronto and Lake Simcoe Region Conservation Authority (LSRCA) were reviewed.

Based on the data reviewed, the Site as shown on Figure 3-1 is located within the Pefferlaw River subwatershed which is under primary Watershed Great Lake – St. Lawrence River. The Pefferlaw River subwatershed is approximately 425 km² in area, located on the eastern side of the Lake Simcoe watershed. It lies almost entirely within the Regional Municipality of Durham, with a small portion in York Regio the Pefferlaw River is a large subwatershed draining into the eastern portion of Lake Simcoe

As shown on Figure 3-2 (Natural Heritage Map), the Site is not located in any of a provincial park, conservation reserve, or an area of natural heritage and scientific interest (ANSI). The Site is located in wetland, woodland, and Natural Heritage System. The Site is not part of an Oak Ridges Moraine plan area or a Niagara Escarpment area. Figure 3-3

The Site is located within Lake Simcoe and Couchiching / Black River Source Protection Area but not in any wellhead protection area (WHPA). The Site is not located in an area with Highly Vulnerable Aquifer (HVA. In addition, any part of the Site is not located in Intake Protection Zone 1 and 2 (IPZ-1, IPZ-2).

4.0. PHYSICAL SETTING

4.1 Topography and Drainage

The ground surface in the site area generally slopes towards northeast, with the elevations at the Site ranging from approximately 235 m above sea level (mASL) to 242 mASL (as shown on Figure 4-1).

Based on review of the database maintained by the LSRCA, the Site is located in the Pefferlaw River subwatershed. The Pefferlaw River with branches or tributaries mainly flowing northly drains into Lake Simcoe at the location approximately 23.0 km North -Northeast of the Site.

No open water bodies are present at the Site. The nearest water body is the west Highland Creek Branch, located approximately 5.0 km to the northeast of the site.

4.2 Physiography

According to Chapman and Putnam (1984), and the Physiography Map of Southern Ontario (Map P. 2715, Scale 1: 600,000) prepared by the Ontario Department of Mines and Northern Affairs, the Site is located within the physiographical region of Till Plain (drumlinized). Drumlins are oval-shaped hills, largely composed of glacial drift, formed beneath a glacier or ice sheet and aligned in the direction of ice flow. Figure 4-2 shows the Site located within the Till Plain.

4.3 Overburden

According to the Map of Quaternary Geology of Ontario (Map 2556, Scale 1:1,000,000) prepared by the Ontario Department of Northern Development and Mines and database maintained by Ontario Geological Survey, the Site is located in a Quaternary with undifferentiated sandy silt to silt matrix, with glaciomarine and marine deposits which include sand, gravelly sand area.

Figure 4-3 shows that the Site is covered by this overburden.

4.4 Bedrock

According to the Map of Bedrock Geology of Ontario (Map 2544, Scale 1:1,000,000) prepared by the Ontario Department of Northern Development and Mines and the data from Ontario Geological Survey, the Site (shown on Figure 4-4) is underlain by the middle Ordovician Ottawa Gp, Simcoe Gp and Shadow

Lake Formation which are consisting of Limestone, Dolostone, Shale and Sandstone. Georgian Bay Formation/Blue Mountain Formation/Billings Formation/Collingwood Member/Eastview Member consisting of shale, limestone, dolostone and siltstone.

4.5 Regional Hydrogeology

Regional hydrogeology was reviewed based on the information obtained from the MECP's online water well data system. A total of fifteen (18) records were found within 500 m from the Site, which are shown on Figure 4-5 summary of the recorded water wells is presented in the table below.

Based on the soil stratigraphy recorded for the water wells, bedrock was encountered at the maximum depth of 129 feet (or approximately 39.3 m) below the ground surface. The native soil encountered primarily consisted of clay to silty clay and sand, gravelly sand, and silt. Groundwater was encountered at depths between 2.5 to 40 mbgs and all the wells were completed water wells.

5.0. FIELD WORK METHODOLOGY

5.1 Borehole Drilling and Monitoring Well Installation

Borehole drillings and well installations were carried out at the Site, between December 6th and December 8th, 2021, as part of Hydrogeological investigation conducted by SIRATI. A total of Five (5) boreholes (BH 01 through BH 05) were advanced to depths ranging from 9.4 mbgs to 11.3 mbgs. At all boreholes monitoring wells identified as BH/MW-01, BH/MW-02, BH/MW-03, BH/M-04 and BH/MW-05 were installed. The monitoring wells consisted of 50 mm diameter, 3.0 m long, PVC screens. The approximate borehole and monitoring well locations are shown in Figure 5-1. Details of the boreholes and monitoring wells are included in borehole logs in Appendix B.

Table 5-1: Well Construction Details

| Monitoring Well | Borehole Depth (mbgs) | Monitoring Well Depth (mbgs) | Screen Depth (mbgs) | Screened Material Type |
|-----------------|-----------------------|------------------------------|---------------------|---|
| BH/MW-01 | 9.8 | 9.1 | 6.1 ~ 9.1 | Sandy Clayey Silt, trace gravel |
| BH/MW-02 | 9.5 | 9.1 | 6.1 ~ 9.1 | Sandy Silty Clay, some gravel |
| BH/MW-03 | 9.4 | 9.1 | 6.1 ~ 9.1 | Clayey Silt to Silty Clay, trace gravel |

| Monitoring Well | Borehole Depth (mbgs) | Monitoring Well Depth (mbgs) | Screen Depth (mbgs) | Screened Material Type |
|-----------------|-----------------------|------------------------------|---------------------|---|
| BH/MW-04 | 9.8 | 9.1 | 6.1 ~ 9.1 | Clayey Silt to Silty Clay, trace gravel |
| BH/MW-05 | 11.3 | 10.7 | 7.7 ~ 10.7 | Clayey Silt to Silty Clay, trace gravel |

5.2 Groundwater Monitoring and Elevation Survey

After the well installation, groundwater levels were measured in the new monitoring wells. In addition, the location and elevation survey were conducted using a GPS unit on the monitoring wells installed at the Site.

6.0. SUMMARIZED SITE CONDITIONS

6.1 Soil Stratigraphy

The soils encountered at the borehole locations generally consisted of fill and organics materials underlain by native soils. The fill materials were found to consist mainly of silty clay, clayey silt and sand, trace to some gravel. The native soils mainly consisted of cohesion soil clayey silt to silty clay, and cohesionless soil, sand to silty sand, locally with silt.

The main soil types encountered at the Site maybe classified as:

- Fill materials: encountered in all locations, mainly consisting of silty clay, clayey silt and sand, trace to some gravel extending to a maximum depth of 1.5 mbgs.
- Sand: found in BH/MW-01, BH/MW-02, BH/MW-04 and BH/MW-5 consist of trace to some silt, trace gravel extending to ranging from 0.6 mbgs to 2.9 mbgs.
- Sand and Silt found in BH/MW-03 and BH/MW-05 consist of trace to some clay, trace gravel, ranging from 3.0 to 7.6m.
- Sandy clayey silt, sandy silty clay, and clayey silt to silty clay: encountered in all locations, mainly consisting of sandy clayey silt to sandy silty clay, trace gravel extending to ranging from 1.5 mbgs to 9.4 mbgs.
- Silt to sandy silt: encountered in BH/MW02, BH/MW04 and BH/MW05 locations consist of trace clay, trace gravel, extending ranging from 9.1 mbgs to 11.3 mbgs.

The details of the soil descriptions are presented in the Borehole Logs in Appendix C. A geological cross-section profile is presented in Figure 7-1.

6.2 Groundwater Conditions

Groundwater conditions were observed during the borehole drilling. Wet soil was observed in the lower cohesion soils from all the boreholes including BH/MW-01 to BH/MW-05. Moreover, wet soil was observed in the upper cohesionless soils from BH/MW-01, BH/MW-02, BH/MW-04 and BH/MW-05 at the depths ranging from 0.8 mbgs at BH1 to 2.9 mbgs at BH/MW02.

6.2.1 Groundwater Levels and Elevations

Groundwater monitoring was conducted in the monitoring wells installed at the Site. Groundwater levels were measured in all the monitoring wells in September 14 and 22, 2021. The measured and recorded groundwater levels and elevation are presented in Table 6-1 below and in the Figure 6-1. All monitoring wells are under an Artesian aquifer except BH/MW-01. It should be noted that the negative sign for the depth to groundwater in Table 6-1 indicates the upward pressure of the groundwater in the monitoring well. The groundwater pressure may be surpassing the top of riser of the monitoring wells and therefore may be higher than what is indicated in Table 6-1.

Table 6-1: Measured Groundwater Levels

| Monitoring Well | Ground Elevation (mASL) | Screen or Well Depth (mbgs) | Screened Soil Type | Date of Monitoring: September 14, 2021 | | Date of Monitoring: September 22, 2021 | |
|-----------------|-------------------------|-----------------------------|-------------------------|--|-------------------------------|--|-------------------------------|
| | | | | Depth to Ground water (mbgs) | Ground Water Elevation (mASL) | Depth to Ground Water (mbgs) | Ground Water Elevation (mASL) |
| BH/MW-01 | 241.35 | 6.1 - 9.1 | Sandy Clayey Silt | 0.7 | 240.66 | 0.9 | 240.49 |
| BH/MW-02 | 238.50 | 6.1 - 9.1 | Sandy Clayey Silt | -0.8 | 239.31 | -0.8 | 239.31 |
| BH/MW-03 | 239.44 | 6.1 - 9.1 | Clayey Silt, Silty Clay | -0.9 | 240.29 | -0.9 | 240.29 |
| BH/MW-04 | 238.92 | 6.1 - 9.1 | Clayey Silt, Silty Clay | -0.8 | 239.76 | -0.8 | 239.76 |
| BH/MW-05 | 242.00 | 7.7 - 10.7 | Clayey Silt, Silty Clay | -0.9 | 242.91 | -0.9 | 242.91 |

Notes: mAMSL - metres above mean sea level; mbgs - metres below ground surface

6.2.2 Groundwater Flow Direction and Hydraulic Gradients

The shallow groundwater flow direction was inferred to be towards southwest, similar to the ground sloping direction. However, given the artesian condition of at least portion of the underlying aquifer, some local variations in groundwater flow direction might occur.

6.3 Estimated Hydraulic Conductivity (K-Value)

The hydraulic conductivity (K-value) of the soils was estimated based on the results obtained from the single well response test or slug test carried out at the Site.

Due to Artesian aquifer at site the slug tests were conducted in just one (1) monitoring wells (BH/MW-01) on December 14, 2021 as part of the hydrogeological study. During the test, a datalogger was placed in the tested monitoring well after the initial water level was measured. Then, a certain amount of water was removed from the test well for a rising head test to create a water level drawdown in the well. The recovery of water level was recorded by the datalogger, and the data was then used for estimating the hydraulic conductivity of the screened soil.

The hydraulic conductivity was estimated utilizing Aqtesolv software with the Hvorslev method. Records of the slug tests and the data processing are provided in Appendix B. The results of the estimated hydraulic conductivity are summarized in Table 6-2.

Table 6-2: Result of Estimated Hydraulic Conductivity as per Slug Test

| Monitoring Well | Hydraulic Conductivity (cm/s) | Tested Soil Type |
|-----------------|-------------------------------|-------------------|
| BH/MW-01 | 4.39×10^{-6} | Sandy Clayey Silt |

As presented above, the estimated hydraulic conductivity is about 4.39×10^{-6} cm/s.

6.4 Estimated Hydraulic Conductivity (Based on Grain Size)

As an alternative, the results of grain size analysis (hydrometer/sieve) were used to estimate the hydraulic conductivity.

For the geotechnical investigation, five (5) representative soil samples (BH/MW-01SS4, BH/MW-02 SS5, BH/MW-03 SS6, BH/MW-04 SS4 and BH/MW-05 SS6) were used for grain size analysis under hydrometer and sieve process. The data for the grain size analysis is included in Borehole Logs in Appendix C, and the hydrometer/sieve analysis results are also provided in Appendix C.

The hydraulic conductivity (K-value) for the soils was estimated using the empirical equations proposed by Allen Hazen ($K = C \cdot D_{10}^2$, where $C = 1$, D_{10} in mm and K in cm/s) or by Julia et al ($K = 2.56 \times 10^{-5} \times e^{(0.0491SA)}$, where SA is sand percentage, K in cm/s). Accordingly, the hydraulic conductivity values were calculated and are presented in Table 6-3 below.

Table 6-3 Hydraulic Conductivity based on Grain Size Distribution

| Soil Sample ID | Depth (mbgs) | Tested Soil Type | Calculation Method | Hydraulic Conductivity (cm/s) |
|----------------|--------------|-------------------|--------------------|-------------------------------|
| BH/MW-01 SS4 | 2.3 ~ 2.9 | Sandy Clayey Silt | Julia et al | 1.00×10^{-4} |
| BH/MW-02 SS5 | 3.1 ~ 3.7 | Sandy Silty Clay | Julia et al | 1.60×10^{-4} |
| BH/MW-03 SS6 | 4.6 ~ 5.1 | Sand and Silt | Julia et al | 1.80×10^{-4} |
| BH/MW-04 SS4 | 2.3 ~ 2.9 | Silty Sand | Julia et al | 6.90×10^{-4} |
| BH/MW-05 SS6 | 4.6 ~ 5.1 | Sand and Silt | Julia et al | 3.10×10^{-4} |

As presented above, the estimated hydraulic conductivity ranged from 1.00×10^{-4} cm/s for clayey silt/silty clay to 6.9×10^{-4} cm/s for sand.

7.0. CONSTRUCTION DEWATERING REQUIREMENTS

Based on the information provided to SIRAT, no development plan is proposed by the Client and the Site is undergoing rezoning application. Therefore, groundwater dewatering due to construction is not applicable to this hydrogeological investigation.

8.0. WATER QUALITY ASSESSMENT

Groundwater samples were taken in unfiltered (BH/MW-01) on December 14, 2021 and were submitted for chemical analysis in order to assess groundwater quality as per York Region storm Sewer Use By-law. The laboratory analytical results for the analyzed groundwater samples are presented in Appendix D. The chemical results were tabulated in Table 8-1, indicating parameter exceedances in comparison to the guideline values.

Table 8-1 Exceedances York Region Storm Sewer Use By-Laws.

| Sample ID | Filtration | Parameter | Storm Sewer Guideline | Measured Concentration |
|-----------|------------|------------------------|-----------------------|------------------------|
| | | | Value (mg/L) | (mg/L) |
| BH/MW-05 | Unfiltered | Total Suspended Solids | 15 | <u>430</u> |

Based on the results of the chemical analysis, the following comments on the groundwater quality could be made.

- Exceedances of the York Region Storm sewer standards were found in the sampling event for total suspended solids (TSS) in the unfiltered groundwater samples.

9.0 WATER BALANCE (PRELIMINARY)

A water balance was not deemed required at this stage, as no development plan is proposed for the Site.

10.0 CONCLUSIONS AND RECOMMENDATIONS

This Hydrogeological Investigation report was prepared by Sirati & Partners in support of a rezoning application for the Site located within the property at 10850 Concession Road 4, Uxbridge, Ontario. Based on the hydrogeological investigation conducted on the subject property, the following conclusions and recommendations are presented:

- The Site falls within the Pefferlaw River Subwatershed of Great lakes-St Lawrence Watershed, under the jurisdiction of the Lake Simcoe Region Conservation Authority.
- The Site is located within the physiographical region of Till Plain (drumlinized). Drumlins are oval-shaped hills, largely composed of glacial drift, formed beneath a glacier or ice sheet and aligned in the direction of ice flow. Also, the Site is located in a Quaternary with undifferentiated sandy silt to silt matrix, with glaciomarine and marine deposits which include sand, gravelly sand area.
- The soils encountered at the borehole locations generally consisted of fill and organics materials underlain by native soils. The fill materials were found to consist mainly of silty clay, clayey silt and sand, trace to some gravel. The native soils mainly consisted of cohesion soil clayey silt to silty clay, and cohesionless soil, sand to silty sand, locally with silt. No bedrock was encountered at the maximum depth of 11.3 mbgs.
- The native soils generally include Upper Cohesionless Soils (Sand/Silt), Middle Till Cohesion Soils (Silty Clay to Clayey Silt, Sandy Silty Clay) Deposits, and Lower Cohesionless Soils (Sandy Silt to Silty Sand),
- All monitoring wells are under an Artesian aquifer layer except BH/MW-01. The measured groundwater levels ranged at BH/MW01 from 0.7 mbgs to -0.9 mbgs (i.e. 0.9 above the ground surface) at BH/MW05, and elevations ranged from 240.66 m above sea level (mASL) to 242.91

mASL at BH/MW05. Wet soils were observed in the upper cohesionless soils in which shallower groundwater levels be present. The groundwater flow could be inferred to be in a southeasterly direction, or towards Lake Simcoe.

- The hydraulic conductivity for the screen soils in selected monitoring wells was estimated 4.3×10^{-6} cm/s. Also, hydraulic conductivity derived from grain size analysis (hydrometer/sieve) was estimated to range from 1.0×10^{-4} cm/s to 6.9×10^{-4} cm/s.
- Based on the information provided to SIRAT, no development plan is proposed by the Client and the Site is undergoing rezoning application. Therefore, groundwater dewatering due to construction is not applicable to this hydrogeological investigation.
- A water balance was not deemed required at this stage, as no development plan is proposed for the Site.

Regarding the long-term drainage discharge, it is recommended to consult with the local government and confirm the allowable access to the local sewer system.

11.0. SELECTED BIBLIOGRAPHY

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- MECP Map: Well Records (<https://www.ontario.ca/environment-and-energy/map-well-records>)

12.0. LIMITATIONS AND USE OF THE REPORT

This report was produced by SIRATI for the sole use of the Client for the Site, and may not be relied upon by any other person or entity without the written authorization of SIRATI. The conclusions presented in this report are professional opinions based on the historical and current records search, visual observations and limited information provided by persons knowledgeable about past and current activities on this site. As such, SIRATI cannot be held responsible for environmental conditions at the Property that was not apparent from the available information. No investigation method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level.

Professional judgement was exercised in gathering and analyzing data and formulation of recommendations using current industry guidelines and standards. Similar to all professional persons rendering advice, SIRATI cannot act as absolute insurer of the conclusion we have reached. No additional warranty or representation, expressed or implied, is included or intended in this report other than stated herein the report.

The assessment should not be considered a comprehensive audit that eliminates all risks of encountering environmental problems. The information presented herein this report is primarily based on information collected during the hydrogeological study based on the condition of the Property at the time of site inspection/drilling followed by a review of historical data, as appended to this report.

In assessing the environmental setting of the Property, SIRATI has solely relied upon information supplied by others in good faith and has therefore assumed that the information supplied is factual and accurate. We accept no responsibility for any inaccurate information, misrepresentation or for any deficiency of the information supplied by any third party.

The scope of services performed in the execution of this investigation may not be appropriate to satisfy third parties. SIRATI accepts no responsibility for damages if any, suffered by any third party as a result of decisions made or action taken based on this report. Any use, copying or distribution of the report in whole or in part is not permitted without the express written permission of SIRATI and use of findings, conclusions and recommendations represented in this report, is at the sole risk of third parties.

In the event that during future work new information regarding the environmental/hydrogeological condition of the Property is encountered, or in the event that the outstanding responses from the regulatory agencies indicate outstanding issues on file with respect to the Property, SIRATI should be

notified in order that we may re-evaluate the findings of this assessment and provide amendments, as required.

13.0. SIGNATURES

Should you have any questions regarding the information presented or limitation set in this report, please do not hesitate to contact our office.

Yours truly,

Sirati and Partners Consultants Ltd.



**Reza Khabbazznia, B.Sc., P. Geo.
Hydrogeologist/Project Manager**



**Edwin Safari, Ph. D P. Eng.
Senior Geo-Environmental Engineer**

FIGURES



Zephyr Organics

Zephyr Organics

Concession Rd 4

Concession Rd 4


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North:



Legend:

 Property Boundary

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Site Location Plan

Scale:

As Shown

Project Number:

SP21-981-00

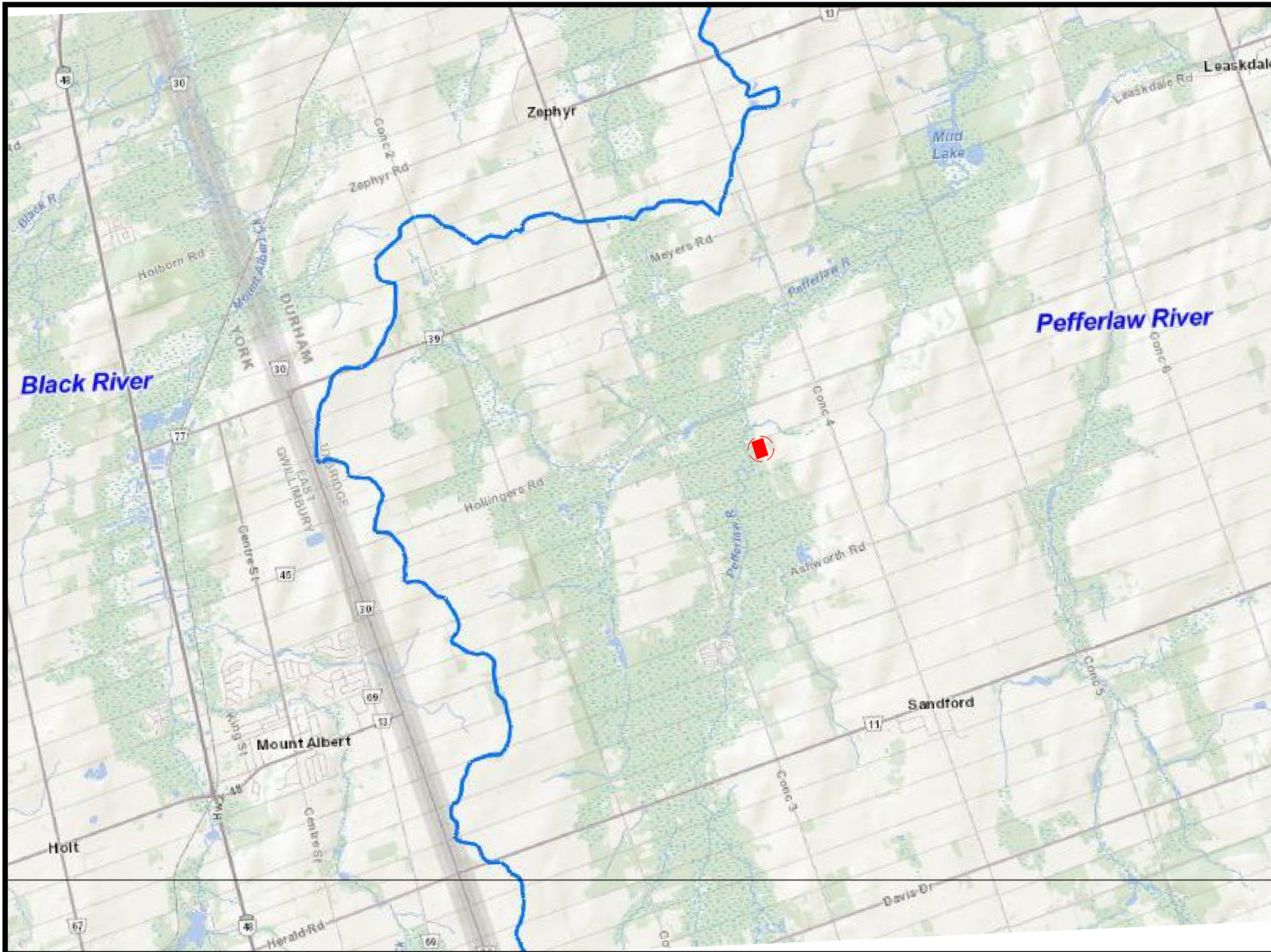
Date:

Dec. 2022

Figure Number:

1-1





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North:



Legend:



Subject Site



Approximate Site Location

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Pefferlaw River Watershed Map

Scale:

As Shown

Project Number:

