

## Hydrogeological Study Report

# Proposed Residential Development 79 Sideroad 19

Township of Centre Wellington, Ontario

### Submitted to:

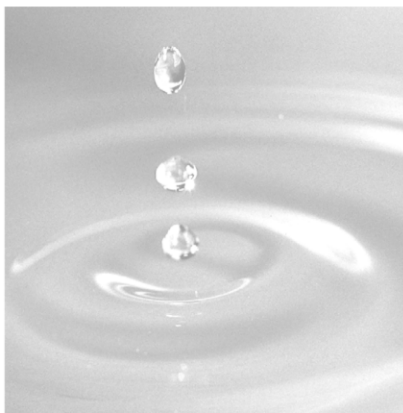
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# Table of Contents

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<b>Certification</b>	<b>iv</b>
<b>Record of Revisions</b>	<b>v</b>
<b>Acronyms and Abbreviations</b>	<b>vi</b>
<b>1. Introduction</b>	<b>1</b>
1.1. Purpose and Scope	1
<b>2. Background</b>	<b>3</b>
2.1. Site Location and Setting	3
2.2. Proposed Development	3
2.3. Local Relief and Drainage	4
2.4. Geology and Physiography	4
2.5. Local Use of Groundwater	5
2.5.1. Source Protection	5
2.5.2. Private Well Users	6
2.5.3. Geotechnical Investigation – JLP Services Inc.	6
2.6. Identified Receptors	7
<b>3. Field Investigation</b>	<b>9</b>
3.1. Methodology	9
3.2. Site Reconnaissance	10
3.3. Groundwater Levels	10
3.3.1. Groundwater Gradients	11
3.4. Hydraulic Conductivity Testing	11
3.5. Groundwater Quality	12
3.6. Surface Water Quality	12
<b>4. Hydrogeological Conceptual Model</b>	<b>14</b>
<b>5. Construction Dewatering Assessment</b>	<b>16</b>
5.1. Dewatering Rates	16
5.2. Approvals Requirements	17
5.3. Zone of Influence	17
5.4. Water-Taking Methodology	18
5.5. Monitoring and Mitigation	18
5.5.1. Water-Taking	18
5.5.2. Discharge Management	20

<b>6.</b>	<b>Impact Assessment</b>	<b>21</b>
6.1.	Source Protection and Municipal Water Supplies	21
6.1.1.	Quantity	21
6.1.2.	Quality	22
6.2.	Private Water Wells	24
6.2.1.	Quantity	24
6.2.2.	Quality	24
6.3.	Ecological Receptors – Wetland Areas	25
6.3.1.	Quantity	25
6.3.2.	Quality	26
6.4.	Construction and Development	26
6.4.1.	Quantity	26
6.4.2.	Quality	27
<b>7.</b>	<b>Monitoring and Mitigation</b>	<b>28</b>
7.1.	Monitoring Activities – General	28
7.1.1.	On-Site Groundwater Level Monitoring	28
7.1.2.	Groundwater Quality Monitoring	28
7.1.3.	Surface Water Quality Monitoring	28
7.2.	Mitigation Activities – General	28
7.2.1.	Stormwater Management	28
7.2.2.	Long Term Drainage or Water Taking	28
7.3.	Monitoring and Mitigation Activities – Construction Dewatering	29
<b>8.</b>	<b>Summary of Findings</b>	<b>30</b>
<b>9.</b>	<b>Conclusions and Recommendations</b>	<b>32</b>
<b>10.</b>	<b>Statement of Limitations</b>	<b>34</b>
<b>11.</b>	<b>References</b>	<b>35</b>

## **Tables**

Table 1. Water Well Record Summary

Table 2. Monitoring Well Details and Summary of Water Level Measurements

Table 3. Summary of Groundwater Quality Analyses – Metals Parameters

Table 4. Summary of Groundwater Quality Analyses – General Chemistry Parameters

Table 5. Summary of Surface Water Quality Analyses – Metals Parameters

Table 6. Summary of Surface Water Quality Analyses – General Chemistry Parameters