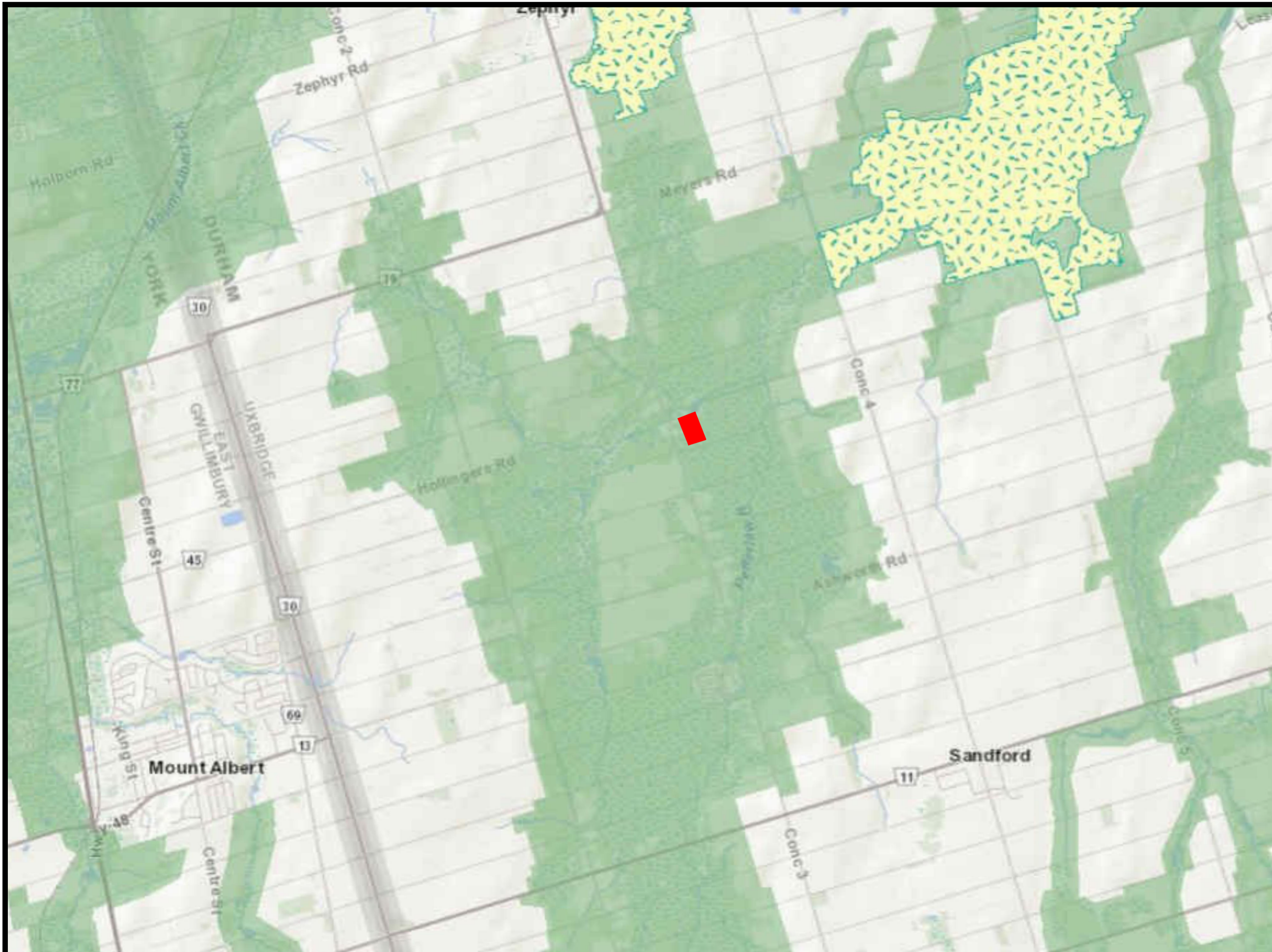
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Figure Number:

3-1



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North:



Legend:



Subject Site

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Key Hydrological and Natural Heritage Features Map

Scale:

As Shown

Project Number:

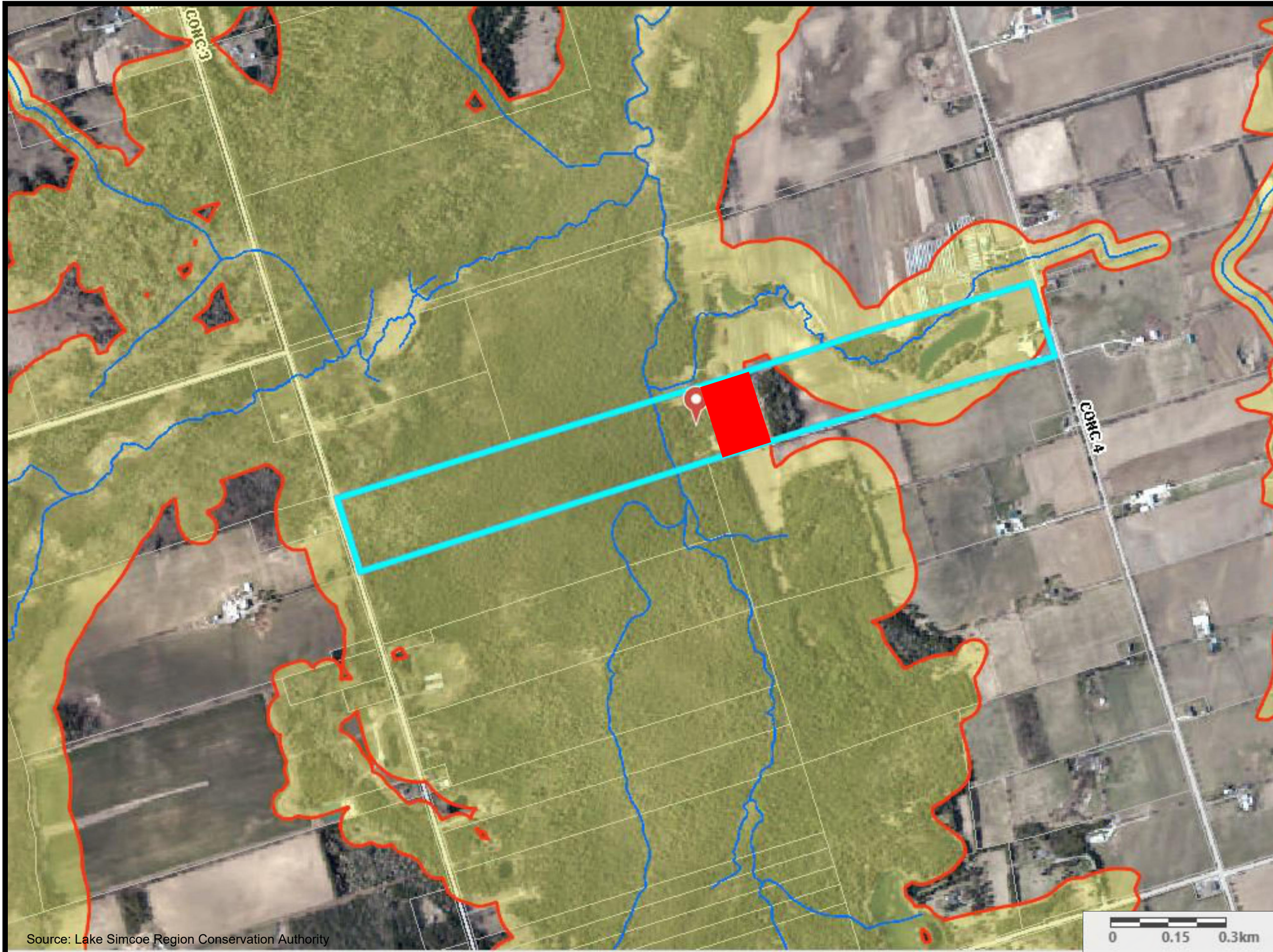
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Date:

Dec. 2022

Figure Number:

3-2



Source: Lake Simcoe Region Conservation Authority

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North:



Legend:

- Subject Site
- Parcel Boundary

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Lake Simcoe Region Conservation Authority
 Regulated Area Map

Scale:

As Shown

Project Number:

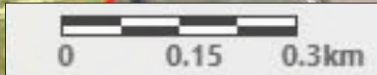
SP21-981-00

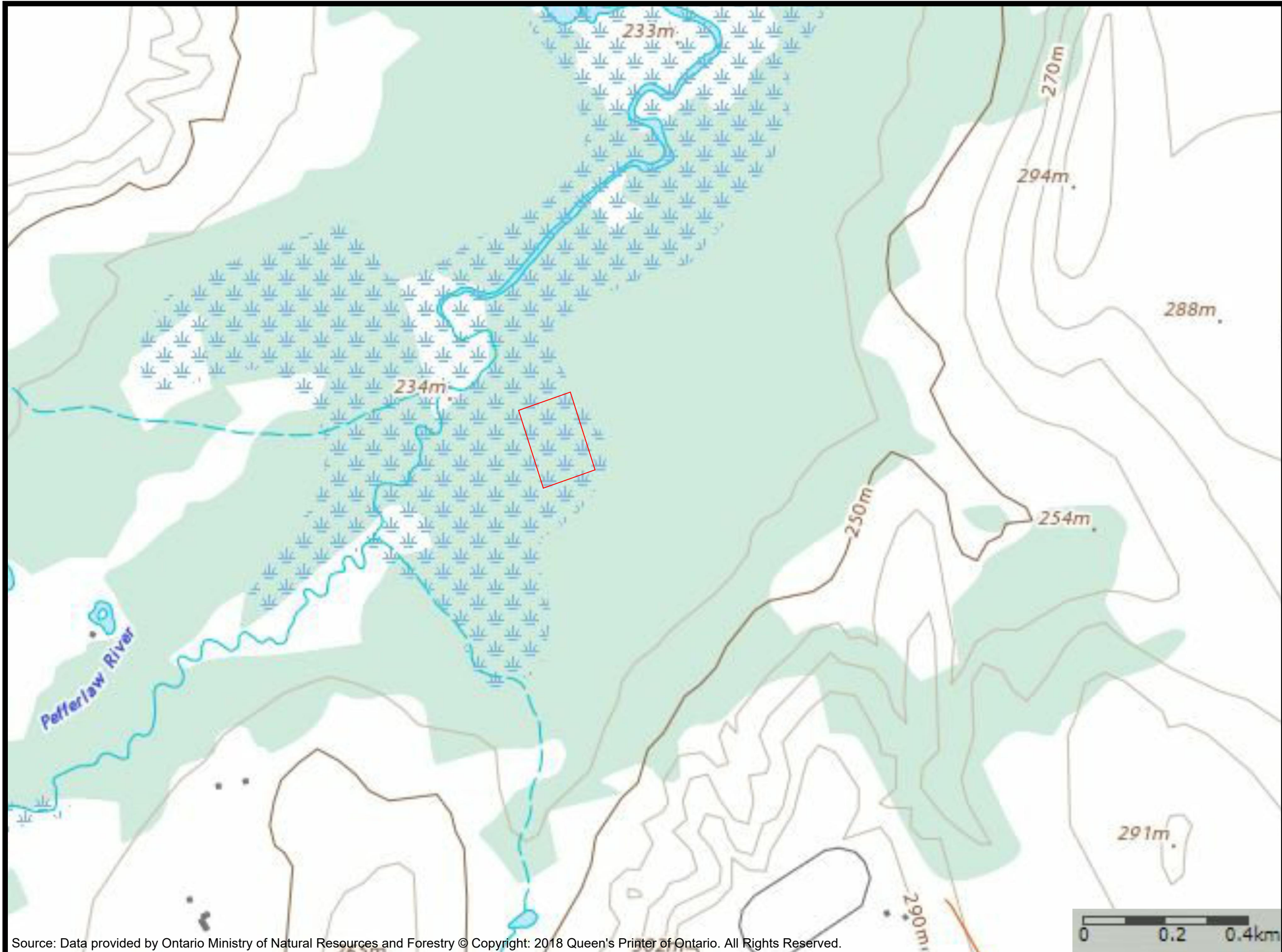
Date:

Dec. 2022

Figure Number:

3-3





SIRATI & PARTNERS

Geotechnical Hydrogeological & Environmental Solutions
 12700- Keele Street
 King City, ON. L7B 1H5
 Phone# 905 833 1582, Fax# 905 833 5360

North:



Legend:

Property Boundary

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Topographic Map

Scale:

As Shown

Project Number:

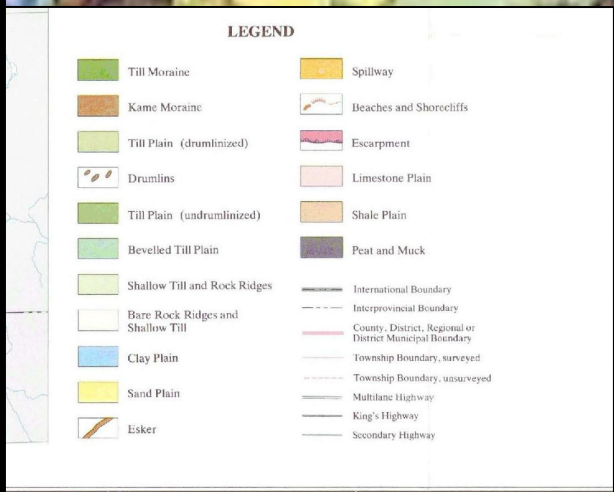
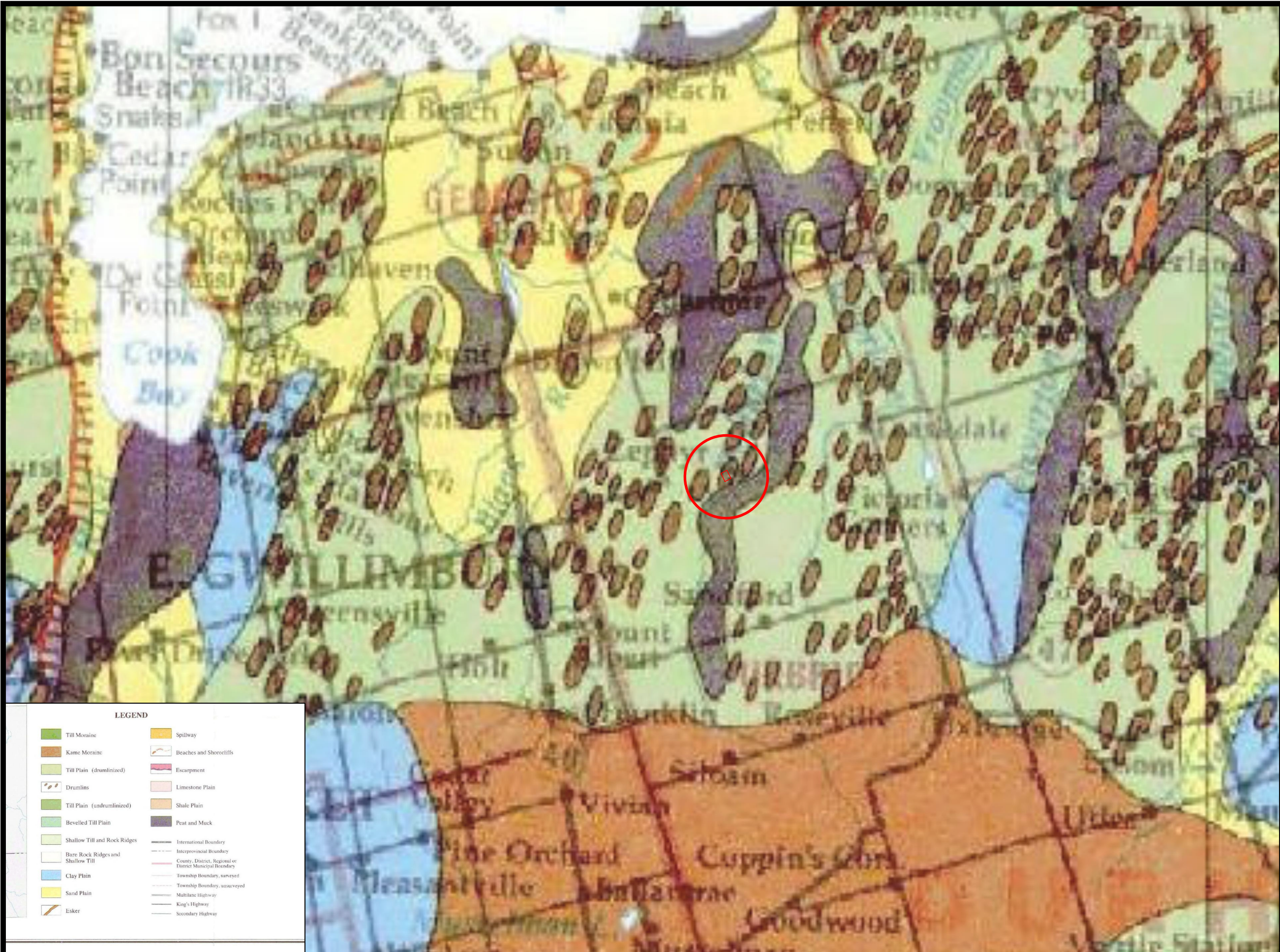
SP21-981-00

Date:

Dec. 2022

Figure Number:

4-1



- Legend:**
- Subject Site
 - Approximate Site Location

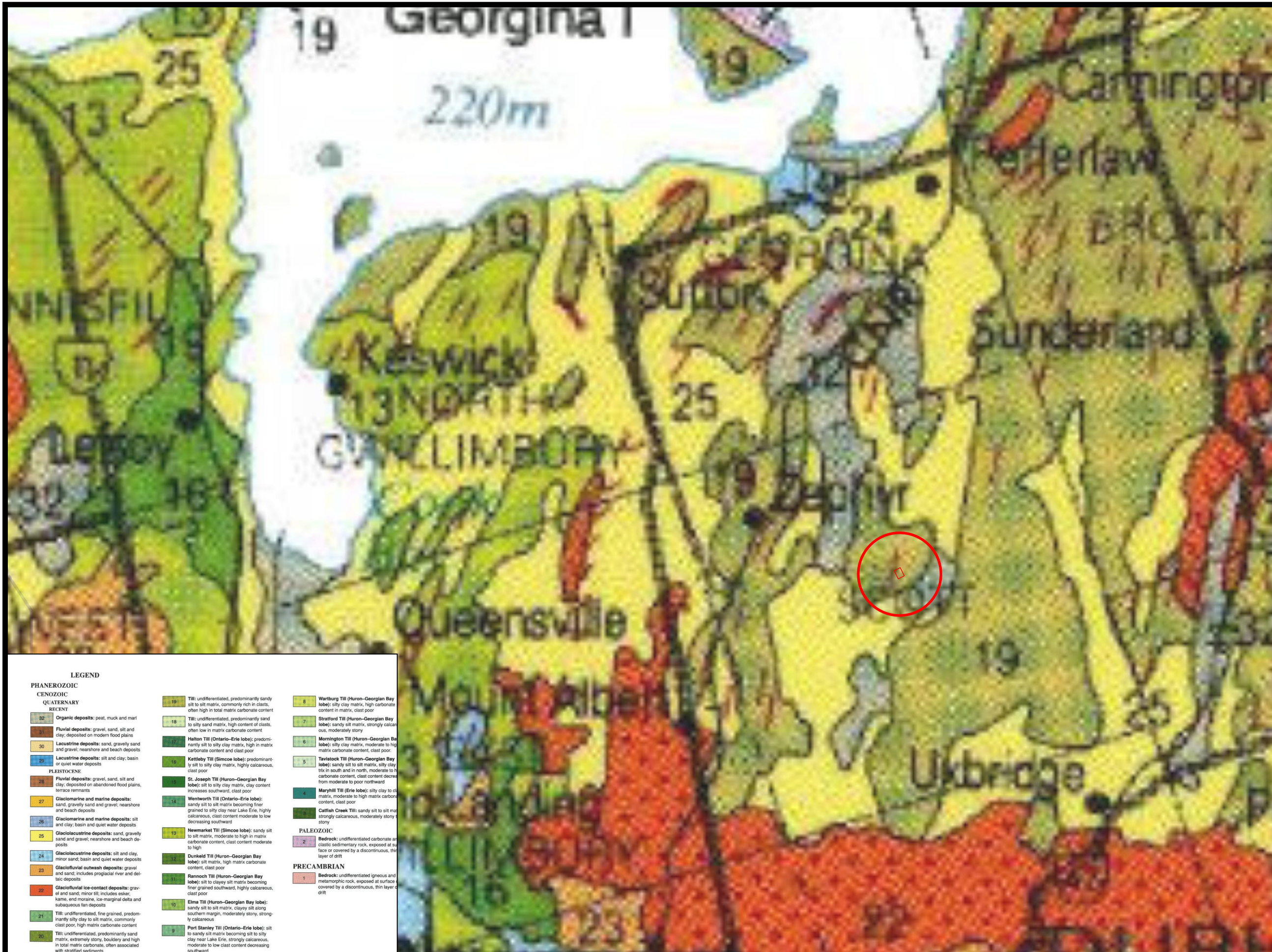
Project Title:
Hydrogeological Investigation

Site Location:
10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:
Physiography Map

| | |
|---------------------------|---------------------------------------|
| Scale: As Shown | Project Number: SP21-981-00 |
|---------------------------|---------------------------------------|

| | |
|---------------------------|------------------------------|
| Date: Dec. 2022 | Figure Number: 4-2 |
|---------------------------|------------------------------|



- Legend:**
- Subject Site
 - Approximate Site Location

Project Title:
 Hydrogeological Investigation

Site Location:
 10850 Concession Rd 4, Uxbridge, Ontario

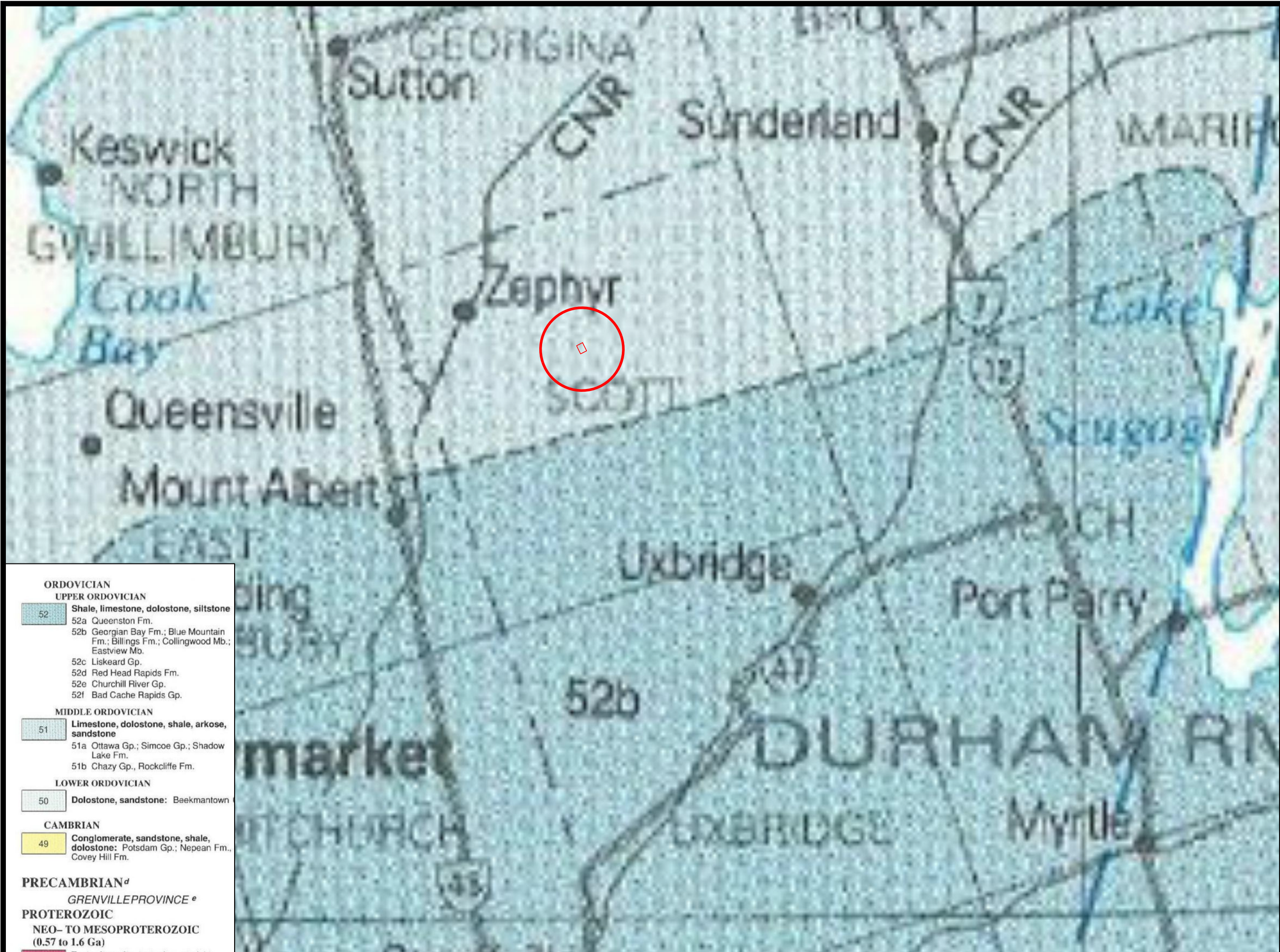
Figure Title:
 Surficial Geology Map

Scale: As Shown
Project Number: SP21-981-00

Date: Dec. 2022
Figure Number: 4-3

LEGEND

| | | | |
|--------------------|---|----|---|
| PHANEROZOIC | | | |
| CENOZOIC | | | |
| QUATERNARY | | | |
| RECENT | | | |
| 32 | Organic deposits: peat, muck and marl | 19 | Till: undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content |
| 31 | Fluvial deposits: gravel, sand, silt and clay; deposited on modern flood plains | 18 | Till: undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content |
| 30 | Lacustrine deposits: sand, gravely sand and gravel; nearshore and beach deposits | 17 | Haltwhire Till (Ontario-Erie lobe): predominantly silty to silty clay matrix, high in matrix carbonate content and clast poor |
| 29 | Lacustrine deposits: silt and clay; basin or quiet water deposits | 16 | Kettleby Till (Simcoe lobe): predominantly silt to silty clay matrix, highly calcareous, clast poor |
| PLEISTOCENE | | | |
| 28 | Fluvial deposits: gravel, sand, silt and clay; deposited on abandoned flood plains, terrace remnants | 15 | St. Joseph Till (Huron-Georgian Bay lobe): silt to silty clay matrix, clay content increases southward, clast poor |
| 27 | Glaciomarine and marine deposits: sand, gravely sand and gravel; nearshore and beach deposits | 14 | Wentworth Till (Ontario-Erie lobe): sandy silt to silt matrix becoming finer grained to silty clay near Lake Erie, highly calcareous, clast content moderate to low decreasing southward |
| 26 | Glaciomarine and marine deposits: silt and clay; basin and quiet water deposits | 13 | Newmarket Till (Simcoe lobe): sandy silt to silt matrix, moderate to high in matrix carbonate content, clast content moderate to high |
| 25 | Glaciolacustrine deposits: sand, gravely sand and gravel; nearshore and beach deposits | 12 | Dunkeld Till (Huron-Georgian Bay lobe): silt matrix, high matrix carbonate content, clast poor |
| 24 | Glaciolacustrine deposits: silt and clay, minor sand; basin and quiet water deposits | 11 | Rannoch Till (Huron-Georgian Bay lobe): silt to clayey silt matrix becoming finer grained southward, highly calcareous, clast poor |
| 23 | Glaciofluvial outwash deposits: gravel and sand; includes proglacial river and deltaic deposits | 10 | Elma Till (Huron-Georgian Bay lobe): sandy silt to silt matrix, clayey silt along southern margin, moderately stony, strongly calcareous |
| 22 | Glaciofluvial ice-contact deposits: gravel and sand; minor till; includes eskers, kames, end moraine, ice-marginal delta and subaqueous fan deposits | 9 | Port Stanley Till (Ontario-Erie lobe): silt to sandy silt matrix becoming silt to silty clay near Lake Erie, strongly calcareous, moderate to low clast content decreasing southward |
| 21 | Till: undifferentiated, fine grained, predominantly clay to silt matrix, commonly clast poor, high matrix carbonate content | 8 | Wartburg Till (Huron-Georgian Bay lobe): silty clay matrix, high carbonate content in matrix, clast poor |
| 20 | Till: undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments | 7 | Stratford Till (Huron-Georgian Bay lobe): sandy silt matrix, strongly calcareous, moderately stony |
| | | 6 | Mornington Till (Huron-Georgian Bay lobe): silty clay matrix, moderate to high matrix carbonate content, clast poor |
| | | 5 | Tavistock Till (Huron-Georgian Bay lobe): sandy silt to silt matrix, silty clay till in south and in north, moderate to high carbonate content, clast content decreases from moderate to poor northward |
| | | 4 | Maryhill Till (Erie lobe): silty clay to clay matrix, moderate to high matrix carbonate content, clast poor |
| | | 3 | Catfish Creek Till: sandy silt to silt matrix, strongly calcareous, moderately stony to stony |
| PALEOZOIC | | | |
| | | 2 | Bedrock: undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift |
| PRECAMBRIAN | | | |
| | | 1 | Bedrock: undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift |



| | |
|---|--|
| ORDOVICIAN | |
| UPPER ORDOVICIAN | |
| 52 | Shale, limestone, dolostone, siltstone |
| 52a | Queenston Fm. |
| 52b | Georgian Bay Fm.; Blue Mountain Fm.; Billings Fm.; Collingwood Mb.; Eastview Mb. |
| 52c | Liskeard Gp. |
| 52d | Red Head Rapids Fm. |
| 52e | Churchill River Gp. |
| 52f | Bad Cache Rapids Gp. |
| MIDDLE ORDOVICIAN | |
| 51 | Limestone, dolostone, shale, arkose, sandstone |
| 51a | Ottawa Gp.; Simcoe Gp.; Shadow Lake Fm. |
| 51b | Chazy Gp., Rockcliffe Fm. |
| LOWER ORDOVICIAN | |
| 50 | Dolostone, sandstone: Beekmantown |
| CAMBRIAN | |
| 49 | Conglomerate, sandstone, shale, dolostone: Potsdam Gp.; Nepean Fm., Covey Hill Fm. |
| PRECAMBRIAN^d | |
| GRENVILLE PROVINCE^e | |
| PROTEROZOIC | |
| NEO- TO MESOPROTEROZOIC (0.57 to 1.6 Ga) | |

SIRATI & PARTNERS

Geotechnical Hydrogeological & Environmental Solutions
 12700- Keele Street
 King City, ON. L7B 1H5
 Phone# 905 833 1582, Fax# 905 833 5360



- Legend:**
- Subject Site
 - Approximate Site Location

Project Title:
Hydrogeological Investigation

Site Location:
10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:
Bedrock Geology Map

| | |
|---------------------------|---------------------------------------|
| Scale: As Shown | Project Number: SP21-981-00 |
|---------------------------|---------------------------------------|

| | |
|---------------------------|------------------------------|
| Date: Dec. 2022 | Figure Number: 4-4 |
|---------------------------|------------------------------|

North:



Legend:



Subject Site



500m Study Area



MECP Well

Zephyr Organic

Hilltop Auto Wreckers & Recycling

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

MECP Water Well Records Map

Scale:

As Shown

Project Number:

SP21-981-00

Date:

Dec. 2022

Figure Number:

4-5



Source: Google Earth Map



SIRATI & PARTNERS

Geotechnical Hydrogeological & Environmental Solutions
 12700- Keele Street
 King City, ON. L7B 1H5
 Phone# 905 833 1582, Fax# 905 833 5360

North:



Legend:

-  Property Boundary
-  Bore Holes / Monitoring Wells

Project Title:
 Hydrogeological Investigation

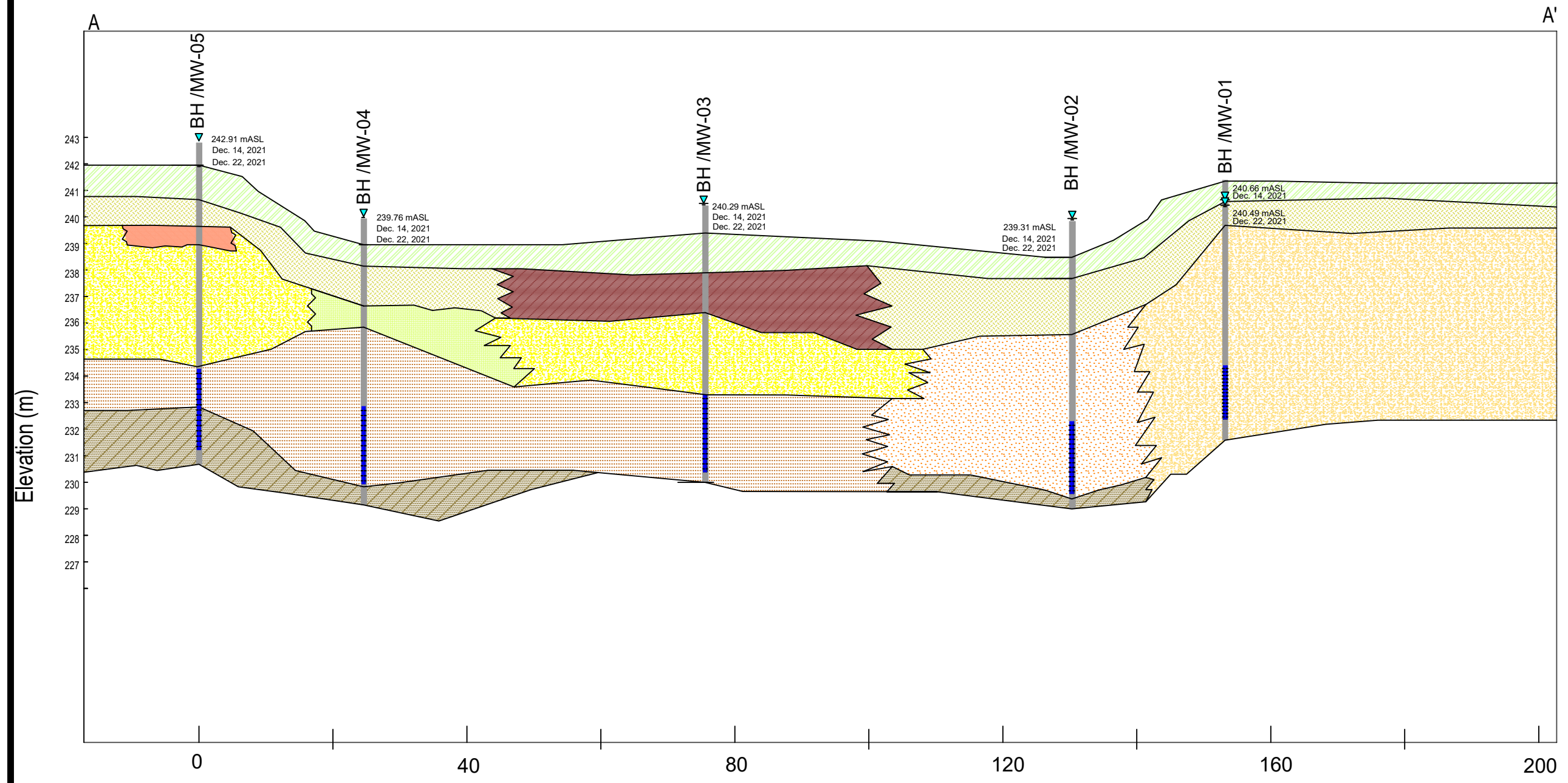
Site Location:
 10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:
 SIRATI Borehole Location plan

| | |
|---------------------------|---------------------------------------|
| Scale: As Shown | Project Number: SP21-981-00 |
|---------------------------|---------------------------------------|

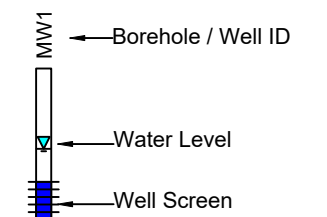
| | |
|---------------------------|------------------------------|
| Date: Dec. 2022 | Figure Number: 5-1 |
|---------------------------|------------------------------|

North:



Legend:

- Fill
- Sand /Fine Sand
- Silty Sand
- Silt & Sand
- Silt to Sandy Silt
- Sandy Silty Clay
- Clayey Silt to Silty Clay
- Clayey Silt
- Silty Clay
- Sandy Clayey Silt



Note: Groundwater Elevation were obtained on Dec 14,2021and Dec 22,2021

Project Title:

Hydrogeological Investigation

Site Location:

10850 Concession Rd 4, Uxbridge, Ontario

Figure Title:

Cross Section Profile A-A' a/c SIRATI Boreholes

Scale:

N.T.S

Project Number:

SP21-981-00

Date:

Dec. 2022

Figure Number:

6-1

APPENDICES

APPENDIX A

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891512.543 E 641194.137

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-08-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 1

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | | | |
|-----------------------|---|-------------------------|---------|------|------------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|---|----|----|-----|----|----|----|----|-----|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 | 80 | 100 | 20 | 40 | 60 | 80 | 100 |
| 241.4 0.0 | FILL: silty Clay, some sand, some gravel, organics, brown to black, very moist, stiff | [Cross-hatched pattern] | 1 | SS | 8 | | | | | | | | | | | | | | | | | | |
| 240.6 0.8 | SAND: trace to some silt, trace gravel, trace organics, brown, wet, compact | [Dotted pattern] | 2 | SS | 17 | | | | | | | | | | | | | | | | | | |
| 239.8 239.7 1.7 | trace gravel SANDY CLAYEY SILT: trace gravel, grey, very moist, very stiff | [Diagonal line pattern] | 3 | SS | 16 | | | | | | | | | | | | | | | | | | |
| | | | 4 | SS | 18 | | | | | | | | | | | | | | | | | | |
| | | | 5 | SS | 29 | | | | | | | | | | | | | | | | | | |
| 236.8 4.6 | some boulders, hard | [Diagonal line pattern] | 6 | SS | 50/ 120mm (typical) | | | | | | | | | | | | | | | | | | |
| | | | 7 | SS | 80/ 220mm | | | | | | | | | | | | | | | | | | |
| | | | 8 | SS | 50/ 25 mm | | | | | | | | | | | | | | | | | | |

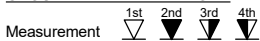
W. L. 239.8 m
Dec 14, 2021

3 27 51 19

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT_21-12-21

Continued Next Page

GROUNDWATER ELEVATIONS



GRAPH NOTES

+3, ×3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

| | |
|--|--|
| PROJECT: Hydrogeological Investigation CLIENT: Weston Consulting PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON DATUM: Geodetic BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891512.543 E 641194.137 | DRILLING DATA Method: Hollow Stem Diameter: 200 mm Date: Dec-08-2021 REF. NO.: SP21-981-00 ENCL NO.: 1 |
|--|--|

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|----------------------|--|-------------|---------|------|--------------------|-------------------------|-----------|--|--|--|--|---|------------------------|--------------------------------------|---|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | SHEAR STRENGTH (kPa) | | | | | | | |
| 9 -231.6 | some boulders, hard(Continued) | | | | | 233 | | | | | | | | | |
| | | | 9 | SS | 50/ 150mm | 232 | | | | | | ○ | | | |
| 9.8 | 1. Borehole was open and water level was at 7.65 m upon completion of drilling. 2. Monitoring well installed in the BH from 6.1 m to 9.6 m bgs. 3. Groundwater level observations: Date Depth (mbgs) 2021-12-14 0.7 2021-12-22 0.9 | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT 21-12-21

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3 , × 3 : Numbers refer to Sensitivity ○ ● =3% Strain at Failure

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891513.218 E 641103.374

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-08-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 2

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | | | | | | |
|----------------------|--|-------------|---------|------|--------------------|----------------------------|-----------|---|----|------------------------------------|-------------------------------------|-----------------------------------|---------------------------|---|---|----|----|-----|----|----|----|----|-----|----|-------------|----|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 | 80 | 100 | 20 | 40 | 60 | 80 | 100 | 10 | 20 | 30 |
| 238.5 | FILL: silty Clay, some sand, some gravel, organics, brown to black, very moist, hard | | 1 | SS | 32 | | 238.5 | | | | | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | W. L. 238.5 m Dec 14, 2021 | | | | | | | | | | | | | | | | | | |
| 237.7 | SAND: trace to some silt, trace gravel, trace organics, grey, very moist, compact ----- some gravel, wet | | 2 | SS | 10 | | 237 | | | | | | | | | | | | | | | | | | | |
| 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 237.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 235.6 | SANDY SILTY CLAY: some gravel, grey, very moist to wet, stiff ----- very soft | | 3 | SS | 9 | | 235 | | | | | | | | | | | | | | | | | | | |
| 2.9 | | | | | | | | | | | | | | | | | | | | | | | | | 11 37 20 32 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230.9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8 | SS | 0 | | 231 | | | | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL.GDT 21-12-21

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ ●=3% Strain at Failure

| | |
|--|--|
| PROJECT: Hydrogeological Investigation CLIENT: Weston Consulting PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON DATUM: Geodetic BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891513.218 E 641103.374 | DRILLING DATA Method: Hollow Stem Diameter: 200 mm Date: Dec-08-2021 REF. NO.: SP21-981-00 ENCL NO.: 2 |
|--|--|

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | | | |
|----------------------|--|-------------|---------|------|--------------------|-------------------------|-----------|--|----|----|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|---|-----|----|----|----|----|-----|----|----|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | | | | 100 | 20 | 40 | 60 | 80 | 100 | 10 | 20 |
| | very soft(Continued) | | | | | | | | | | | | | | | | | | | | | | | | |
| 229.4 9.1 | SILT TO SANDY SILT: trace clay, trace gravel, grey, very moist, very dense | | 9 | SS | 80/ 250 mm | | | | | | | | | | | | | | | | | | | | |
| 229.0 9.5 | 1. Borehole was open and water level was at 8.35 m upon completion of drilling. 2. Monitoring well installed in the BH from 6.1 m to 9.6 m bgs. 3. Groundwater level observations: Date Depth (mbgs) 2021-12-14 0.0 Water flowing from top of riser 2021-12-22 0.0 Water flowing from top of riser | | | | | | | | | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT 21-12-21

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES +³, ×³: Numbers refer to Sensitivity ○ ●=3% Strain at Failure

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891579.842 E 641156.585

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-07-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 3

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL | |
|----------------------|--|-------------|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|---------------------------|---|--|------------|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 |
| 239.4 | | | | | | | | | | | | | | | | |
| 0.0 | FILL: silty clay, organics, dark brown to black, moist, stiff | | 1 | SS | 9 | | | | | | | | | | | |
| 238.7 | | | | | | | | | | | | | | | | |
| 0.8 | sandy silt, trace to some clay, trace gravel, organics, dark brown, moist, compact | | 2 | SS | 20 | | | | | | | | | | | |
| 237.9 | | | | | | | | | | | | | | | | |
| 1.5 | CLAYEY SILT: trace sand, trace gravel, grey, moist, stiff | | 3 | SS | 13 | | | | | | | | | | | |
| 237.9 | | | | | | | | | | | | | | | | |
| 3.0 | SAND AND SILT: some clay, trace gravel, grey, moist, compact | | 4 | SS | 9 | | | | | | | | | | | |
| 236.4 | | | | | | | | | | | | | | | | |
| 4.6 | | | | | | | | | | | | | | | | |
| 234.9 | | | | | | | | | | | | | | | | |
| 4.6 | | | | | | | | | | | | | | | | |
| 233.3 | | | | | | | | | | | | | | | | |
| 6.1 | CLAYEY SILT TO SILTY CLAY: trace gravel, grey, very moist, stiff | | 5 | SS | 32 | | | | | | | | | | | 2 40 44 14 |
| 233.3 | | | | | | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | | | | | | |
| 231.8 | | | | | | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL.GDT 21-12-21

Continued Next Page

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES

+3, ×3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

| | |
|--|--|
| PROJECT: Hydrogeological Investigation CLIENT: Weston Consulting PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON DATUM: Geodetic BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891579.842 E 641156.585 | DRILLING DATA Method: Hollow Stem Diameter: 200 mm Date: Dec-07-2021 REF. NO.: SP21-981-00 ENCL NO.: 3 |
|--|--|

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | | PLASTIC LIMIT | NATURAL MOISTURE CONTENT | LIQUID LIMIT | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|----------------|---|-------------|--------|------|-------------------------|-----------|--|----------------------|--|--|--|---------------|--------------------------|--------------|------------------------|--------------------------------------|---|----------------|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS 0.3 m | SHEAR STRENGTH (kPa) | | | | | | | | | | W _p |
| 230.3 9.1 | some boulders(Continued) | | | | | | | | | | | | | | | | | |
| 230.0 9.4 | moist, hard | | 9 | SS | 50/ 125 | | | | | | | | | | | | | |
| | 1. Borehole was open and water level was 7.64 m upon completion of drilling. 2. Monitoring well installed in the BH from 6.1 m to 9.6 m bgs. 3. Groundwater level observations: Date Depth (mbgs) 2021-12-14 0.0 Water flowing from top of riser. 2021-12-22 0.0 Water flowing from top of riser. | | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT 21-12-21

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3 , × 3 : Numbers refer to Sensitivity ○ ● =3% Strain at Failure

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891642.56 E 641080.407

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-06-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 4

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|----------------------|---|----------------------------|---------|------|--------------------|----------------------------|-------------------------------|---|-----------------|------------------------------------|-------------------------------------|-----------------------------------|---------------------------|---|---|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 40 60 80 100 | 20 40 60 80 100 | | | | | | |
| 238.9 | FILL: clayey silt, some sand, trace gravel, organics, dark brown, moist, very stiff | [Cross-hatch pattern] | 1 | SS | 14 | | W. L. 238.9 m Dec 14, 2021 | | | | | | | | |
| 238.2 | | | 2 | SS | 19 | | | | | | | | | | |
| 0.8 | SAND: trace to some silt, trace gravel, brown, moist, compact | [Dotted pattern] | 3 | SS | 18 | | | | | | | | | | |
| 236.6 | | | 4 | SS | 25 | | | | | | | | | | |
| 2.3 | SILTY SAND: trace clay, grey, very moist to wet, compact | [Vertical lines pattern] | 5 | SS | 21 | | | | | | | | | | |
| 235.9 | | | 6 | SS | 8 | | | | | | | | | | |
| 3.1 | CLAYEY SILT TO SILTY CLAY: trace sand, trace gravel, grey, very moist, stiff to very stiff | [Diagonal lines pattern] | 7 | SS | 5 | | | | | | | | | | |
| 232.8 | | | 8 | SS | 6 | | | | | | | | | | |
| 6.1 | very moist to wet, firm | [Horizontal lines pattern] | | | | | | | | | | | | | |
| 231 | | | | | | | | | | | | | | | |

SPCL SOIL LOG / DRAFT SP21-981-00 - MA.GPJ, SPCL.GDT, 21-12-21

Continued Next Page

GROUNDWATER ELEVATIONS
 Measurement: 1st, 2nd, 3rd, 4th

GRAPH NOTES

+3, ×3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

| | |
|---|--|
| PROJECT: Hydrogeological Investigation CLIENT: Weston Consulting PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON DATUM: Geodetic BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891642.56 E 641080.407 | DRILLING DATA Method: Hollow Stem Diameter: 200 mm Date: Dec-06-2021 REF. NO.: SP21-981-00 ENCL NO.: 4 |
|---|--|

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | |
|----------------|---|-------------|--------|------|-------------------------|-----------|--|----------------------|--|--|--|------------------------|--------------------------------------|---|----------------|---|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS 0.3 m | SHEAR STRENGTH (kPa) | | | | | | | W _p | W |
| 229.8 | very moist to wet, firm(Continued) | | | | | | | | | | | | | | | |
| 9.1 | SILT TO SANDY SILT: trace gravel, grey, very moist to wet, loose | | 9 | SS | 8 | | | | | | | | | | | |
| 229.2 | | | | | | | | | | | | | | | | |
| 9.8 | 1. Borehole was open and water level was 7.64 m upon completion of drilling. 2. Monitoring well installed in the BH from 6.1 m to 9.6 m bgs. 3. Groundwater level observations: Date Depth (mbgs) 2021-12-14 0.0 Water flowing from top of riser. 2021-12-22 0.0 Water flowing from top of riser. | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT 21-12-21

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES +³, ×³: Numbers refer to Sensitivity ○ ●=3% Strain at Failure

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891662.19 E 641135.833

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-06-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 5

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|----------------------|---|-------------|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|---|----|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 |
| 242.0 | | | | | | | | | | | | | | | | |
| 0.0 | FILL: sand, trace to some silt, trace gravel, organics, brown, moist, loose | | 1 | SS | 4 | | | | | | | | | | | |
| 240.7 | | | 2 | SS | 5 | | | | | | | | | | | |
| 1.3 | SAND: trace to some silt, trace gravel, organics, brown, wet, dense | | 3 | SS | 37 | | | | | | | | | | | |
| 239.7 | | | 4 | SS | 9 | | | | | | | | | | | |
| 2.3 | SILTY CLAY: trace sand, grey, moist, stiff | | 5 | SS | 8 | | | | | | | | | | | |
| 3.0 | SAND AND SILT: trace to some clay, brown, wet, loose | | 6 | SS | 14 | | | | | | | | | | | |
| 4.0 | | | 7 | SS | 18 | | | | | | | | | | | |
| 5.0 | | | 8 | SS | 38 | | | | | | | | | | | |
| 6.1 | | | | | | | | | | | | | | | | |
| 7.6 | CLAYEY SILT TO SILTY CLAY: trace gravel, grey, very moist, hard | | | | | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT_21-12-21

Continued Next Page

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure

4 51 36 9

PROJECT: Hydrogeological Investigation
 CLIENT: Weston Consulting
 PROJECT LOCATION: 10850 Concession Road 4, Uxbridge, ON
 DATUM: Geodetic
 BH LOCATION: 10850 Concession Rd 4, Uxbridge N 4891662.19 E 641135.833

DRILLING DATA
 Method: Hollow Stem
 Diameter: 200 mm
 Date: Dec-06-2021
 REF. NO.: SP21-981-00
 ENCL NO.: 5

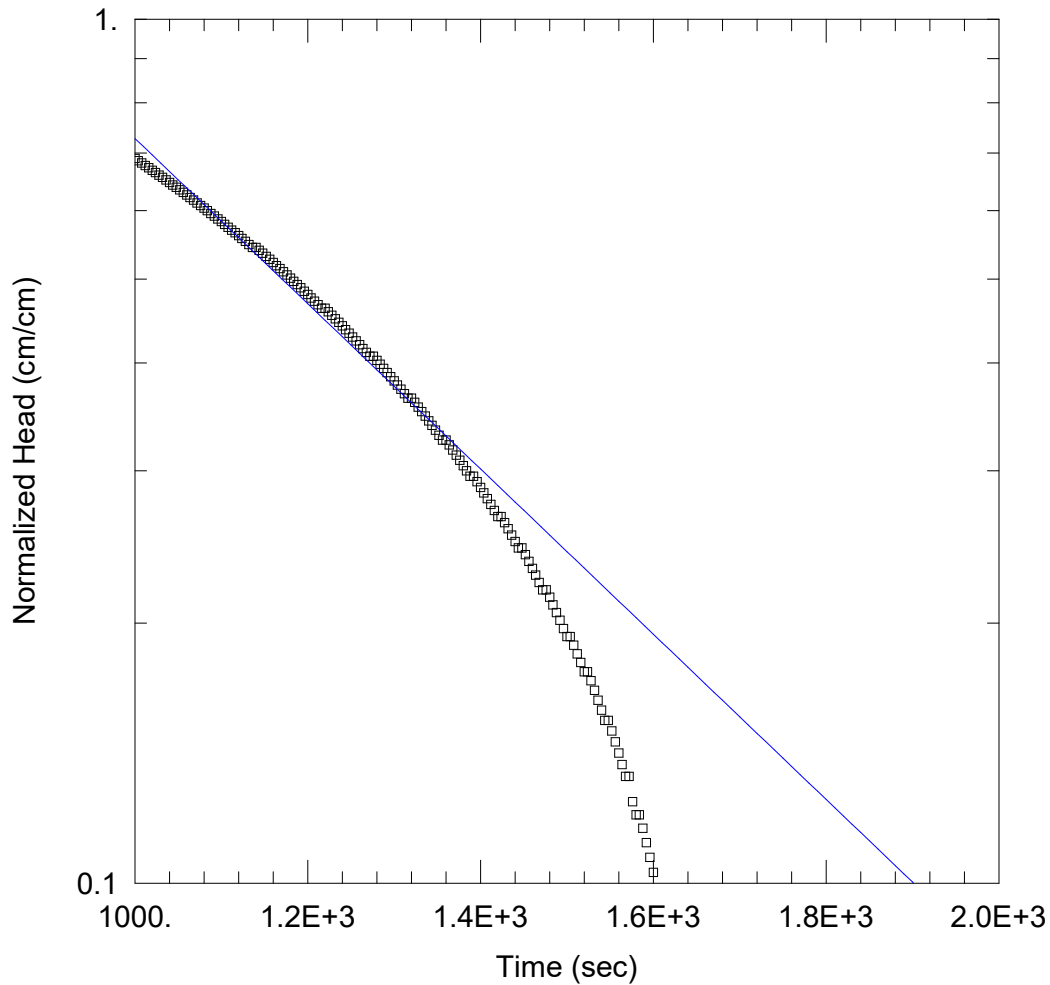
| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | |
|----------------------|---|-------------------|---------|------|--------------------|-------------------------|-----------|--|----|----|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|---|-----|----|----|----|----|-----|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | | | | 100 | 20 | 40 | 60 | 80 | 100 |
| 232.9 | CLAYEY SILT TO SILTY CLAY: trace gravel, grey, very moist, hard(Continued) | [Hatched pattern] | | | | | | | | | | | | | | | | | | | | | |
| 9.1 | SILT TO SANDY SILT: trace clay, grey, wet, compact | [Hatched pattern] | 9 | SS | 20 | | | | | | | | | | | | | | | | | | |
| 232 | | | | | | | | | | | | | | | | | | | | | | | |
| 231 | | | 10 | SS | | | | | | | | | | | | | | | | | | | |
| 230.7 | | | | | | | | | | | | | | | | | | | | | | | |
| 11.3 | 1. Borehole was open and water level was 9.75 m upon completion of drilling. 2. Monitoring well installed in the BH from 7.6 m to 9.6 m bgs. 3. Groundwater level observations: Date Depth (mbgs) 2021-12-14 0.0 Water flowing from top of riser. 2021-12-22 0.0 Water flowing from top of riser. | | | | | | | | | | | | | | | | | | | | | | |

SPCL SOIL LOG /DRAFT SP21-981-00 -MA.GPJ SPCL_GDT 21-12-21

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES +³, ×³: Numbers refer to Sensitivity ○ ●=3% Strain at Failure

APPENDIX B



WELL TEST ANALYSIS

Data Set: ...\BHMW01.aqt
 Date: 12/22/21

Time: 15:54:03

PROJECT INFORMATION

Company: Sirati and Partners
 Client: Weston Consulting
 Project: SP21-981-00
 Location: Concession Road, Uxbridge
 Test Well: BH/MW-01
 Test Date: December 14, 2021

AQUIFER DATA

Saturated Thickness: 8.4 cm

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (New Well)

Initial Displacement: 0.7 cm
 Total Well Penetration Depth: 9.1 cm
 Casing Radius: 0.05 cm

Static Water Column Height: 8.4 cm
 Screen Length: 3. cm
 Well Radius: 0.05 cm

SOLUTION

Aquifer Model: Confined
 K = 4.393E-6 cm/sec

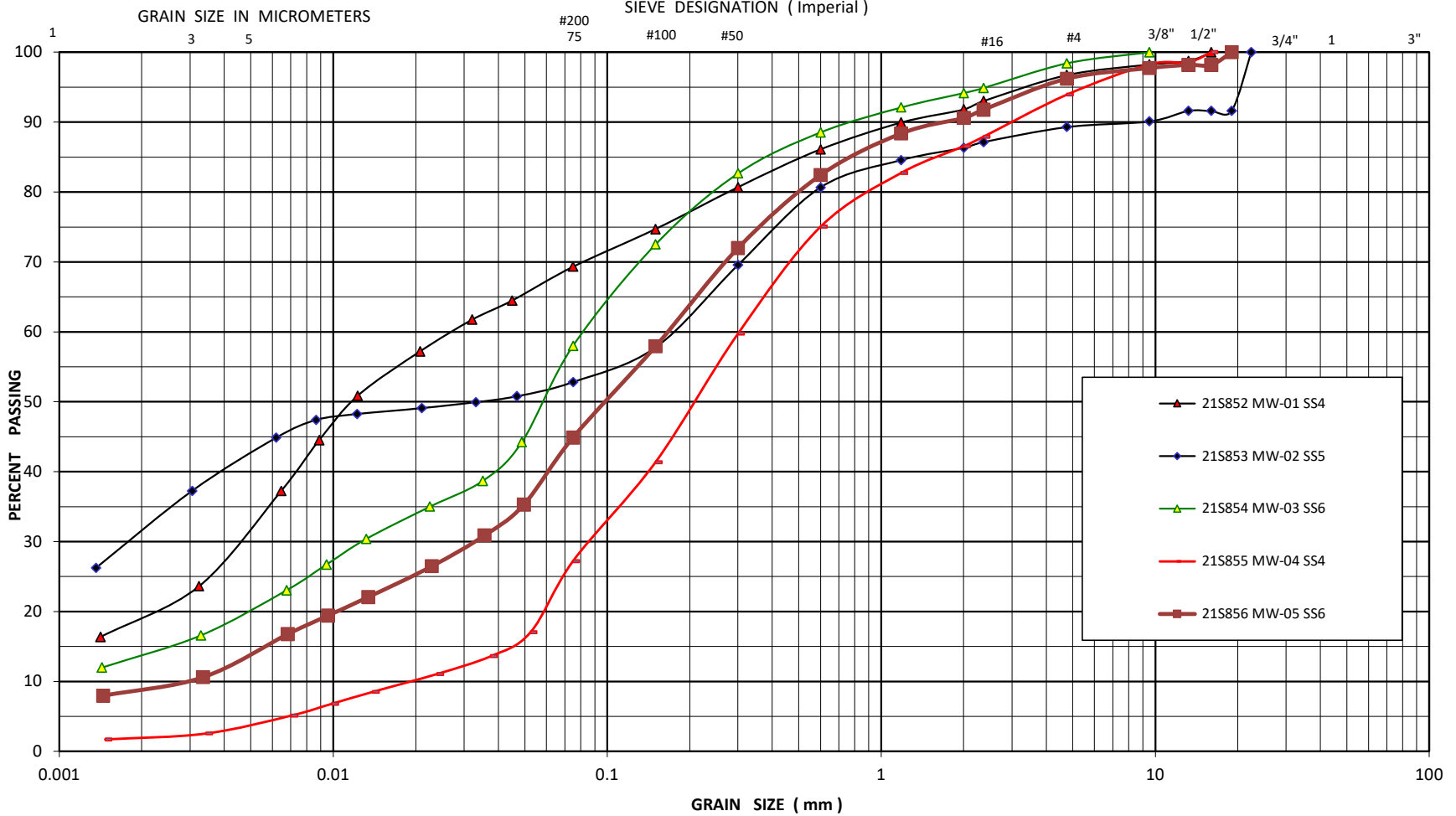
Solution Method: Hvorslev
 y0 = 4.605 cm

APPENDIX C

GRAIN SIZE DISTRIBUTION

UNIFIED SOIL CLASSIFICATION SYSTEM

| | | | | | |
|---------------|------|--------|--------|--------|--------|
| CLAY AND SILT | SAND | | | GRAVEL | |
| | Fine | Medium | Coarse | Fine | Coarse |



| | |
|-------------|--------------------|
| Project No. | : SP21-981-00 |
| Date | : 20 December 2021 |
| Figure No. | : 1 |

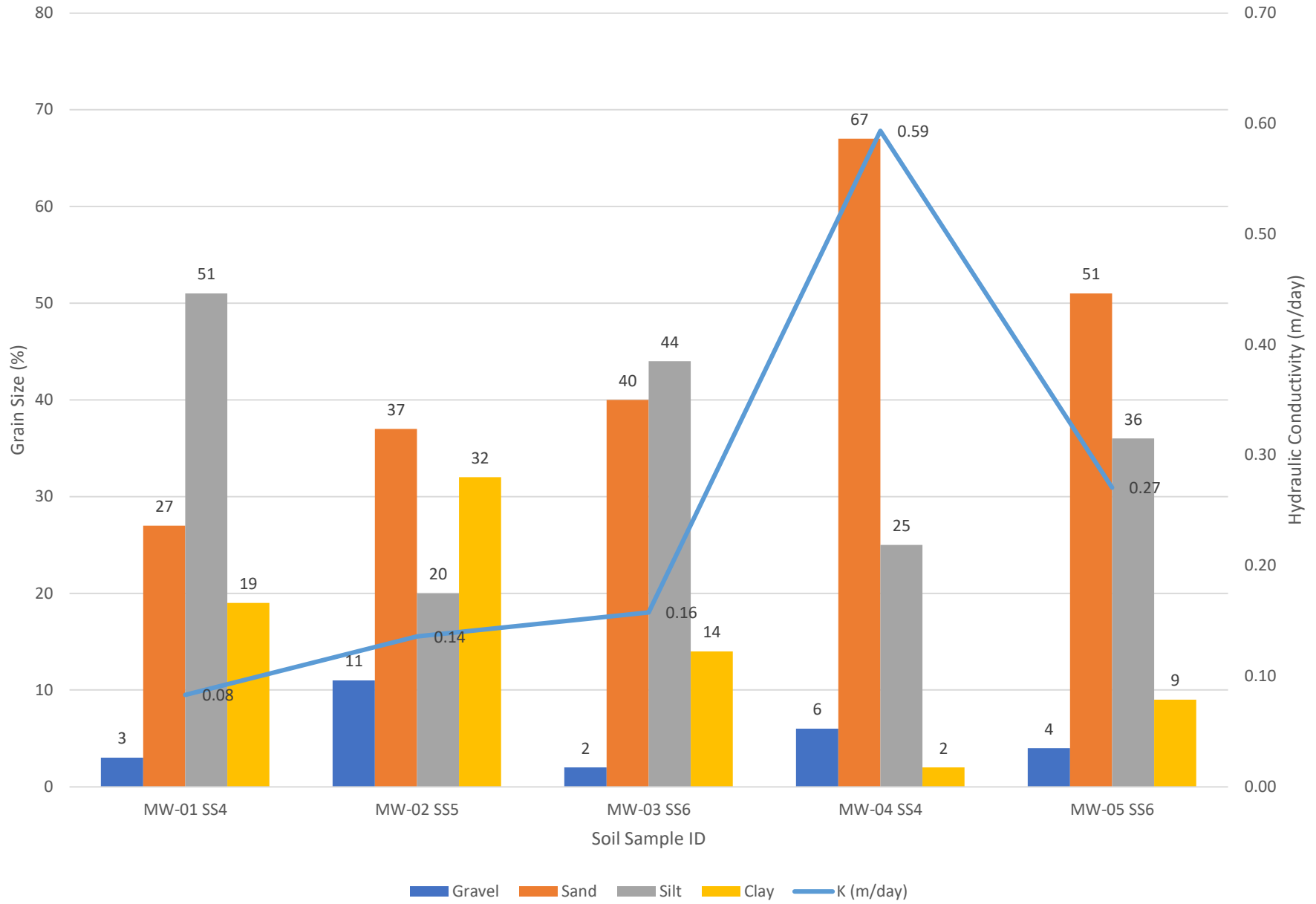
Table: Summary of Grain Size Distribution for Soil Samples from Borehole (BH1 - BH5)

| BH-SS | Gravel | Sand | Silt | Clay | K (cm/sec) | K (m/day) |
|--------------|---------------|-------------|-------------|-------------|-------------------|------------------|
| MW-01 SS4 | 3 | 27 | 51 | 19 | 0.00010 | 0.08 |
| MW-02 SS5 | 11 | 37 | 20 | 32 | 0.00016 | 0.14 |
| MW-03 SS6 | 2 | 40 | 44 | 14 | 0.00018 | 0.16 |
| MW-04 SS4 | 6 | 67 | 25 | 2 | 0.00069 | 0.59 |
| MW-05 SS6 | 4 | 51 | 36 | 9 | 0.00031 | 0.27 |

Table: Summary of Moisture Contents of Sc

| Borehole ID | Average Moisture Content (%) |
|--------------------|-------------------------------------|
| BH1 | 13.3 |
| BH2 | 16.4 |
| BH3 | 12.0 |
| BH4 | 12.4 |
| BH5 | 13.8 |

Hydraulic Conductivity vs Grain Size Distribution



APPENDIX D



Certificate of Analysis

Client: Sirati & Partners Consultants
12700 Keele Street
King City, Ontario
L7B 1H5
Attention: Reza Khabbaznia
PO#:
Invoice to: Sirati & Partners Consultants

Report Number: 1968753
Date Submitted: 2021-12-15
Date Reported: 2021-12-23
Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
COC #: 215948

Dear Reza Khabbaznia:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL: _____
Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Client: Sirati & Partners Consultants
 12700 Keele Street
 King City, Ontario
 L7B 1H5
 Attention: Reza Khabbaznia
 PO#:
 Invoice to: Sirati & Partners Consultants

Report Number: 1968753
 Date Submitted: 2021-12-15
 Date Reported: 2021-12-23
 Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
 COC #: 215948

| Group | Analyte | MRL | Units | Guideline | Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. |
|-------------------|----------------------------------|--------|-------|------------|--|
| General Chemistry | BOD5 | 1 | mg/L | MAC 15 | 1602079 STRM W 2021-12-15 SP21-981-00 |
| | Cyanide (total) | 0.005 | mg/L | MAC 0.020 | |
| | pH | 1.00 | | 6.0-9.0 | |
| | Phenols | 0.002 | mg/L | MAC 0.008 | |
| | Total Suspended Solids | 2 | mg/L | MAC 15 | 430* |
| Mercury | Hg | 0.0001 | mg/L | MAC 0.0004 | <0.0001 |
| Metals | Ag | 0.01 | mg/L | MAC 0.120 | <0.01 |
| | As | 0.02 | mg/L | MAC 0.020 | <0.02 |
| | Cd | 0.008 | mg/L | MAC 0.008 | <0.008 |
| | Cr | 0.05 | mg/L | MAC 0.080 | <0.05 |
| | Cu | 0.01 | mg/L | MAC 0.050 | <0.01 |
| | Mn | 0.01 | mg/L | MAC 0.150 | 0.09 |
| | Ni | 0.01 | mg/L | MAC 0.080 | <0.01 |
| | Pb | 0.01 | mg/L | MAC 0.120 | <0.01 |
| | Se | 0.02 | mg/L | MAC 0.020 | <0.02 |
| | Zn | 0.04 | mg/L | MAC 0.040 | <0.04 |
| Nutrients | Total Kjeldahl Nitrogen | 0.100 | mg/L | MAC 1 | 0.391 |
| | Total P | 0.020 | mg/L | MAC 0.400 | 0.069 |
| PCBs | Polychlorinated Biphenyls (PCBs) | 0.1 | ug/L | MAC 0.4 | <0.1 |
| Semi-Volatiles | Bis(2-ethylhexyl)phthalate | 0.4 | ug/L | MAC 8.8 | 1.2 |
| | Di-n-butylphthalate | 1.3 | ug/L | MAC 15.0 | <1.3 |
| VOCs Surrogates | 1,2-dichloroethane-d4 | 0 | % | | 130 |
| | 4-bromofluorobenzene | 0 | % | | 84 |
| | Toluene-d8 | 0 | % | | 103 |
| Volatiles | 1,1,1,2-tetrachloroethane | 0.5 | ug/L | MAC 17.0 | <0.5 |

Guideline = Storm Sewer - York

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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 L7B 1H5
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 Date Submitted: 2021-12-15
 Date Reported: 2021-12-23
 Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
 COC #: 215948

Lab I.D. 1602079
 Sample Matrix STRM W
 Sample Type
 Sampling Date 2021-12-15
 Sample I.D. SP21-981-00

| Group | Analyte | MRL | Units | Guideline | |
|---------------|-------------------------|------|---------|-----------|------|
| Volatiles | 1,2-dichlorobenzene | 0.4 | ug/L | MAC 5.6 | <0.4 |
| | 1,4-dichlorobenzene | 0.4 | ug/L | MAC 6.8 | <0.4 |
| | Benzene | 0.5 | ug/L | MAC 2.0 | <0.5 |
| | c-1,2-Dichloroethylene | 0.4 | ug/L | MAC 5.6 | <0.4 |
| | Chloroform | 0.5 | ug/L | MAC 2.0 | <0.5 |
| | Dichloromethane | 4.0 | ug/L | MAC 5.2 | <4.0 |
| | Ethylbenzene | 0.5 | ug/L | MAC 2.0 | <0.5 |
| | m/p-xylene | 0.4 | ug/L | | <0.4 |
| | o-xylene | 0.4 | ug/L | | <0.4 |
| | t-1,3-Dichloropropylene | 0.2 | ug/L | MAC 5.6 | <0.2 |
| | Tetrachloroethylene | 0.3 | ug/L | MAC 4.4 | <0.3 |
| | Toluene | 0.5 | ug/L | MAC 2.0 | <0.5 |
| | Trichloroethylene | 0.3 | ug/L | MAC 8.0 | 2.5 |
| Xylene; total | 0.5 | ug/L | MAC 4.4 | <0.5 | |

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 Date Reported: 2021-12-23
 Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
 COC #: 215948

QC Summary

| Analyte | Blank | QC % Rec | QC Limits |
|--|--------------|----------|-----------|
| Run No 412429 Analysis/Extraction Date 2021-12-20 Analyst C M | | | |
| Method B 625/P 8270 | | | |
| Bis(2-ethylhexyl)phthalate | <0.4 ug/L | | 20-140 |
| Di-n-butylphthalate | <1.3 ug/L | | 20-140 |
| Run No 414251 Analysis/Extraction Date 2021-12-21 Analyst Z S | | | |
| Method SM 5210B | | | |
| BOD5 | <1 mg/L | 95 | 75-125 |
| Run No 414285 Analysis/Extraction Date 2021-12-17 Analyst SKH | | | |
| Method EPA 365.1 | | | |
| Total P | <0.020 mg/L | 95 | 80-120 |
| Run No 414291 Analysis/Extraction Date 2021-12-17 Analyst AaN | | | |
| Method SM4500-CNC/MOE E3015 | | | |
| Cyanide (total) | <0.005 mg/L | 102 | 61-139 |
| Run No 414298 Analysis/Extraction Date 2021-12-17 Analyst SKH | | | |
| Method EPA 351.2 | | | |
| Total Kjeldahl Nitrogen | <0.100 mg/L | 86 | 70-130 |
| Run No 414301 Analysis/Extraction Date 2021-12-17 Analyst AaN | | | |
| Method M SM3112B-3500B | | | |
| Mercury | <0.0001 mg/L | 117 | 76-123 |

Guideline = Storm Sewer - York

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 L7B 1H5
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Report Number: 1968753
 Date Submitted: 2021-12-15
 Date Reported: 2021-12-23
 Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
 COC #: 215948

QC Summary

| Analyte | Blank | QC % Rec | QC Limits |
|---|-------------|----------|-----------|
| Run No 414351 Analysis/Extraction Date 2021-12-17 Analyst IP Method SM5530D/EPA420.2 | | | |
| Phenols | <0.001 mg/L | 64 | 50-120 |
| Run No 414364 Analysis/Extraction Date 2021-12-17 Analyst AsA Method SM2320,2510,4500H/F | | | |
| pH | | 99 | 90-110 |
| Run No 414373 Analysis/Extraction Date 2021-12-17 Analyst YH Method EPA 8260 | | | |
| Tetrachloroethane, 1,1,2,2- | <0.5 ug/L | 100 | 60-130 |
| Dichlorobenzene, 1,2- | <0.4 ug/L | 82 | 60-130 |
| Dichlorobenzene, 1,4- | <0.4 ug/L | 85 | 60-130 |
| Benzene | <0.5 ug/L | 88 | 60-130 |
| Dichloroethylene, 1,2-cis- | <0.4 ug/L | 87 | 60-130 |
| Chloroform | <0.5 ug/L | 90 | 60-130 |
| Methylene Chloride | <4.0 ug/L | 117 | 60-130 |
| Ethylbenzene | <0.5 ug/L | 82 | 60-130 |
| m/p-xylene | <0.4 ug/L | 84 | 60-130 |
| o-xylene | <0.4 ug/L | 91 | 60-130 |
| Dichloropropene, 1,3-trans- | <0.2 ug/L | 84 | 60-130 |

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Certificate of Analysis

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Report Number: 1968753
 Date Submitted: 2021-12-15
 Date Reported: 2021-12-23
 Project: SP21-981-00 - 1850 Concession Rd, Uxbridge
 COC #: 215948

QC Summary

| Analyte | Blank | QC % Rec | QC Limits |
|---|-------------|----------|-----------|
| Tetrachloroethylene | <0.3 ug/L | 81 | 60-130 |
| Toluene | <0.5 ug/L | 88 | 60-130 |
| Trichloroethylene | <0.3 ug/L | 88 | 60-130 |
| Run No 414375 Analysis/Extraction Date 2021-12-20 Analyst YH Method EPA 8260 | | | |
| Xylene Mixture | | | |
| Run No 414424 Analysis/Extraction Date 2021-12-20 Analyst AsA Method C SM2540 | | | |
| Total Suspended Solids | <2 mg/L | 102 | 90-110 |
| Run No 414576 Analysis/Extraction Date 2021-12-22 Analyst ZoB Method EPA 8081B | | | |
| Polychlorinated Biphenyls | <0.1 ug/L | 103 | 60-140 |
| Run No 414760 Analysis/Extraction Date 2021-12-23 Analyst AaN Method EPA 200.8 | | | |
| Silver | <0.01 mg/L | 90 | 70-130 |
| Arsenic | <0.02 mg/L | 94 | 70-130 |
| Cadmium | <0.008 mg/L | 98 | 70-130 |
| Chromium Total | <0.05 mg/L | 106 | 70-130 |
| Copper | <0.01 mg/L | 107 | 70-130 |

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QC Summary

| Analyte | Blank | QC % Rec | QC Limits |
|-----------|------------|----------|-----------|
| Manganese | <0.01 mg/L | 103 | 70-130 |
| Nickel | <0.01 mg/L | 105 | 70-130 |
| Lead | <0.01 mg/L | 90 | 70-130 |
| Selenium | <0.02 mg/L | 101 | 70-130 |
| Zinc | <0.04 mg/L | 99 | 70-130 |

Guideline = Storm Sewer - York

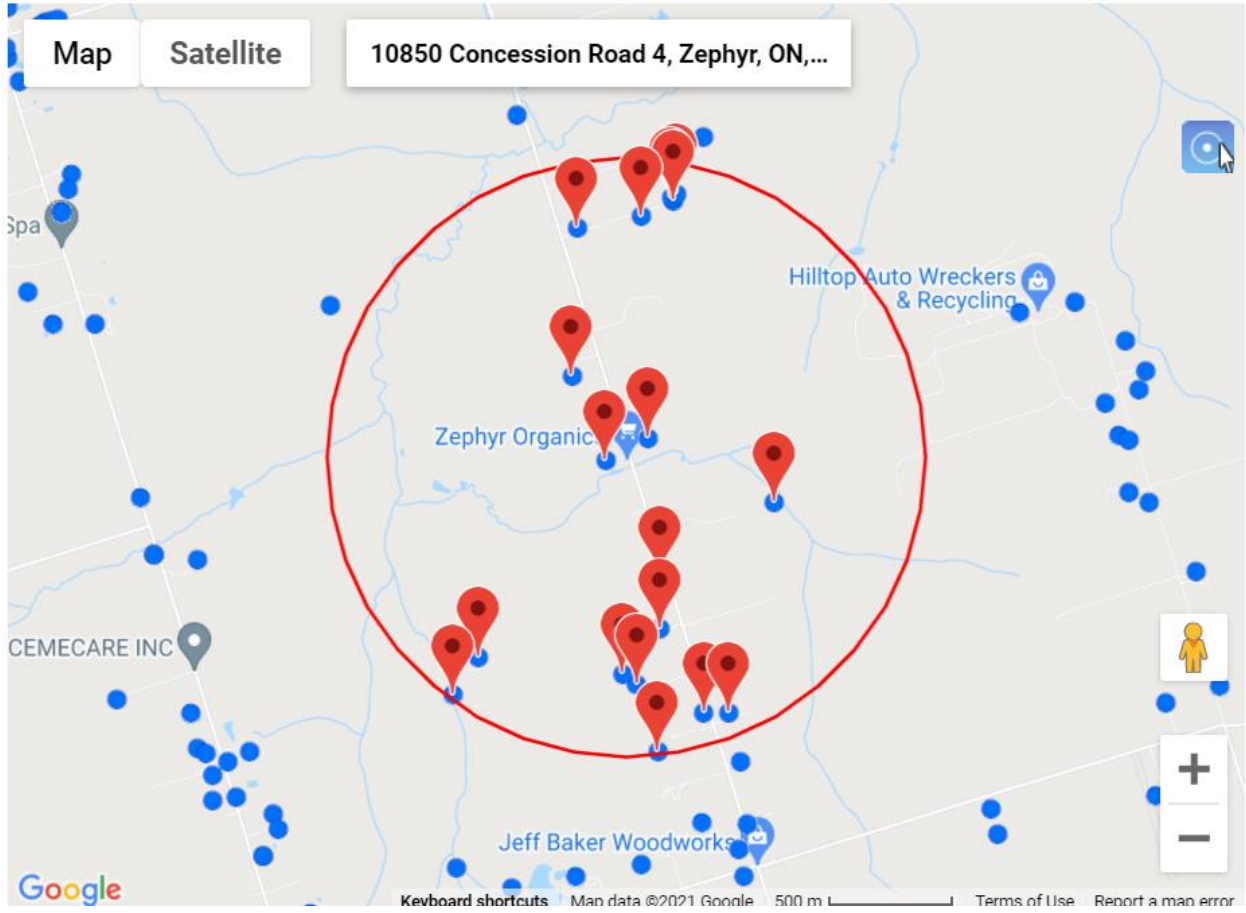
*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
 Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

APPENDIX E

10850 Concession Road 4, Uxbridge, Ontario



Show entries Search:

| Well ID ^ | Well Record Information ^ | Well Tag # (since 2003) ^ | Audit # ^ | Contractor Lic# ^ | Well Depth (m) ^ | Date of Completion (MM/DD/YYYY) ^ |
|-----------|--|---------------------------|-----------|-------------------|------------------|-----------------------------------|
| 1904602 | PDF HTML | N/A | N/A | 1413 | 14.3 | 04/20/1977 |
| 1906161 | PDF HTML | N/A | N/A | 4743 | 46.3 | 10/26/1981 |
| 1909336 | PDF HTML | N/A | 30345 | 1413 | 12.2 | 08/23/1988 |
| 1910420 | PDF HTML | N/A | 73143 | 4743 | 36.3 | 01/18/1990 |
| 1916519 | PDF HTML | N/A | 258531 | 2214 | N/A | 05/23/2003 |
| 1917313 | PDF HTML | N/A | Z19228 | 1413 | N/A | 10/12/2004 |
| 4602414 | PDF HTML | N/A | N/A | 5420 | 8.2 | 12/07/1961 |
| 4602415 | PDF HTML | N/A | N/A | 3903 | 6.1 | 08/18/1964 |
| 4604551 | PDF HTML | N/A | N/A | 1413 | 46.9 | 10/26/1970 |
| 4605623 | PDF HTML | N/A | N/A | 5459 | 43.6 | 07/10/1973 |
| 4606366 | PDF HTML | N/A | N/A | 1413 | 7.3 | 10/27/1975 |
| 7100023 | PDF HTML | A055506 | Z65318 | 7108 | 25.9 | 12/28/2007 |
| 7111569 | PDF HTML | N/A | Z86547 | 7108 | N/A | 08/08/2008 |
| 7147148 | PDF HTML | A095604 | Z110423 | 1413 | 51.8 | 04/13/2010 |
| 7229005 | PDF HTML | A161431 | Z185064 | 7108 | 22.2 | 09/15/2014 |
| 7272600 | PDF HTML | A188962 | Z243519 | 1413 | 11.6 | 08/24/2016 |
| 7293852 | PDF HTML | N/A | Z264097 | 1413 | N/A | 07/21/2017 |
| 7355811 | HTML | A282822 | Z327039 | 7644 | 15.2 | 03/13/2020 |

Showing 1 to 18 of 18 entries First Previous 1 Next Last

Table of Contents

| | |
|---------|----|
| 1904602 | 2 |
| 1906161 | 3 |
| 1909336 | 4 |
| 1910420 | 5 |
| 1916519 | 6 |
| 1917313 | 7 |
| 4602414 | 8 |
| 4602415 | 9 |
| 4604551 | 10 |
| 4605623 | 11 |
| 4606366 | 12 |
| 7100023 | 13 |
| 7111569 | 14 |
| 7147148 | 15 |
| 7229005 | 16 |
| 7272600 | 17 |
| 7293852 | 18 |
| 7355811 | 19 |



Ontario

P.P.M.

WATER WELL RECORD

31D3E

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1904602 19011 CON 04

COUNTY OR DISTRICT: ONTARIO DURHAM SCOTT
 TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: 3
 COY., BLOCK, TRACT, SURVEY, ETC: 4 OR
 LOT: 25-27
 DATE COMPLETED: 04 APRIL 77
 DAY: 20 MONTH: APRIL YEAR: 77
 TH: 891910 RC: 5 ELEVATION: 0830 S BASIN CODE: 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------|---------------------|--------------|----|
| | | | | FROM | TO |
| BLACK | LOAM | | SOFT | 0 | 1 |
| BROWN | CLAY | BOULDERS | HARD | 1 | 30 |
| BLUE | CLAY | BOULDERS | HARD | 30 | 44 |
| GREY | GRAVEL | | POROUS | 44 | 47 |

31 000180285 00306051373 00443051373 004721180
 32

41 WATER RECORD

| WATER FOUND FEET | KIND OF WATER |
|------------------|---|
| 10-13 | 1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| 15-18 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| 20-23 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| 25-28 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| 30-33 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |

51 CASING & OPEN HOLE RECORD

| INSIDE DIAM (INCHES) | MATERIAL | WALL THICKNESS (INCHES) | DEPTH - FEET |
|----------------------|------------|-------------------------|--------------|
| 5 1/4 | STEEL | 1/8 | 0 - 47 |
| 6 | GALVANIZED | | |
| | CONCRETE | | |
| | OPEN HOLE | | |
| | STEEL | | |
| | GALVANIZED | | |
| | CONCRETE | | |
| | OPEN HOLE | | |
| | STEEL | | |
| | GALVANIZED | | |
| | CONCRETE | | |
| | OPEN HOLE | | |

SCREEN

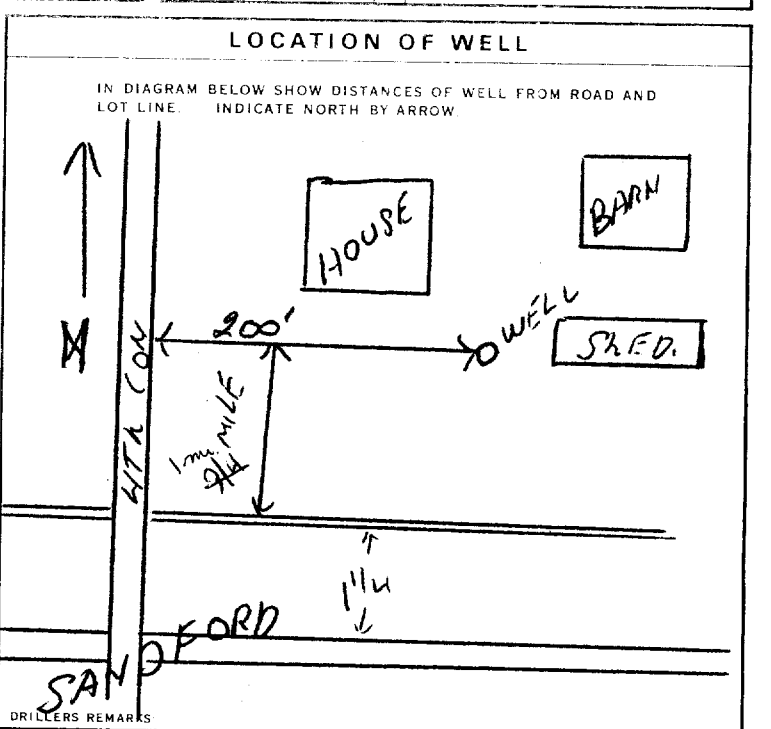
| SIZE(S) OF OPENING (SLOF NO.) | DIAMETER | LENGTH |
|-------------------------------|----------|------------------------|
| | INCHES | FEET |
| | | DEPTH TO TOP OF SCREEN |
| | | FEET |

61 PLUGGING & SEALING RECORD

| DEPTH SET AT - FEET | MATERIAL AND TYPE | (CEMENT GROUT LEAD PACKER, ETC.) |
|---------------------|-------------------|----------------------------------|
| 10-13 | 14-17 | |
| 18-21 | 22-25 | |
| 26-29 | 30-33 | 80 |

71 PUMPING TEST

| PUMPING TEST METHOD | PUMPING RATE | DURATION OF PUMPING |
|---|----------------------------|---|
| 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER | 005 GPM | 01 15-16 30 17-18 HOURS MINS |
| STATIC LEVEL | WATER LEVEL END OF PUMPING | WATER LEVELS DURING |
| 19-21 | 22-24 | 15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37 |
| 021 FEET | 029 FEET | 029 FEET 029 FEET |
| IF FLOWING, GIVE RATE | PUMP INTAKE SET AT | WATER AT END OF TEST |
| | 35 GPM | 42 FEET |
| RECOMMENDED PUMP TYPE | RECOMMENDED PUMP SETTING | RECOMMENDED PUMP RATE |
| 1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP | 035 FEET | 0005 GPM |



FINAL STATUS OF WELL: 1

WATER USE: 01

METHOD OF DRILLING: 2

CONTRACTOR: ROGER BOADWAY ENT LTD
 ADDRESS: BOX 397 SUTTON WEST ONT L0E 1P0
 NAME OF DRILLER OR BORER: NORM POWELL
 SIGNATURE OF CONTRACTOR: Roger Boadway
 LICENCE NUMBER: 1413
 SUBMISSION DATE: 20 APRIL 77

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1413 DATE RECEIVED: 1005??

DATE OF INSPECTION: INSPECTOR:

REMARKS: CSS.S8

WI

3103

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1906161 19011 C9N 03

COUNTY OR DISTRICT: **Uxbridge DURHAM** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Scott Uxbridge** CON. BLOCK, TRACT, SURVEY ETC: **3** LOT: **012**
Windsor P.O. Ontario DATE COMPLETED: DAY **26** MO **10** YR **81**

RC **5** ELEVATION **0950** RC **5** BASIN CODE **22**

| LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) | | | | | |
|--|----------------------|-----------------|---------------------|------------|-----|
| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH FEET | |
| | | | | FROM | TO |
| Brown | Clay | Stones | Firm | 0 | 24 |
| Brown | Gravel | Some Sand | Loose | 24 | 65 |
| Black | Cobble | | | 65 | 68 |
| Brown | Sand | Gravel | Loose | 68 | 100 |
| Brown | Sand | | Wet | 100 | 152 |

(31) 0024605/279 0045611/2877 0068817 0100428/1177 0152628

(41) **WATER RECORD**

| WATER FOUND AT FEET | KIND OF WATER |
|---------------------|--|
| 100-1052 0100 | 1 FRESH 3 <input type="checkbox"/> SULPHUR 2 SALTY 4 <input type="checkbox"/> MINERAL |
| 0152 | 1 FRESH 3 <input type="checkbox"/> SULPHUR 2 SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 FRESH 3 <input type="checkbox"/> SULPHUR 2 SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 FRESH 3 <input type="checkbox"/> SULPHUR 2 SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 FRESH 3 <input type="checkbox"/> SULPHUR 2 SALTY 4 <input type="checkbox"/> MINERAL |

(51) **CASING & OPEN HOLE RECORD**

| INSIDE DIAM INCHES | MATERIAL | WALL THICKNESS INCHES | DEPTH FEET |
|--------------------|----------|-----------------------|------------|
| 1.88" | STEEL | 0.188" | 1a.g. 0149 |
| 06 1/2" | | | |
| 17-18 | STEEL | | 20-23 |
| 24-25 | STEEL | | 27-30 |

(60) **SCREEN**

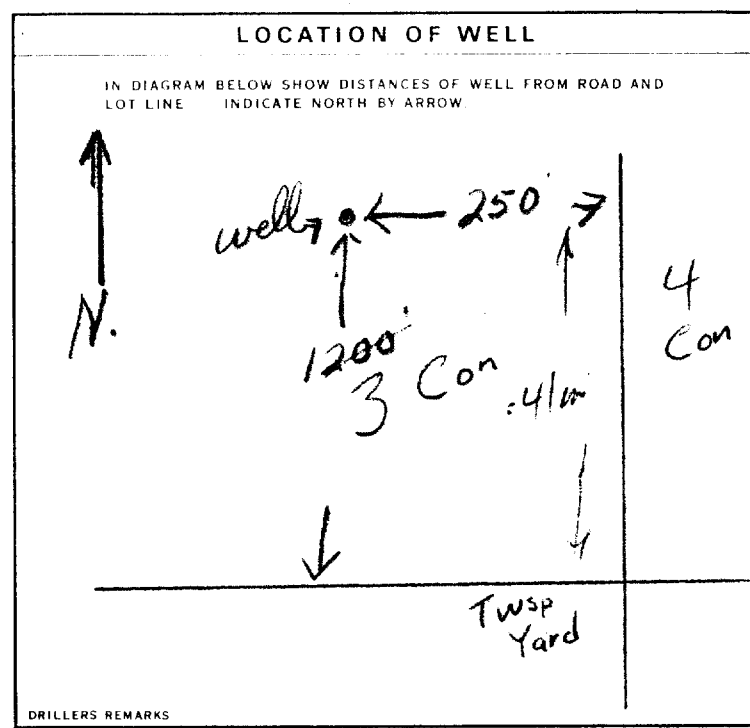
SIZE OF OPENING: 020 DIAMETER: 06000 LENGTH: 03 FEET
 MATERIAL AND TYPE: S.S. DEPTH TO TOP OF SCREEN: 0149 FEET

(61) **PLUGGING & SEALING RECORD**

| DEPTH SET AT FEET | FEET | MATERIAL AND TYPE | CEMENT GROUT LEAD PACKER ETC. |
|-------------------|-------|-------------------|-------------------------------|
| 10-13 | 14-17 | | |
| 18-21 | 22-25 | | |
| 26-29 | 30-33 | | |

(71) **PUMPING TEST**

PUMPING TEST METHOD: 1 PUMP 2 BAILER
 PUMPING RATE: 0010 GPM DURATION OF PUMPING: 02 HOURS 00 MINS
 WATER LEVELS DURING PUMPING: 19-21: 100 FEET, 22-24: 120 FEET, 26-28: 100 FEET, 29-31: FEET, 32-34: FEET, 35-37: FEET
 PUMP INTAKE SET AT: 125 FEET
 RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: 125 FEET
 RECOMMENDED PUMPING RATE: 0009 GPM



FINAL STATUS OF WELL: 1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
 2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
 3 TEST HOLE 7 UNFINISHED
 4 RECHARGE WELL

WATER USE: 1 DOMESTIC 5 COMMERCIAL
 2 STOCK 6 MUNICIPAL
 3 IRRIGATION 7 PUBLIC SUPPLY
 4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 9 NOT USED

METHOD OF DRILLING: 1 CABLE TOOL 6 BORING
 2 ROTARY (CONVENTIONAL) 7 DIAMOND
 3 ROTARY (REVERSE) 8 JETTING
 4 ROTARY (AIR) 9 DRIVING
 5 AIR PERCUSSION

CONTRACTOR: SAUDER WELL DRILLING LTD. LICENCE NUMBER: 4743
 ADDRESS: R.R. # 4 Uxbridge, Ontario LOC 1K0
 NAME OF DRILLER OR BORER: Ab Sauder LICENCE NUMBER: 4743
 SIGNATURE OF CONTRACTOR: Ab. Sauder SUBMISSION DATE: DAY 5 MO 11 YR 81

OFFICE USE ONLY: DATA SOURCE: 1 CONTRACTOR: 4743 DATE RECEIVED: 09 11 81
 DATE OF INSPECTION: INSPECTOR: REMARKS: loc only 02/2/82 CSS.S8



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

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1909336

MUNICIPALITY 1901

CON.

| | | | |
|---|--|---|--------------------|
| COUNTY OR DISTRICT Durham | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Hwybridge (Scott) | CON. BLOCK, TRACT, SURVEY ETC. 4 | LOT 17 |
| ADDRESS 11299 Conc 4 1 Zephyr, ON L0E 1T0 | | DATE COMPLETED DAY 23 MO 08 YR 88 | |
| NG 9.2898 | RC 0.255 | ELEVATION 0.255 | RC 0.255 |

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------------|---------------------|--------------|----|
| | | | | FROM | TO |
| Brown | Sand | Stone, Clay, Boulders | Hard, Layered | 0 | 20 |
| Brown | Sand | | Coarse, Clean | 20 | 40 |
| | | R Plan 40R9170 pt 4,5 | | | |

31

32

41 WATER RECORD

| WATER FOUND AT - FEET | KIND OF WATER | | | | | |
|-----------------------|---|------------------------------------|-------------------------------------|--------------------------------|----------------------------|----------------------------|
| 10-13 40 | 1 <input checked="" type="checkbox"/> FRESH | 3 <input type="checkbox"/> SULPHUR | 4 <input type="checkbox"/> MINERALS | 5 <input type="checkbox"/> GAS | 6 <input type="checkbox"/> | 7 <input type="checkbox"/> |
| 15-18 | 1 <input type="checkbox"/> FRESH | 3 <input type="checkbox"/> SULPHUR | 4 <input type="checkbox"/> MINERALS | 5 <input type="checkbox"/> GAS | 6 <input type="checkbox"/> | 7 <input type="checkbox"/> |
| 20-23 | 1 <input type="checkbox"/> FRESH | 3 <input type="checkbox"/> SULPHUR | 4 <input type="checkbox"/> MINERALS | 5 <input type="checkbox"/> GAS | 6 <input type="checkbox"/> | 7 <input type="checkbox"/> |
| 25-28 | 1 <input type="checkbox"/> FRESH | 3 <input type="checkbox"/> SULPHUR | 4 <input type="checkbox"/> MINERALS | 5 <input type="checkbox"/> GAS | 6 <input type="checkbox"/> | 7 <input type="checkbox"/> |
| 30-33 | 1 <input type="checkbox"/> FRESH | 3 <input type="checkbox"/> SULPHUR | 4 <input type="checkbox"/> MINERALS | 5 <input type="checkbox"/> GAS | 6 <input type="checkbox"/> | 7 <input type="checkbox"/> |

51 CASING & OPEN HOLE RECORD

| INSIDE DIAM. INCHES | MATERIAL | WALL THICKNESS INCHES | DEPTH - FEET | |
|---------------------|---|-----------------------|--------------|-------|
| | | | FROM | TO |
| 6 1/2 | 1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC | 188 | 0 | 34 |
| 17-18 | 1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC | | | 20-23 |
| 24-25 | 1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC | | | 27-30 |

SCREEN

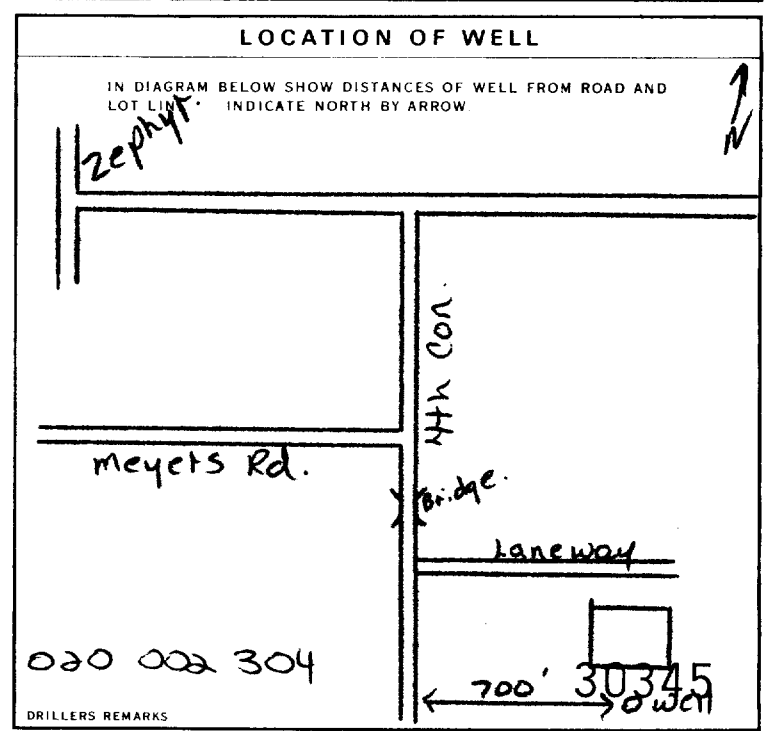
| | | |
|--|-----------------------------|--|
| SIZE(S) OF OPENING (SLOT NO.) 16 | DIAMETER 6 INCHES | LENGTH 6 FEET |
| MATERIAL AND TYPE Johnson S/S | | DEPTH TO TOP OF SCREEN 34 FEET |

61 PLUGGING & SEALING RECORD

| DEPTH SET AT - FEET | | MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.) |
|---------------------|-------|---|
| FROM | TO | |
| 30 | 34 | K. Packer top 4' |
| 18-21 | 22-25 | screen nipple |

71 PUMPING TEST

| | | |
|---|--|--|
| PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER | PUMPING RATE 10 GPM | DURATION OF PUMPING 1 <input type="checkbox"/> 15-16 HOURS 17-18 MINS |
| STATIC LEVEL 25 FEET | WATER LEVEL END OF PUMPING 36 FEET | WATER LEVELS DURING PUMPING 15 MINUTES 36 FEET 30 MINUTES 36 FEET 45 MINUTES 36 FEET 60 MINUTES 36 FEET |
| IF FLOWING, GIVE RATE GPM | PUMP INTAKE SET AT 36 FEET | WATER AT END OF TEST 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY |
| RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP | RECOMMENDED PUMP SETTING 36 FEET | RECOMMENDED PUMPING RATE 8 GPM |



FINAL STATUS OF WELL

| | |
|--|---|
| 1 <input checked="" type="checkbox"/> WATER SUPPLY | 6 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY |
| 2 <input type="checkbox"/> OBSERVATION WELL | 8 <input type="checkbox"/> ABANDONED POOR QUALITY |
| 3 <input type="checkbox"/> TEST HOLE | 7 <input type="checkbox"/> UNFINISHED |
| 4 <input type="checkbox"/> RECHARGE WELL | 9 <input type="checkbox"/> DEWATERING |

WATER USE

| | |
|--|--|
| 1 <input checked="" type="checkbox"/> DOMESTIC | 5 <input type="checkbox"/> COMMERCIAL |
| 2 <input type="checkbox"/> STOCK | 6 <input type="checkbox"/> MUNICIPAL |
| 3 <input type="checkbox"/> IRRIGATION | 7 <input type="checkbox"/> PUBLIC SUPPLY |
| 4 <input type="checkbox"/> INDUSTRIAL | 8 <input type="checkbox"/> COOLING OR AIR CONDITIONING |
| 9 <input type="checkbox"/> NOT USED | |

METHOD OF CONSTRUCTION

| | |
|---|--|
| 1 <input type="checkbox"/> CABLE TOOL | 6 <input type="checkbox"/> BORING |
| 2 <input checked="" type="checkbox"/> ROTARY (CONVENTIONAL) | 7 <input type="checkbox"/> DIAMOND |
| 3 <input type="checkbox"/> ROTARY (REVERSE) | 8 <input type="checkbox"/> JETTING |
| 4 <input type="checkbox"/> ROTARY (AIR) | 9 <input type="checkbox"/> DRIVING |
| 5 <input type="checkbox"/> AIR PERCUSSION | 10 <input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER |

| | |
|--|--|
| NAME OF WELL CONTRACTOR Roger Roadway Ent., Ltd. | WELL CONTRACTOR'S LICENCE NUMBER 1413 |
| ADDRESS Box 397 Sutton West, ON L0E 1R0 | |
| NAME OF WELL TECHNICIAN Grant Roadway | WELL TECHNICIAN'S LICENCE NUMBER T0029 |
| SIGNATURE OF TECHNICIAN/CONTRACTOR <i>Roger Roadway</i> | SUBMISSION DATE DAY 23 MO 08 YR 88 |

| | | |
|----------------------------|---------------------------|-------------------------------------|
| DATA SOURCE 1413 | CONTRACTOR 1413 | DATE RECEIVED SEP 20 1988 |
| DATE OF INSPECTION | INSPECTOR | |
| REMARKS | | |

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1910420

MUNICIP. 19011

CON. COM.

03

COUNTY OR DISTRICT: DURHAM
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: WYBRIDGE (Scott)
CON. BLOCK, TRACT, SURVEY, ETC: 3
LOT: 12 (13)
INDFORD ONTARIO 10520
DATE COMPLETED: DAY 18 MO 01 YR 90
ELEVATION: 226.3

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------|---------------------|--------------|-----|
| | | | | FROM | TO |
| BROWN | LOAM | | FIRM | 0 | 1 |
| BROWN | CLAY | SAND | SOFT | 1 | 13 |
| GREY | CLAY | BOULDERS | HARD | 13 | 26 |
| BROWN | CLAY | GRAVEL | FIRM | 26 | 82 |
| BROWN | CLAY | SAND | | 82 | 85 |
| BLACK | GRAVEL | | LOOSE, DRY | 85 | 117 |
| BROWN | SAND | | COARSE | 117 | 119 |

31
32

41 WATER RECORD

| WATER FOUND AT - FEET | KIND OF WATER |
|-----------------------|--|
| 117 | 1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS |

51 CASING & OPEN HOLE RECORD

| INSIDE DIAM INCHES | MATERIAL | WALL THICKNESS INCHES | DEPTH - FEET | |
|--------------------|---|-----------------------|--------------|------|
| | | | FROM | TO |
| 6 1/4 | 1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC | .188 | 18" AG | 117' |

SCREEN

| SIZE (S) OF OPENING (SLOT NO) | DIAMETER | LENGTH |
|-------------------------------|----------|--------|
| 30 | 6 INCHES | 3 FEET |

MATERIAL AND TYPE: STAINLESS STEEL
DEPTH TO TOP OF SCREEN: 116 FEET

61 PLUGGING & SEALING RECORD

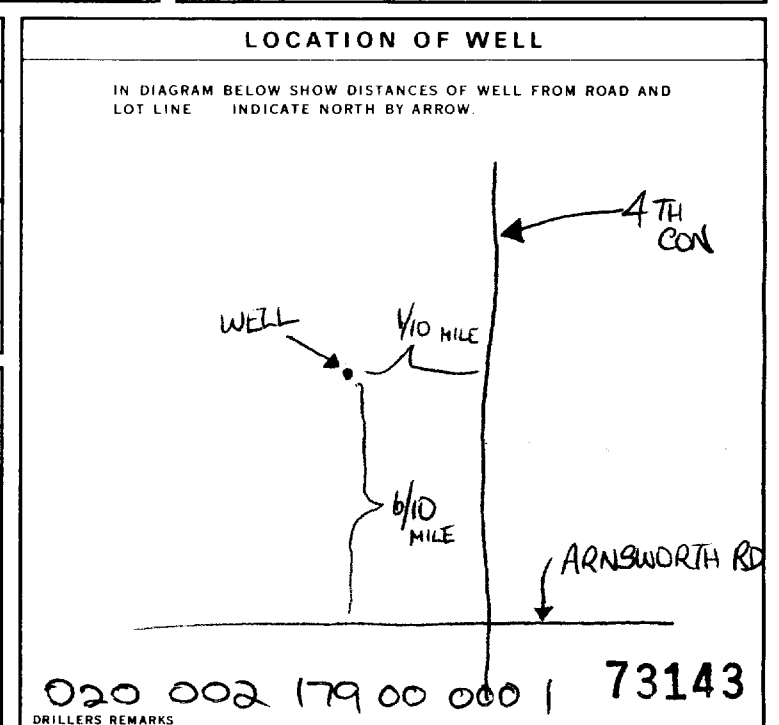
| DEPTH SET AT - FEET | MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC) |
|---------------------|---|
| 10-13 | 14-17 |
| 18-21 | 22-25 |
| 26-29 | 30-33 |

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER
PUMPING RATE: 10 GPM
DURATION OF PUMPING: 2 HOURS 30 MINS

| STATIC LEVEL | WATER LEVEL END OF PUMPING | WATER LEVELS DURING | | | | | |
|--------------|----------------------------|---------------------|---------------------|---------------------|---------------------|--|--|
| 40 FEET | 70 FEET | 15 MINUTES: 40 FEET | 30 MINUTES: 40 FEET | 45 MINUTES: 40 FEET | 60 MINUTES: 40 FEET | | |

RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: 80 FEET
RECOMMENDED PUMPING RATE: 10 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL
5 ABANDONED, INSUFFICIENT SUPPLY
6 ABANDONED POOR QUALITY
7 UNFINISHED
8 DEWATERING

WATER USE

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL
5 COMMERCIAL
6 MUNICIPAL
7 PUBLIC SUPPLY
8 COOLING OR AIR CONDITIONING
9 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION
6 BORING
7 DIAMOND
8 JETTING
9 DRIVING
10 DIGGING
11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: SAUDER WELL DRILLING LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 7743
ADDRESS: RR# 4 WYBRIDGE ONT.
NAME OF WELL TECHNICIAN: RICK SAUDER
WELL TECHNICIAN'S LICENCE NUMBER: 10571
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 19 MO 01 YR 90

OFFICE USE ONLY

DATA SOURCE: 4743
DATE RECEIVED: FEB 02 1990
DATE OF INSPECTION: _____
INSPECTOR: _____
REMARKS: _____

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1916519

Municipality
19011

Con. CON 03

County or District: [Redacted] Township/Borough/City/Town/Village: Uxbridge
 Con block tract survey, etc.: 3 Lot: 13
 Address of Well Location: 10469 conc Rd 3 Uxbridge On Date completed: 23 05 03
 day month year

21 Zone Easting Northing RC Elevation Basin Code
 10 12 17 18 24 25 26 30 31 ii iii iv

| General colour | Most common material | Other materials | General description | Depth - feet | |
|----------------|----------------------|-----------------|---------------------|--------------|----|
| | | | | From | To |
| | | | | | |
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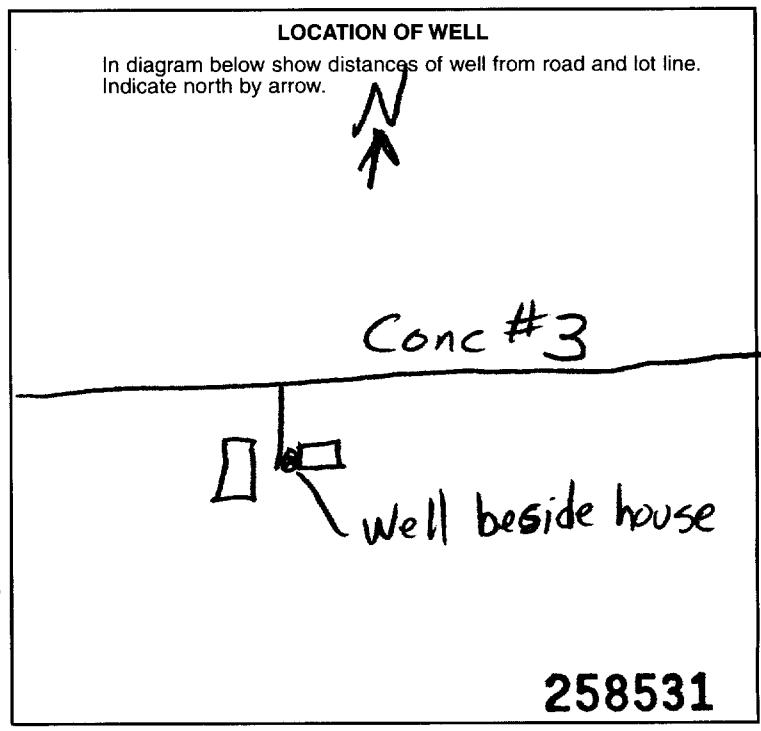
| Water found at - feet | Kind of water |
|-----------------------|---|
| 10-13 | 1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 14 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 15 6 <input type="checkbox"/> Gas |
| 15-18 | 1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 19 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 20 6 <input type="checkbox"/> Gas |
| 20-23 | 1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 24 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 25 6 <input type="checkbox"/> Gas |
| 25-28 | 1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 29 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 30 6 <input type="checkbox"/> Gas |
| 30-33 | 1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 34 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 35 6 <input type="checkbox"/> Gas |

| Inside diam inches | Material | Wall thickness inches | Depth - feet | |
|--------------------|---|-----------------------|--------------|-------|
| | | | From | To |
| 10-11 | 1 <input type="checkbox"/> Steel 12 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic | | | 13-16 |
| 17-18 | 1 <input type="checkbox"/> Steel 19 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic | | | 20-23 |
| 24-25 | 1 <input type="checkbox"/> Steel 26 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic | | | 27-30 |

| Sizes of opening (Slot No.) | Diameter | Length |
|-----------------------------|----------|--------|
| | inches | feet |
| | | feet |
| | | feet |

| Depth set at - feet | | Material and type (Cement grout, bentonite, etc.) |
|---------------------|-------|---|
| From | To | |
| 10-13 | 14-17 | |
| 18-21 | 22-25 | |
| 26-29 | 30-33 | 80 |

| | | |
|---|---------------------------------------|--|
| Pumping test method 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer | Pumping rate 12 GPM | Duration of pumping 2 Hours 0 Mins |
| Static level -1 feet | Water level end of pumping 70 feet | Water levels during 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery |
| 15 minutes 70 feet | 30 minutes 70 feet | 45 minutes 70 feet |
| 60 minutes 70 feet | | |
| If flowing give rate 1 GPM | Pump intake set at 80 feet | Water at end of test <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy |
| Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep | Recommended pump setting 80 feet | Recommended pump rate 12 GPM |



FINAL STATUS OF WELL

1 Water supply 5 Abandoned, insufficient supply 9 Unfinished
 2 Observation well 6 Abandoned, poor quality 10 Replacement well
 3 Test hole 7 Abandoned (Other)
 4 Recharge well 8 Dewatering

WATER USE

1 Domestic 5 Commercial 9 Not use
 2 Stock 6 Municipal 10 Other
 3 Irrigation 7 Public supply
 4 Industrial 8 Cooling & air conditioning

METHOD OF CONSTRUCTION

1 Cable tool 5 Air percussion 9 Driving
 2 Rotary (conventional) 6 Boring 10 Digging
 3 Rotary (reverse) 7 Diamond 11 Other
 4 Rotary (air) 8 Jetting

Name of Well Contractor: FREELANCE BORING + DRILLING LTD 2214
 Address: P.O. Box 89 COBOURG K9A4K2
 Name of Well Technician: D. COBURN
 Well Contractor's Licence No.: 2214
 Well Technician's Licence No.: 70279
 Submission date: 02 mo 06 yr 03

MINISTRY USE ONLY

Data source: 2214 Date received: JUN 10 2003
 Date of inspection: Inspector:
 Remarks: CSS.ES3

Instructions for Completing Form

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference. All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form. Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203. All metre measurements shall be reported to 1/10th of a metre. Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only
MUN 19001 CON LOT

Durham Scugog p.80,81
RR#/Street Number/Name 42 Park St.
City/Town/Village Caesarea LOB 1EO
Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing
Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To

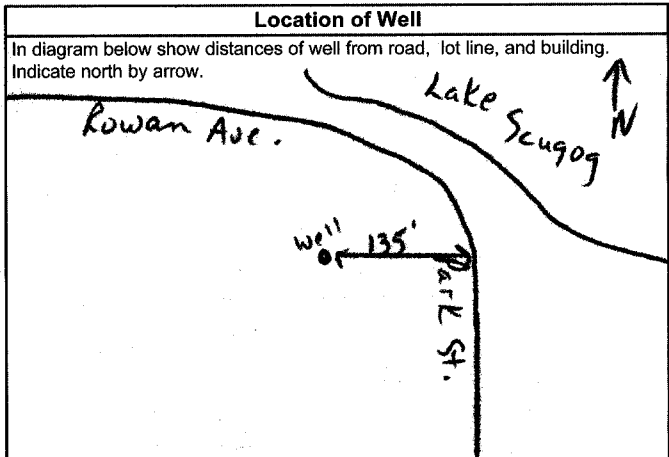
Hole Diameter
Depth Metres Diameter Centimetres
From To

Construction Record
Inside diam centimetres Material Wall thickness centimetres Depth Metres From To
Casing
Screen
No Casing or Screen
Open hole

Test of Well Yield
Pumping test method Draw Down Recovery
Time min Water Level Metres Time min Water Level Metres
Pump intake set at - (metres) Static Level 2.43
Pumping rate - (litres/min) 1 1
Duration of pumping hrs + min 2 2
Final water level end of pumping metres 3 3
Recommended pump type: Shallow Deep
Recommended pump depth metres 4 4
Recommended pump rate (litres/min) 10 10 15 15 20 20 25 25
If flowing give rate - (litres/min) 30 30 40 40 50 50 60 60
If pumping discontinued, give reason.

Water Record
Water found at Metres Kind of Water
Fresh Sulphur Gas Salty Minerals
Other:
After test of well yield, water was Clear and sediment free Other, specify
Chlorinated Yes No

Plugging and Sealing Record
Annular space Abandonment
Depth set at - Metres From To Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres)
3.35 3.23 Holeplug
3.23 2.43 Benseal, Clay
2.43 2.31 Holeplug
2.31 0.91 Benseal, Clay
0.91 0 Clay
Method of Construction
Water Use
Final Status of Well



Audit No. Z 19228 Date Well Completed 2004 10 12
Was the well owner's information package delivered? Yes No
Date Delivered

Well Contractor/Technician Information
Name of Well Contractor Roger Roadway Ent., Ltd. Well Contractor's Licence No. 1413
Business Address (street name, number, city etc.) Box 397 Sutton West, ON L0E 1R0
Name of Well Technician (last name, first name) Latimer, Brian Well Technician's Licence No. T-2586
Signature of Technician/Contractor Date Submitted 2004 11 11

Ministry Use Only
Data Source Contractor 1413
Date Received NOV 17 2004 Date of Inspection
Remarks Well Record Number 1917313

UTM 117Z 1642032E



GROUND WATER BRANCH
46 No. 244
JAN 29 1962
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

Elev. 5R

WATER WELL RECORD

Basin 22
County or District Ontario

Township, Village, Town or City Scott
Date completed 7 Dec 61
(day month year)

Con. 4 Lot 17
Owner [redacted]
(print in block letters)

Address RR#1 Zephyr

Casing and Screen Record

Pumping Test

Inside diameter of casing 3 1/2"
Total length of casing 27'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 3 1/2"

Static level 12'
Test-pumping rate 4 G.P.M.
Pumping level
Duration of test pumping
Water clear or cloudy at end of test clear
Recommended pumping rate 2 G.P.M.
with pump setting of _____ feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

Dark topsoil
yellow clay
blue clay large stones sand
blue clay
sand (dark grey)

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0

1

1

11

11

20

20

25

25

27

25'

FRESH

For what purpose(s) is the water to be used? farm
Is well on upland, in valley, or on hillside? hillside

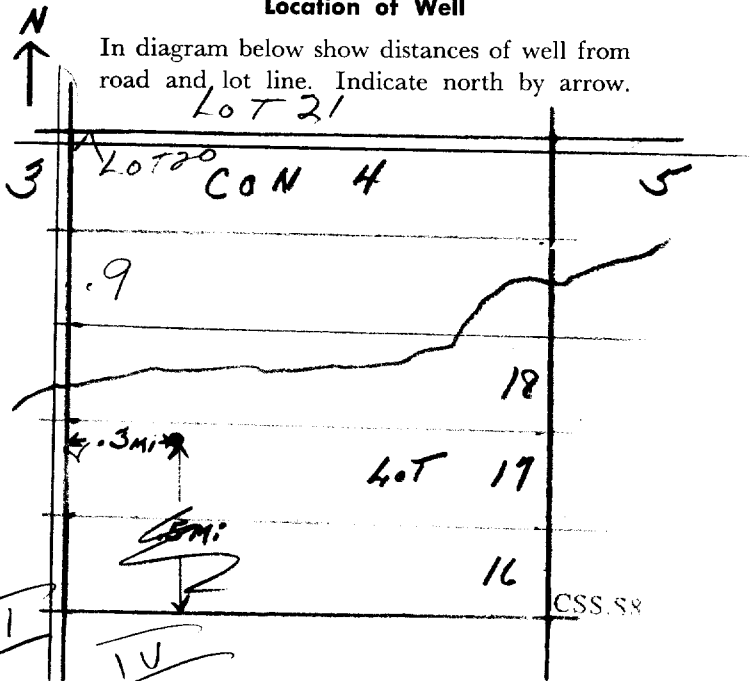
Drilling or Boring Firm Wilson's Well Digging
Address RR#2 Sornby Ont

Licence Number 1
Name of Driller or Borer name

Address
Date Jan 17/62
William Wilson
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



UTM 117z 641640E



WATER RESOURCES DIVISION 46
OCT 21 1964
ONTARIO WATER RESOURCES COMMISSION

Co. 570 418192 757N The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 22 ONTARIO County or District Scott Township, Village, Town or City

Con. 4 Lot 17 Date completed 18 Aug 64 (day month year)

Owner S.S. # 9 Scott School (print in block letters) Address ZEPHER

Casing and Screen Record

Pumping Test

Inside diameter of casing 30"
Total length of casing 20"
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 36"

Static level 9'
Test-pumping rate 1 G.P.M.
Pumping level
Duration of test pumping
Water clear or cloudy at end of test Clear
Recommended pumping rate 1 G.P.M.
with pump setting of 18 feet below ground surface

Well Log

Water Record

| Overburden and Bedrock Record | From ft. | To ft. | Depth(s) at which water(s) found | Kind of water (fresh, salty, sulphur) |
|-------------------------------|----------|--------|----------------------------------|---------------------------------------|
| Sand | 0' | 10' | 8' | Fresh |
| Blue Clay | 10' | 20' | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

For what purpose(s) is the water to be used? School

Is well on upland, in valley, or on hillside? Valley

Drilling or Boring Firm Northern Well Drilling

Address R.R. 3 Newmarket

Licence Number 56

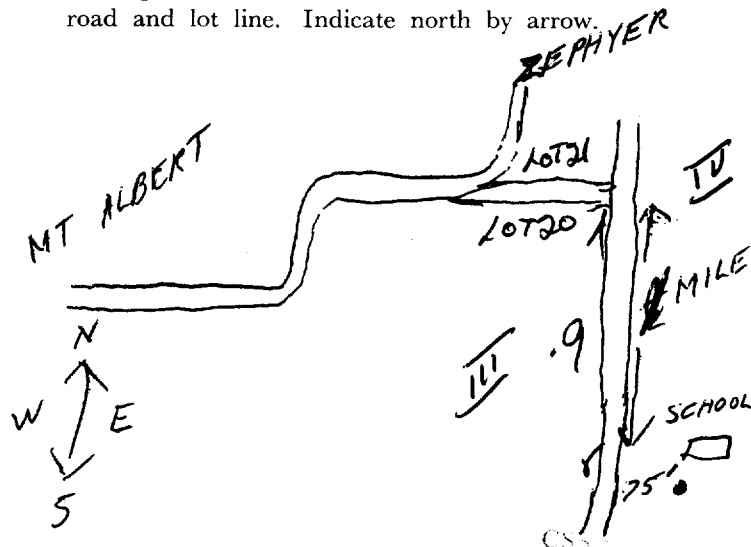
Name of Driller or Borer Jim O'Pouch

Address 15 Mary St. Aurora

Date Aug 20/64
Jim O'Pouch
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.





The Ontario Water Resources Commission Act

WATER WELL RECORD

31D3E

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11 4604551- 46006 90N 09

COUNTY OR DISTRICT: ONTARIO TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: SCOTT 3 9 BLOCK, TRACT, SURVEY, ETC.: 4 9 LOT: 25-27 011

OWNER (SURNAME FIRST): [REDACTED] ADDRESS: 1 ZEPHYR ONT DATE COMPLETED: 10 26 70 DAY: 26 MO: OCT YR: 70

RC: 90800 4 0925 5 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------|---------------------|--------------|-----|
| | | | | FROM | TO |
| BROWN | CLAY | STONE | HARD | 0 | 65 |
| RED | SAND | GRAVEL | DRY | 65 | 100 |
| RED | SAND | | WET | 100 | 154 |

31 00510512 0154709

32

41 WATER RECORD

| WATER FOUND AT - FEET | KIND OF WATER |
|-----------------------|---|
| 0154 | 1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |
| | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL |

51 CASING & OPEN HOLE RECORD

| INSIDE DIAM. INCHES | MATERIAL | WALL THICKNESS INCHES | DEPTH - FEET | |
|---------------------|---|-----------------------|--------------|-------|
| | | | FROM | TO |
| 5 1/4 | 1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE | 188 | 0 | 154 |
| 05 | 1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE | | | 0150 |
| | 1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE | | | 20-23 |
| | 1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE | | | 27-30 |

61 PLUGGING & SEALING RECORD

| DEPTH SET AT - FEET | MATERIAL AND TYPE |
|---------------------|---|
| 0 | 1 <input checked="" type="checkbox"/> LEAD PACKER |

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

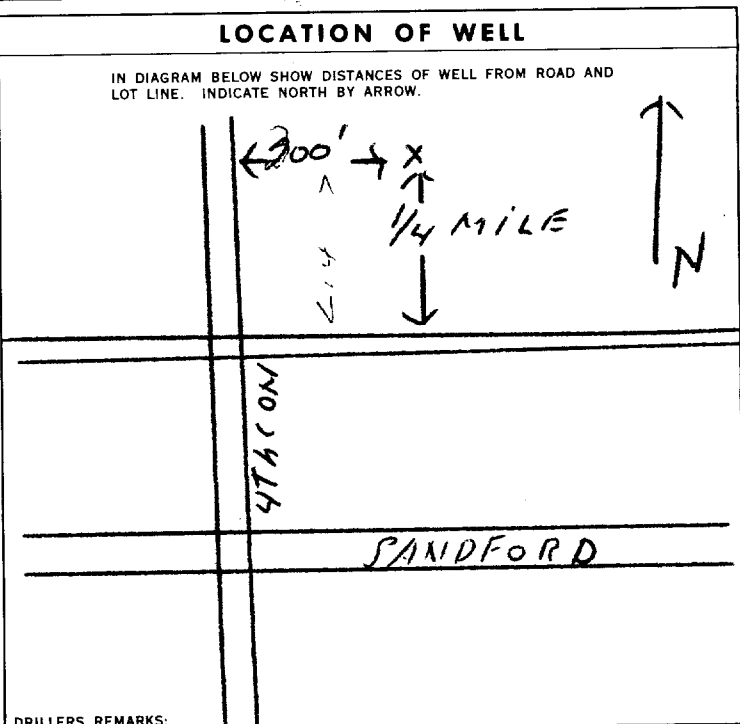
PUMPING RATE: 0010 GPM. DURATION OF PUMPING: 02 HOURS 00 MINS.

| STATIC LEVEL | WATER LEVEL END OF PUMPING | WATER LEVELS DURING PUMPING | | | |
|--------------|----------------------------|-----------------------------|----------------------|----------------------|----------------------|
| 100 FEET | 104 FEET | 15 MINUTES: 104 FEET | 30 MINUTES: 104 FEET | 45 MINUTES: 104 FEET | 60 MINUTES: 104 FEET |

PUMP INTAKE SET AT: 130 FEET. WATER AT END OF TEST: 130 FEET.

RECOMMENDED PUMP TYPE: SHALLOW DEEP. RECOMMENDED PUMP SETTING: 130 FEET. RECOMMENDED PUMPING RATE: 0007 GPM.

50-53 002.5 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
9 NOT USED

METHOD OF DRILLING

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: R. J. Broadway LICENCE NUMBER: 1413
ADDRESS: 397 Button w ont.
NAME OF DRILLER OR BORER: Morn Powell LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: R. J. Broadway SUBMISSION DATE: 26 OCT 70

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1413 DATE RECEIVED: 031170
DATE OF INSPECTION: INSPECTOR:
REMARKS: CSS.S8 P P
J.B. WI



Ontario

WATER WELL RECORD

310/3E

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

4605623

MUNICIPALITY 460.06

CON. C10N

103

COUNTY OR DISTRICT: ONTARIO TOWNSHIP, BOROUGH, CITY, VILLAGE: SCOTT

OWNER (SURNAME FIRST): BELPARK CONST ADDRESS: RICHMOND HILL ONTARIO

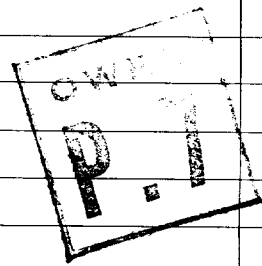
DATE COMPLETED: DAY 10 MO. JULY YR. 73

LOT: 012

CON., BLOCK, TRACT, SUBDIVISION: GOR 111

ZONE: U17 EASTING: 642015 NORTHING: 4890637 RC: 4 ELEVATION: 0945 RC: 5 BASIN CODE: 22

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------|---------------------|--------------|-----|
| | | | | FROM | TO |
| | CLAY | | | 0 | 20 |
| | SANDY CLAY | | | 20 | 50 |
| | CLAY | | | 50 | 130 |
| | FINE SAND | | | 130 | 143 |



31 0020 05 0050 0528 0130 051 0143 08

32

41 WATER RECORD

| WATER FOUND AT - FEET | KIND OF WATER |
|-----------------------|--|
| 10-13 | <input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL |
| 15-18 | <input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL |
| 20-23 | <input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL |
| 25-28 | <input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL |
| 30-33 | <input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL |

51 CASING & OPEN HOLE RECORD

| INSIDE DIAM. INCHES | MATERIAL | WALL THICKNESS INCHES | DEPTH - FEET |
|---------------------|----------|-----------------------|--------------|
| 10-11 | STEEL | 0.188 | 0 939 |
| 17-18 | STEEL | | |
| 24-25 | STEEL | | |

SCREEN

SIZE(S) OF OPENING (SLOT NO.): #018

DIAMETER: 06.000 INCHES

LENGTH: 04 FEET

MATERIAL AND TYPE: S.S.

DEPTH TO TOP OF SCREEN: 0139 FEET

61 PLUGGING & SEALING RECORD

| DEPTH SET AT - FEET | MATERIAL AND TYPE |
|---------------------|-------------------|
| 10-13 | |
| 18-21 | |
| 26-29 | |

71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE: 0020 GPM

DURATION OF PUMPING: 02 HOURS 00 MINS

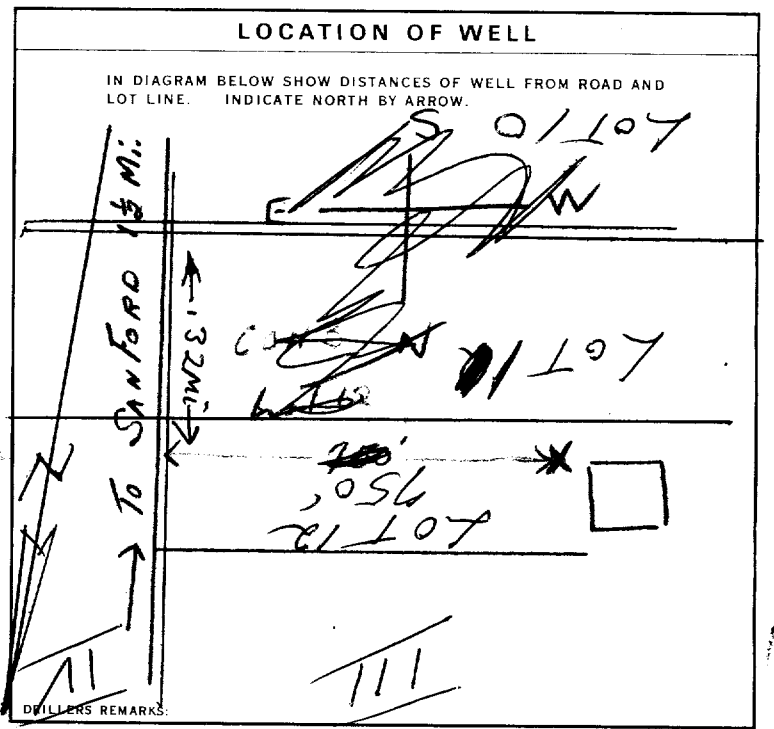
| STATIC LEVEL | WATER LEVEL END OF PUMPING | WATER LEVELS DURING |
|--------------|----------------------------|--|
| 070 FEET | 120 FEET | 15 MINUTES: 098 FEET, 30 MINUTES: 100 FEET, 45 MINUTES: 120 FEET, 60 MINUTES: 130 FEET |

PUMP INTAKE SET AT: 120 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 120 FEET

RECOMMENDED PUMPING RATE: 0015 GPM



54 FINAL STATUS OF WELL: WATER SUPPLY

55-56 WATER USE: 01 DOMESTIC

57 METHOD OF DRILLING: 1 CABLE TOOL

CONTRACTOR: WILSON WATER WELLS LTD 5459

ADDRESS: RR#2 GORMLEY

NAME OF DRILLER OR BORER: NORM RENNIE

SIGNATURE OF CONTRACTOR: William Wilson

SUBMISSION DATE: DAY 08 MO. 11 YR. 73

OFFICE USE ONLY

DATA SOURCE: 1

CONTRACTOR: 5459

DATE RECEIVED: 08 11 73

DATE OF INSPECTION: June 21/73

INSPECTOR: J.S.

REMARKS: CSS.S8 P/J.B.



Ontario

WATER WELL RECORD

312/3E

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 4606366

MUNICIPALITY: 46.006 CON. CAN LOT: 03

COUNTY OR DISTRICT: ONTARIO TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: SCOTT
 OWNER (SURNAME FIRST): ENG. JOAN OF ARK ADDRESS: RRI ZEPHYR.
 DATE COMPLETED: DAY 27 MO OCT YR 75

ZONE: 17 EASTING: 641631 NORTHING: 4892157 RC: 4 ELEVATION: 0825 RC: 5 BASIN CODE: 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

| GENERAL COLOUR | MOST COMMON MATERIAL | OTHER MATERIALS | GENERAL DESCRIPTION | DEPTH - FEET | |
|----------------|----------------------|-----------------|---------------------|--------------|----|
| | | | | FROM | TO |
| BLACK | LOAM | | LOOSE | 0 | 1 |
| BROWN | SAND | | DRY | 1 | 4 |
| BROWN | CLAY | | DENSE | 4 | 17 |
| BROWN | GRAVEL | | POROUS | 17 | 24 |

31 0001802 0004628 0017605 0024611
 32

41 WATER RECORD

| | | |
|-------|--|-------|
| 10-13 | 1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR | 14 |
| | 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL | |
| 15-18 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR | 19 |
| | 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL | |
| 20-23 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR | 24 |
| | 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL | |
| 25-28 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR | 29 |
| | 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL | |
| 30-33 | 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR | 34-40 |
| | 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL | |

51 CASING & OPEN HOLE RECORD

| DEPTH - FEET | MATERIAL | WALL THICKNESS INCHES | DEPTH - FEET | |
|--------------|--|-----------------------|--------------|-------|
| | | | FROM | TO |
| 0-17.8 | 1 <input checked="" type="checkbox"/> STEEL 12 | 1.88 | 0 | 17.8 |
| 17.8-20.24 | 2 <input type="checkbox"/> GALVANIZED | | | 20.24 |
| 20.24-27.30 | 3 <input type="checkbox"/> CONCRETE | | | 27.30 |
| 27.30-30 | 4 <input type="checkbox"/> OPEN HOLE | | | 30 |

SCREEN

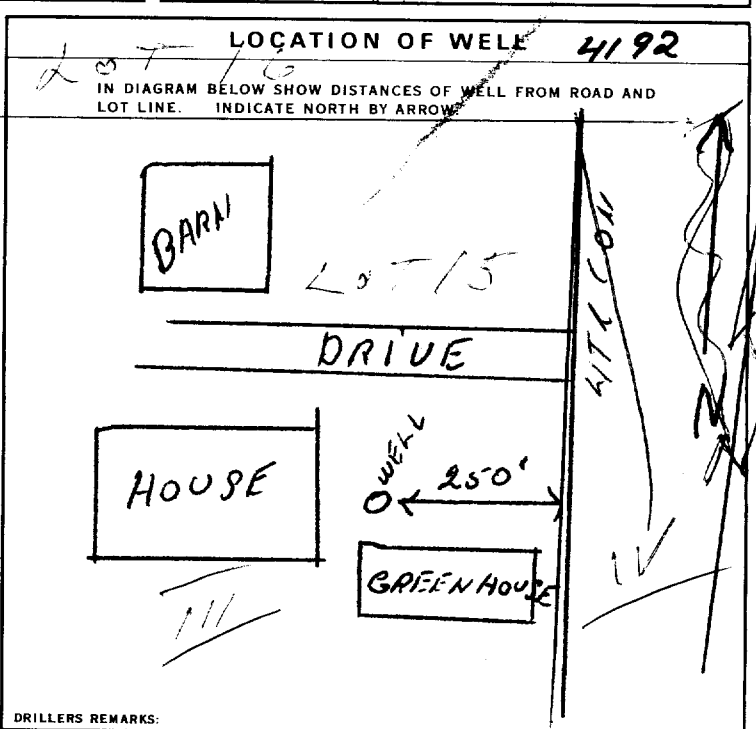
| | | |
|-------------------------------|-----------------------------|-------------|
| SIZE(S) OF OPENING (SLOT NO.) | DIAMETER INCHES | LENGTH FEET |
| | | |
| MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET | |
| | 41-44 | |

61 PLUGGING & SEALING RECORD

| DEPTH SET AT - FEET | MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.) |
|---------------------|---|
| 10-13 | 14-17 |
| 18-21 | 22-25 |
| 26-29 | 30-33 |

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER
 PUMPING RATE: 002 GPM
 DURATION OF PUMPING: 01 HOURS 30 MINS
 WATER LEVELS DURING PUMPING:
 15 MINUTES: 015 FEET
 30 MINUTES: 015 FEET
 45 MINUTES: 015 FEET
 60 MINUTES: 015 FEET
 PUMP INTAKE SET AT: 20 FEET
 WATER AT END OF TEST: 1 CLEAR 2 CLOUDY
 RECOMMENDED PUMP TYPE: 1 SHALLOW 2 DEEP
 RECOMMENDED PUMP SETTING: 020 FEET
 RECOMMENDED PUMPING RATE: 0000 GPM
 002.0 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL: 1 WATER SUPPLY
 2 OBSERVATION WELL
 3 TEST HOLE
 4 RECHARGE WELL
 5 ABANDONED, INSUFFICIENT SUPPLY
 6 ABANDONED, POOR QUALITY
 7 UNFINISHED

WATER USE: 1 DOMESTIC
 2 STOCK
 3 IRRIGATION
 4 INDUSTRIAL
 5 OTHER
 6 COMMERCIAL
 7 MUNICIPAL
 8 PUBLIC SUPPLY
 9 COOLING OR AIR CONDITIONING
 10 NOT USED

METHOD OF DRILLING: 1 CABLE TOOL
 2 ROTARY (CONVENTIONAL)
 3 ROTARY (REVERSE)
 4 ROTARY (AIR)
 5 AIR PERCUSSION
 6 BORING
 7 DIAMOND
 8 JETTING
 9 DRIVING

CONTRACTOR
 NAME OF WELL CONTRACTOR: R.F. BOADWAY ENT LTD. LICENCE NUMBER: 1413
 ADDRESS: BOX 397 SUTTON WEST ONT
 NAME OF DRILLER OR BORER: R. F. BOADWAY
 SIGNATURE OF CONTRACTOR: R. F. Boadway
 SUBMISSION DATE: DAY 27 MO OCT YR 75

OFFICE USE ONLY
 DATA SOURCE: 1 CONTRACTOR: 1413 DATE RECEIVED: 091875
 DATE OF INSPECTION: Feb. 26/76 INSPECTOR:
 REMARKS:
 CSS.S8 P. 02. WI

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent legal document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

| Ministry Use Only | | | | | | | | | | |
|-------------------|--|--|--|-----|--|--|--|-----|--|--|
| MUN | | | | CON | | | | LOT | | |

DURHAM **OVERBRIDGE** **12915** **3**
 RR#/Street Number/Name: **10360 CON. 4.** City/Town/Village: Site/Compartment/Block/Tract etc.

GPS Reading: NAD **83** Zone **17** Easting **641938** Northing **4991134** Unit Make/Model: **MABELLAW SPARTAN** Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

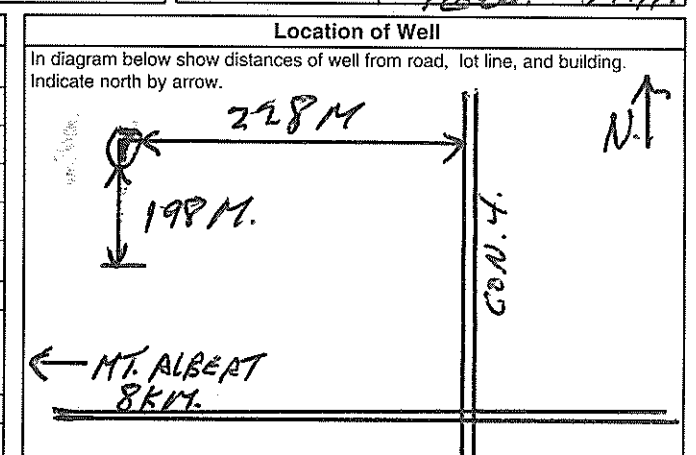
Log of Overburden and Bedrock Materials (see instructions)

| General Colour | Most common material | Other Materials | General Description | Depth Metres | |
|-----------------------|----------------------|-----------------|---------------------|--------------|-------------|
| | | | | From | To |
| BLACK TOP SOIL | | | LOOSE. | 0 | 0.3 |
| BROWN SAND. | | CLAY | MED. | 0.3 | 6. |
| BROWN CLAY | | SAND | MED. | 6 | 18.2 |
| BROWN SAND. | | GRAVEL. | PACKED. | 18.2 | 25.9 |

| Hole Diameter | | | Construction Record | | | | Test of Well Yield | | | | | |
|---|---------------|----------------------|-------------------------|--|----------------------------|-------------|--------------------|---|---------------------------|--------------------|-------------------|--------------------|
| Depth From | Metres To | Diameter Centimetres | Inside diam centimetres | Material | Wall thickness centimetres | Depth From | Metres To | Pumping test method | Draw Down Time min | Water Level Metres | Recovery Time min | Water Level Metres |
| 0 | 6 | 25.4 | | | | | | SUR. PUMP. | | | | |
| 6 | 24 | 16.5 | | | | | | Pump intake set at - (metres) 2.1 | Static Level 14.79 | | | |
| 24 | 25.9 | 15.36 | 15.4 | <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized | 0.477 | 7.7 | 24 | Pumping rate (litres/min) 40 | 1 | 15.74 | 1 | 15.82 |
| Water Record | | | 12.7 | <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized | 0.477 | 21.9 | 24.9 | Duration of pumping 3 hrs + _____ min | 2 | 15.96 | 2 | 14.86 |
| Water found at _____ metres | Kind of Water | | | | | | | Final water level end of pumping 16.11 metres | 3 | 16.03 | 3 | 14.81 |
| <input type="checkbox"/> m <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: | | | 14.25 | <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized | | | | Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep | 4 | 16.06 | 4 | 14.8 |
| <input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: | | | | | | | | Recommended pump depth 2.1 metres | 5 | 16.06 | 5 | 14.8 |
| After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____ | | | | | | | | Recommended pump rate (litres/min) 40 | 10 | 16.06 | 10 | 14.79 |
| Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | If flowing give rate - (litres/min) | 15 | 16.06 | 15 | 14.79 |
| | | | | | | | | 20 | 16.06 | 20 | 14.79 | |
| | | | | | | | | 25 | 16.06 | 25 | 14.79 | |
| | | | | | | | | 30 | 16.06 | 30 | 14.79 | |
| | | | | | | | | 40 | 16.06 | 40 | 14.79 | |
| | | | | | | | | 50 | 16.06 | 50 | 14.79 | |
| | | | | | | | | 60 | 16.06 | 60 | 14.79 | |

Plugging and Sealing Record Annular space Abandonment

| Depth set at - Metres From | To | Material and type (bentonite slurry, neat cement slurry) etc. | Volume Placed (cubic metres) |
|----------------------------|----------|---|------------------------------|
| 0 | 6 | BENTONITE SLURRY. | .18 |



Method of Construction

Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Driving

Water Use

Domestic Industrial Public Supply Other Stock Commercial Not used Irrigation Municipal Cooling & air conditioning

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply Dewatering Test Hole Abandoned, poor quality Replacement well

Audit No. **Z 65318** Date Well Completed **07 12 08**

Was the well owner's information package delivered? Yes No Date Delivered **07 12 08**

Well Contractor/Technician Information

Name of Well Contractor: **E.S. WELL DRILLING.** Well Contractor's Licence No.: **7108**

Business Address (street name, number, city etc.): **632 NORTHLINE RD. FENELON FALLS**

Name of Well Technician (last name, first name): **HOUSTON EARL** Well Technician's Licence No.: **7-1554**

Signature of Technician/Contractor: _____ Date Submitted **08 01 08**

Ministry Use Only

Data Source _____ Contractor _____

Date Received **JAN 07 2008** Date of Inspection _____

Remarks _____ Well Record Number _____

Measurements recorded in: Metric Imperial

ABANDONED.

Address of Well Location (Street Number/Name): **10360 CON. 4**
 County/District/Municipality: **DUPHAM**
 Township: **UXBRIDGE**
 City/Town/Village: **UXBRIDGE**
 Lot: **12 & 13**
 Concession: **3**
 Province: **Ontario**
 Postal Code: **L0C1E0**
 UTM Coordinates Zone: **18** Easting: **317641878** Northing: **4891173**
 Municipal Plan and Sublot Number: **Other**

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) | |
|----------------|----------------------|-----------------|---------------------|--------------|----|
| | | | | From | To |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Annular Space | | |
|---------------------|--|--|
| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m ³ /ft ³) |
| From: 7 To: 14.6 | BENTONITE SLURRY | 0.2 |
| From: 1.5 To: 7.9 | UNSHRINKABLE FILL | 2.91 |

| Method of Construction | Well Use |
|---|--|
| <input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify | <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Livestock <input type="checkbox"/> Test Hole <input type="checkbox"/> Irrigation <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify |

| Construction Record - Casing | | | | Status of Well | |
|------------------------------|--|------------------------|--------------|----------------|--|
| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) | | <input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input checked="" type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify |
| | | | From | To | |
| 12.7 | STEEL | 0.471 | 14.6 | 7 | |
| 76.2 | CONCRETE | | 1.5 | 7.9 | |

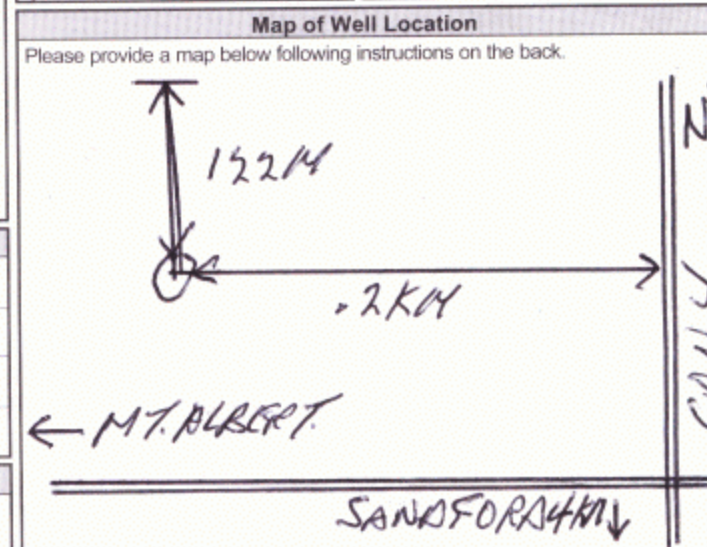
| Construction Record - Screen | | Status of Well | |
|------------------------------|---------------------------------------|----------------|--------------|
| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) |
| | | | From To |

| Water Details | | Hole Diameter | |
|-----------------------------|--|---------------|------------------|
| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify | Depth (m/ft) | Diameter (cm/in) |
| | | From To | |

Well Contractor and Well Technician Information

Business Name of Well Contractor: **E.S. WELL DRILLING**
 Business Address (Street Number/Name): **632 NORTHLINER RD. FERRISVILLE**
 Province: **ONT.** Postal Code: **K0N1N0**
 Well Contractor's Licence No.: **7108**
 Municipality: **KAWARTHO.**
 Business E-mail Address:
 Bus. Telephone No. (inc. area code): **7054542323**
 Name of Well Technician (Last Name, First Name): **HOUSTON EARL**
 Well Technician's Licence No.: **1554**
 Signature of Technician and/or Contractor: *[Signature]*
 Date Submitted: **20080905**

| Results of Well Yield Testing | | | | |
|---|---|--------------------|------------|--------------------|
| After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify | Draw Down | | Recovery | |
| | Time (min) | Water Level (m/ft) | Time (min) | Water Level (m/ft) |
| If pumping discontinued, give reason: | Static Level | | | |
| | 1 | | 1 | |
| | Pump intake set at (m/ft) | 2 | | 2 |
| | Pumping rate (l/min / GPM) | 3 | | 3 |
| | Duration of pumping hrs + min | 4 | | 4 |
| | Final water level end of pumping (m/ft) | 5 | | 5 |
| If flowing give rate (l/min / GPM) | 10 | | 10 | |
| | 15 | | 15 | |
| | 20 | | 20 | |
| | Recommended pump depth (m/ft) | 25 | | 25 |
| | Recommended pump rate (l/min / GPM) | 30 | | 30 |
| | Well production (l/min / GPM) | 40 | | 40 |
| Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 50 | | 50 | |
| | 60 | | 60 | |



Comments:

| Well owner's information package delivered | Date Package Delivered | Ministry Use Only | |
|--|------------------------|--------------------------|--------------------|
| <input checked="" type="checkbox"/> Yes | 20071228 | Audit No. Z 86547 | SEP 16 2008 |
| <input type="checkbox"/> No | 20080808 | Received | |

Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) 10900 Conc. 4 Township Uxbridge (Scott) Lot 15 Concession 3
 County/District/Municipality Durham City/Town/Village Zephyr Province Ontario Postal Code L1O E 1T0
 UTM Coordinates Zone 18 Easting 117623050 Northing 4892672 Municipal Plan and Sublot Number _____ Other _____

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) | |
|----------------|----------------------|-----------------|---------------------|--------------|-----|
| | | | | From | To |
| Brown | Loam | | Soft | 0 | 4 |
| Brown | Clay | | Soft | 4 | 18 |
| Brown | Gravel | Silt | Loose | 18 | 25 |
| Grey | Clay | | Hard | 25 | 125 |
| Brown | Sand | Silt, Gravel | Cemented | 125 | 137 |
| Grey | Clay | | Hard | 137 | 163 |
| Grey | Gravel | | Coarse | 163 | 170 |

Annular Space

| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m³/ft³) |
|---------------------|--|------------------------|
| | | |
| 0 | Wyoben | |

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason: _____

| Time (min) | Draw Down | | Recovery | |
|--------------|--------------------|------------|--------------------|------------|
| | Water Level (m/ft) | Time (min) | Water Level (m/ft) | Time (min) |
| Static Level | 30 | | | |
| 1 | | 1 | | |
| 2 | | 2 | | |
| 3 | | 3 | | |
| 4 | | 4 | | |
| 5 | | 5 | | |
| 10 | | 10 | | |
| 15 | | 15 | | |
| 20 | | 20 | | |
| 25 | | 25 | | |
| 30 | | 30 | | |
| 40 | | 40 | | |
| 50 | | 50 | | |
| 60 | | 60 | | |

Pump intake set at (m/ft) 100
 Pumping rate (l/min / GPM) 20
 Duration of pumping 2 hrs + 0 min
 Final water level end of pumping (m/ft) 100
 If flowing give rate (l/min / GPM) _____
 Recommended pump depth (m/ft) 100
 Recommended pump rate (l/min / GPM) 20
 Well production (l/min / GPM) 30
 Disinfected? Yes No

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify Farm - Cooling
 Other, specify _____

Construction Record - Casing

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) | | Status of Well |
|-------------------------|--|------------------------|--------------|-----|--|
| | | | From | To | |
| 6 1/4 | Steel | 219 | 0 | 167 | <input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____ |

Construction Record - Screen

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) | | Status of Well |
|--------------------------|---------------------------------------|----------|--------------|-----|---|
| | | | From | To | |
| 5 1/2 | S. Steel | 25 | 167 | 170 | <input type="checkbox"/> Other, specify _____ |

Water Details

| Water found at Depth (m/ft) | Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Hole Diameter | |
|-----------------------------|---|-------------------|---------------------|
| | | Depth (m/ft) From | To Diameter (cm/in) |
| 170 | | 0 | 20 10 |
| | | 20 | 163 .8 |

Well Contractor and Well Technician Information

Business Name of Well Contractor Roger Roadway Ent. Ltd. Well Contractor's Licence No. 14113
 Business Address (Street Number/Name) Box 397, Sutton West Municipality York
 Province ON Postal Code L1O E 1R0 Business E-mail Address roadwayservices@aol.com
 Bus. Telephone No. (inc. area code) 9057225362 Name of Well Technician (Last Name, First Name) Roadway Grant
 Well Technician's Licence No. 0029 Signature of Technician and/or Contractor [Signature] Date Submitted 20100608

Map of Well Location

Please provide a map below following instructions on the back.

Zephyr Rd.

400' approx.

Con. 4

Comments: _____

Well owner's information package delivered Yes No

Date Package Delivered 20100413

Date Work Completed 20100413

Ministry Use Only

Audit No. z110423

Received JUN 22 2010

Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) CON. 4 Township UXBRIDGE SCOTT PT. 14 Lot 3 Concession 3
 County/District/Municipality DURHAM City/Town/Village _____ Province Ontario Postal Code L9A1R1
 UTM Coordinates Zone 18 Easting 317642023 Northing 4891570 Municipal Plan and Sublot Number PLAN 40R-32369
 NAD 83

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) | |
|----------------|----------------------|-----------------|---------------------|--------------|------|
| | | | | From | To |
| BLACK | TOP SOIL | | MED. | 0 | 3 |
| BROWN | CLAY | SAND | MED. | 3 | 9.1 |
| GREY | CLAY | STONES | SOFT | 9.1 | 20.1 |
| BROWN | SAND | GRAVEL | PACKED | 20.1 | 22.2 |

Annular Space

| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m ³ /ft ³) |
|---------------------|--|--|
| 0 to 6 | BENTONITE SLURRY | .18 |
| 6 to 21 | BENTONITE SLURRY | .15 |

Results of Well Yield Testing

| After test of well yield, water was: | Draw Down | | Recovery | |
|--|--------------|--------------------|------------|--------------------|
| | Time (min) | Water Level (m/ft) | Time (min) | Water Level (m/ft) |
| <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____ | | | | |
| If pumping discontinued, give reason: | Static Level | 7.58 | | |
| Pump intake set at (m/ft) <u>18</u> | 1 | 8.97 | 1 | 8.37 |
| Pumping rate (l/min / GPM) <u>40</u> | 2 | 9.46 | 2 | 7.86 |
| Duration of pumping <u>1 hrs + 30 min</u> | 3 | 9.63 | 3 | 7.68 |
| Final water level end of pumping (m/ft) <u>9.75</u> | 4 | 9.7 | 4 | 7.61 |
| If flowing give rate (l/min / GPM) | 5 | 9.72 | 5 | 7.59 |
| | 10 | 9.72 | 10 | 7.57 |
| | 15 | 9.72 | 15 | 7.58 |
| | 20 | 9.72 | 20 | 7.58 |
| Recommended pump depth (m/ft) <u>18</u> | 25 | 9.73 | 25 | 7.58 |
| Recommended pump rate (l/min / GPM) <u>40</u> | 30 | 9.73 | 30 | 7.58 |
| Well production (l/min / GPM) <u>40</u> | 40 | 9.74 | 40 | 7.58 |
| Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 50 | 9.74 | 50 | 7.58 |
| | 60 | 9.74 | 60 | 7.58 |

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 Other, specify _____

Construction Record - Casing

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) | | Status of Well |
|-------------------------|--|------------------------|--------------|------|--|
| | | | From | To | |
| 15.4 | STEEL | .477 | 6.5 | 20.7 | <input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____ |
| 12.7 | PLASTIC | .544 | 19.5 | 20.7 | |

Construction Record - Screen

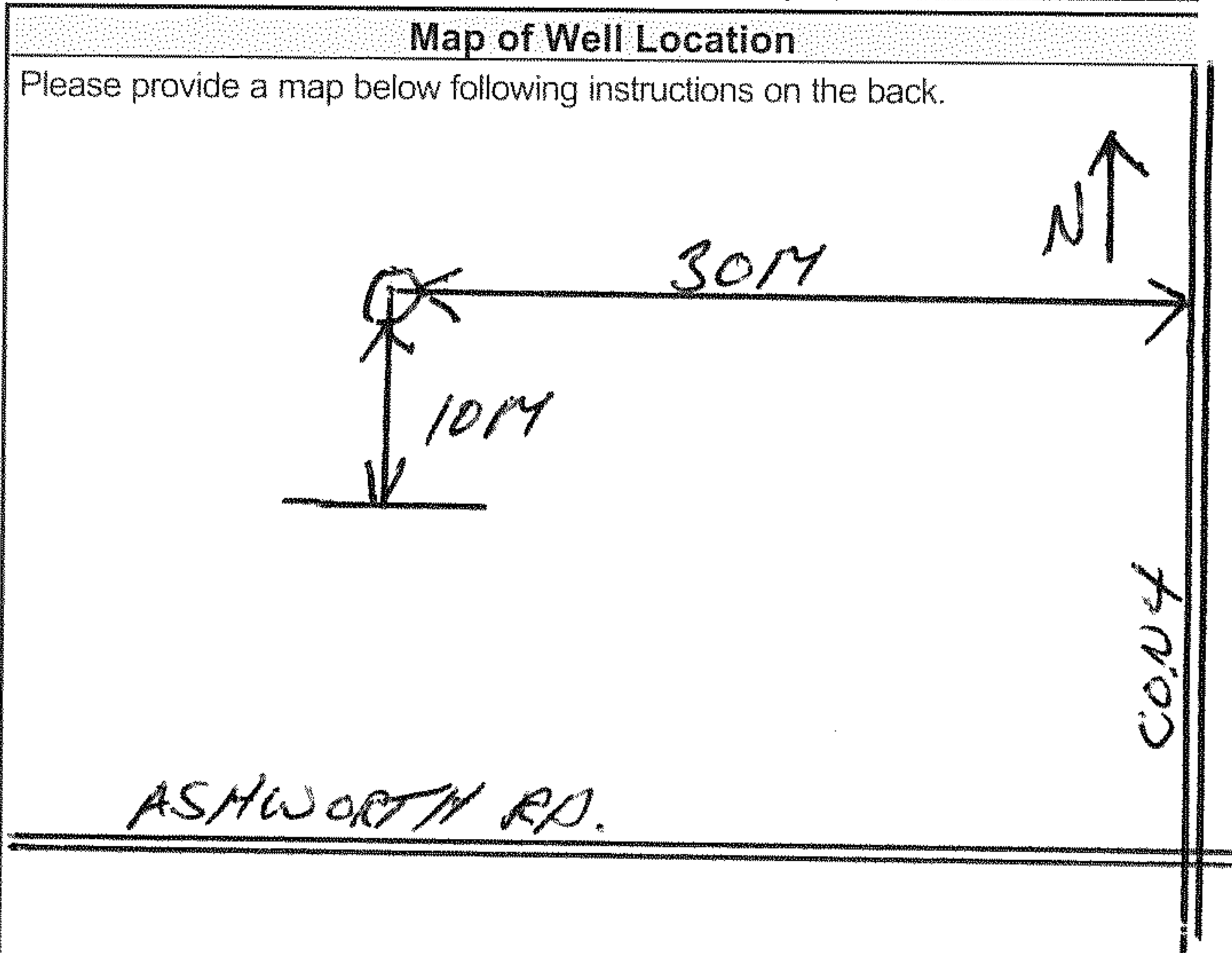
| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) | | Status of Well |
|--------------------------|---------------------------------------|----------|--------------|------|--|
| | | | From | To | |
| 14.75 | STAINLESS | 14 | 20.7 | 22.2 | <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____ |

Water Details

| Water found at Depth (m/ft) | Kind of Water: | Hole Diameter |
|-----------------------------|---|---------------------------------------|
| 20 | <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested | Depth (m/ft) From To Diameter (cm/in) |
| | <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | 0 6 25.4 |
| | <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | 6 20.7 22.86 |
| | <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | 20.7 22.2 15.36 |

Well Contractor and Well Technician Information

Business Name of Well Contractor E.S. WELL DRILLING Well Contractor's Licence No. 7108
 Business Address (Street Number/Name) 32 NORTHLINE RD. FENELON FALLS Municipality KAWARTHA
 Province ONT Postal Code K0M1N0 Business E-mail Address _____
 Bus. Telephone No. (inc. area code) 7054542323 Name of Well Technician (Last Name, First Name) HOUSTON EARL
 Well Technician's Licence No. 1554 Signature of Technician and/or Contractor _____ Date Submitted 20141007



Comments: _____

Well owner's information package delivered Yes No

Date Package Delivered 20140913
 Date Work Completed 20140915

Ministry Use Only
 Audit No. 2185064
 OCT 08 2014
 Received _____

| | | | | |
|--|------------|-----------------------------|---------------------|---|
| Address of Well Location (Street Number/Name) 11369 Con 4 | | Township Uxbridge | Lot Pt 7 | Concession 4 |
| County/District/Municipality Durham | | City/Town/Village Zephyr | Province Ontario | Postal Code L0E1T0 |
| UTM Coordinates NAD 83 | Zone 17 | Easting 420354893116 | Northing 4099170 | Municipal Plan and Sublot Number Part 1 of 3 |

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) | |
|----------------|----------------------|-----------------|---------------------|--------------|----|
| | | | | From | To |
| Brown | Clay | | Soft | 0 | 5 |
| Brown | Sand | Gravel | Loose | 5 | 15 |
| Brown | Gravel | | Coarse - Loose | 15 | 38 |

| Annular Space | | | Results of Well Yield Testing | | | |
|---------------------|--|------------------------|-------------------------------|--------------------|------------|--------------------|
| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m³/ft³) | Draw Down | | Recovery | |
| From | To | | Time (min) | Water Level (m/ft) | Time (min) | Water Level (m/ft) |
| 0 | 20 | Benseal | | | | |
| | | | Static Level | 10 | | |
| | | | 1 | ↑ | 1 | |
| | | | 2 | | 2 | |
| | | | 3 | | 3 | |
| | | | 4 | | 4 | |
| | | | 5 | | 5 | |
| | | | 10 | | 10 | |
| | | | 15 | | 15 | |
| | | | 20 | | 20 | |
| | | | 25 | | 25 | |
| | | | 30 | | 30 | |
| | | | 40 | | 40 | |
| | | | 50 | | 50 | |
| | | | 60 | | 60 | |

| Method of Construction | | Well Use | | |
|---|----------------------------------|---|---|-------------------------------------|
| <input type="checkbox"/> Cable Tool | <input type="checkbox"/> Diamond | <input type="checkbox"/> Public | <input type="checkbox"/> Commercial | <input type="checkbox"/> Not used |
| <input checked="" type="checkbox"/> Rotary (Conventional) | <input type="checkbox"/> Jetting | <input checked="" type="checkbox"/> Domestic | <input type="checkbox"/> Municipal | <input type="checkbox"/> Dewatering |
| <input type="checkbox"/> Rotary (Reverse) | <input type="checkbox"/> Driving | <input type="checkbox"/> Livestock | <input type="checkbox"/> Test Hole | <input type="checkbox"/> Monitoring |
| <input type="checkbox"/> Boring | <input type="checkbox"/> Digging | <input type="checkbox"/> Irrigation | <input type="checkbox"/> Cooling & Air Conditioning | |
| <input type="checkbox"/> Air percussion | | <input type="checkbox"/> Industrial | | |
| <input type="checkbox"/> Other, specify _____ | | <input type="checkbox"/> Other, specify _____ | | |

| Construction Record - Casing | | | | Status of Well | |
|------------------------------|--|------------------------|--------------|----------------|--|
| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) | | <input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____ |
| | | | From | To | |
| 6 1/4 | Steel | 188 | +2 | 38 | |

| Construction Record - Screen | | | | Status of Well | |
|------------------------------|---------------------------------------|----------|--------------|----------------|---|
| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) | | |
| | | | From | To | <input type="checkbox"/> Other, specify _____ |
| | Gravel Inlet | | | | |

| Water Details | | Hole Diameter | |
|-----------------------------|--|---------------|------------------|
| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Depth (m/ft) | Diameter (cm/in) |
| From | To | From | To |
| 38 | | 0 | 10 |
| | | +2 | 6 5/8 |

| Well Contractor and Well Technician Information | | | |
|---|--|---|----------------------------|
| Business Name of Well Contractor Roger Broadway Ent., Ltd. | | Well Contractor's Licence No. 114113 | |
| Business Address (Street Number/Name) P.O. Box 397, Sutton W | | Municipality York | |
| Province ON | Postal Code L0E1R0 | Business E-mail Address broadwaywells@bellnet.ca | |
| Bus. Telephone No. (inc. area code) 9057225362 | Name of Well Technician (Last Name, First Name) Broadway, Grant | | |
| Well Technician's Licence No. 00029 | Signature of Technician and/or Contractor [Signature] | | Date Submitted 20160923 |

| Map of Well Location | | | |
|--|--|--|--|
| Please provide a map below following instructions on the back. | | | |
| Leaskdale Rd. | | | |
| | | | |
| Sandford Rd. | | | |

| Comments: | | Ministry Use Only | |
|--|------------------------|---------------------|---------|
| | | Audit No. | 2243519 |
| Well owner's information package delivered | Date Package Delivered | Date Work Completed | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | 20160824 | 20160824 | |
| | | Received 05 2016 | |



Measurements recorded in: Metric Imperial

Page _____ of _____

Address of Well Location (Street Number/Name) 11369 Con 4 Township Uxbridge Lot Pt 7 Concession 4
 County/District/Municipality Durham City/Town/Village Zephyr Province Ontario Postal Code L9E1T0
 UTM Coordinates Zone 18 Easting 317642056 Northing 4893126 Municipal Plan and Sublot Number 40R9170 Part 1 of 3
 NAD 83

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) From To |
|----------------|----------------------|-----------------|----------------------|-------------------------|
| | | | Hole Plug | 25 23 |
| | | | 3/4 Clear Limestone | 23 15 |
| | | | Benseal | 15 14 |
| | | | 3/4 Clear Limestone | 14 1 |
| | | | Benseal, Soil on top | 1 0 |

Annular Space

| Depth Set at (m/ft) From To | Type of Sealant Used (Material and Type) | Volume Placed (m³/ft³) |
|--------------------------------|---|---------------------------|
| | | |
| | | |

Results of Well Yield Testing

| After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____ | Draw Down | | Recovery | |
|--|--------------|--------------------|------------|--------------------|
| | Time (min) | Water Level (m/ft) | Time (min) | Water Level (m/ft) |
| If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Static Level | 15 | | |
| | 1 | | 1 | |
| | 2 | | 2 | |
| | 3 | | 3 | |
| | 4 | | 4 | |
| | 5 | | 5 | |
| 10 | | 10 | | |
| 15 | | 15 | | |
| 20 | | 20 | | |
| 25 | | 25 | | |
| 30 | | 30 | | |
| 40 | | 40 | | |
| 50 | | 50 | | |
| 60 | | 60 | | |

Method of Construction

Cable Tool Diamond
 Rotary (Conventional) Jetting
 Rotary (Reverse) Driving
 Boring Digging
 Air percussion
 Other, specify _____

Well Use

Public Commercial Not used
 Domestic Municipal Dewatering
 Livestock Test Hole Monitoring
 Irrigation Cooling & Air Conditioning
 Industrial Other, specify _____

Construction Record - Casing

| Inside Diameter (cm/in) | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft) | | Status of Well |
|-------------------------|--|------------------------|--------------|----|--|
| | | | From | To | |
| 36 | Concrete | | 0 | 25 | <input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <u>New well</u> <input type="checkbox"/> Other, specify _____ |

Construction Record - Screen

| Outside Diameter (cm/in) | Material (Plastic, Galvanized, Steel) | Slot No. | Depth (m/ft) | | Status of Well |
|--------------------------|---------------------------------------|----------|--------------|----|---|
| | | | From | To | |
| | | | | | <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____ |

Water Details

| Water found at Depth (m/ft) | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ |
|-----------------------------|--|
| | |
| | |
| | |

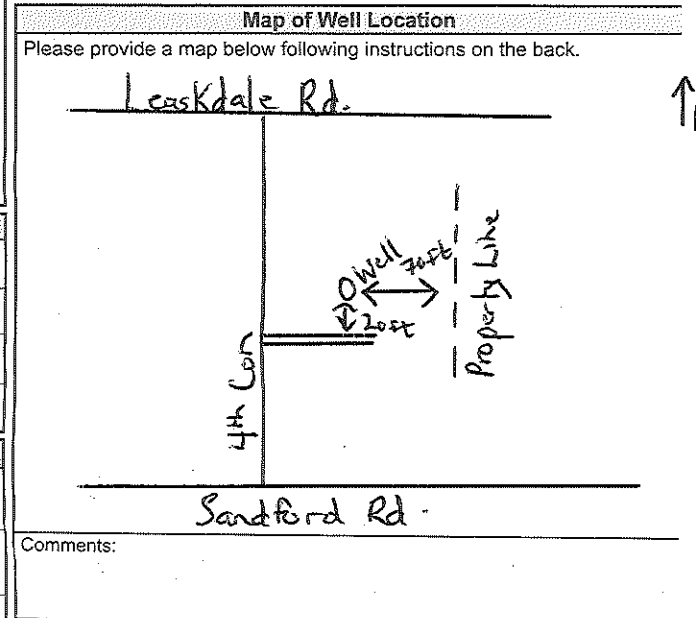
Hole Diameter

| Depth (m/ft) | Diameter (cm/in) |
|--------------|------------------|
| From To | |
| | |

Well Contractor and Well Technician Information

Business Name of Well Contractor Roger Beadway Ent, Ltd. Well Contractor's Licence No. 114113
 Business Address (Street Number/Name) P.O. Box 397 Suttons Municipality York
 Province ON Postal Code L9E1R0 Business E-mail Address beadwaywells@bellnet.ca

Bus. Telephone No. (inc. area code) 9057225362 Name of Well Technician (Last Name, First Name) Beadway Grant
 Well Technician's Licence No. 0029 Signature of Technician and/or Contractor Grant Beadway Date Submitted 20170822



Well owner's information package delivered Yes No

Date Package Delivered 20170720

Date Work Completed 20170720

Ministry Use Only

Audit No. 2264097

AUG 30 2017

Received

Follow the **COVID-19 restrictions and public health measures** (<https://covid-19.ontario.ca/public-health-measures>) and **book your appointment to get vaccinated** (<https://covid-19.ontario.ca/book-vaccine/>).

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the [Open Data catalogue](https://data.ontario.ca/dataset/well-records) (<https://data.ontario.ca/dataset/well-records>)

.

[Go Back to Map \(.\)](#)

Well ID

Well ID Number: 7355811

Well Audit Number: Z327039

Well Tag Number: A282822

This table contains information from the original well record and any subsequent updates.

Well Location

| | |
|-------------------------------------|------------------------------|
| Address of Well Location | McCowan and Lawrence |
| Township | UXBRIDGE TOWNSHIP (SCOTT) |
| Lot | |
| Concession | |
| County/District/Municipality | DURHAM |
| City/Town/Village | Toronto |
| Province | ON |
| Postal Code | n/a |

UTM Coordinates

NAD83 — Zone 17

Easting: 641290.00

Northing:

4891225.00

**Municipal Plan and Sublot
Number****Other**

Overburden and Bedrock Materials Interval

| General Colour | Most Common Material | Other Materials | General Description | Depth From |
|---------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------|
|---------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------|

| | | | | |
|------|------|------|--|------|
| BRWN | FILL | SAND | | 0 ft |
|------|------|------|--|------|

| | | | | |
|------|------|------|--|-------|
| BRWN | SAND | SILT | | 15 ft |
|------|------|------|--|-------|

Annular Space/Abandonment Sealing Record

| Depth From | Depth To | Type of Sealant Used (Material and Type) | Volume ced |
|-----------------------|---------------------|---|-----------------------|
|-----------------------|---------------------|---|-----------------------|

| | | | |
|------|------|------------|--|
| 0 ft | 1 ft | FLUSHMOUNT | |
|------|------|------------|--|

1 ft 37 ft BENTONITE

37 ft 50 ft SAND

Method of Construction & Well Use

Method of Construction **Well Use**

Rotary (Convent.)

Test Hole

Status of Well

Construction Record - Casing

| Inside Diameter | Open Hole or material | Depth From | Depth To |
|-----------------|-----------------------|------------|----------|
| 1.875 Inch | PLASTIC | 0 ft | 40 ft |

Construction Record - Screen

| Outside Diameter | Material | Depth From | Depth To |
|------------------|----------|------------|----------|
| 2 inch | PLASTIC | 40 ft | 50 ft |

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7644

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level

If flowing give rate

Recommended pump depth

Recommended pump rate

Well Production

Disinfected?

Draw Down & Recovery

| Draw Down Time(min) | Draw Down Water level | Recovery Time(min) | Recovery Water level |
|---------------------|-----------------------|--------------------|----------------------|
|---------------------|-----------------------|--------------------|----------------------|

SWL

1 1

2 2

3 3

4 4

5 5

10 10

15 15

20 20

25

25

30

30

40

40

45

45

50

50

60

60

Water Details

Water Found at Depth Kind

Hole Diameter

**Depth Depth Diameter
From To**

0 ft 10 ft 8 Inch

10 ft 50 ft 4 Inch

Audit Number: Z327039

Date Well Completed: March 13, 2020

Date Well Record Received by MOE: March 24, 2020

Updated: October 18, 2021

Published: March 20, 2014

Related

[How to use a Ministry of the Environment map \(/page/how-use-ministry-environment-map#wells\)](/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record
(<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

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