## **Figures**

Figure 1. Site Location

Figure 2. Site and Study Area Layout

Figure 3. Physiographic Landforms

Figure 4. Surficial Geology

Figure 5. MECP Water Well Records

Figure 6. Site Investigation Layout

Figure 7. Groundwater Contours (April 2023)

Figure 8. Estimated Zone of Influence for Construction Dewatering

Figure 9. Well Monitoring Buffer Area

## **Appendices**

Appendix A	Zoning Maps from Township of Centre Wellington
Appendix B	Proposed Site Plan
Appendix C	Select MECP Water Well Records
Appendix D	Source Protection Vulnerable Area Mapping
Appendix E	Borehole Logs and Grain-Size Analyses
Appendix F	Groundwater Hydrographs
Appendix G	Certificates of Analysis for Groundwater and Surface Water Quality Testing
Appendix H	Single Well Response Test Results
Appendix I	Construction Dewatering Estimates

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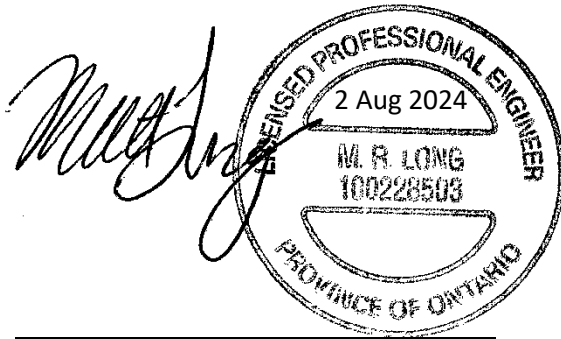
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# Certification

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## Record of Revisions

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Identification	Date	Description of Issued and/or Revision
R01	July 3, 2024	Draft for Internal Review
R02	August 2, 2024	Issued for Site Plan Approval

## Acronyms and Abbreviations

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LID	Low Impact Development
masl	metres above sea level (geodetic datum)
mbgs	metres below ground surface
mbTOC	Metres below Top of Casing
mg/L	milligrams per litre
RMP	Risk Management Plan
SWM	Stormwater Management
<i>Technical Rules</i>	Refers to the <i>2021 Technical Rules Under the Clean Water Act</i> , published by the Ontario Ministry of the Environment, Conservation and Parks.
WWR	MECP water well record identification number
µg/L	micrograms per litre

# 1. Introduction

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GEI Consultants Canada Ltd. (GEI) have been retained by Wriighthaven Homes Limited (the Client) to conduct a hydrogeological study regarding a proposed residential development involving properties 73 and 79 Sideroad 19 in the west portion of the Town of Fergus in the Township of Centre Wellington, Ontario (shown on Figure 1, hereafter referred to as the “Site”).

This report presents the findings of the hydrogeological study, which has gathered data from a review of background information and field investigations and provides an assessment of the expected requirements for construction dewatering.

## 1.1. Purpose and Scope

The purpose of this report is to gather information about the Site from existing sources as well as from Site-specific field investigation activities to characterize the hydrogeological conditions of the Site.

The study includes a desktop review of the Site and areas within 500 m of the Site (i.e., the “Study Area”, see Figure 2). Subsurface investigation and monitoring activities were also conducted on-site.

A brief overview of the scope of work is as follows:

1. Desktop study of materials from publicly available sources, including Ontario Geological Survey Maps, Ontario Water Wells database, Grand River Conservation Authority GIS, and the Ontario Source Protection Atlas.
2. Field investigation including
  - a. coordination of subsurface investigation including borehole drilling and monitoring well installation
  - b. measurement of groundwater levels in on-site monitoring wells, including via the deployment of datalogger pressure transducers
  - c. collection of groundwater samples and submission for analysis to an accredited environmental laboratory
  - d. completion of single well response testing in select monitoring wells on-site
3. Preparation of a hydrogeological study report (i.e., this document), including
  - a. presentation of the results of the desktop study
  - b. description of the methodology of the field investigation
  - c. presentation of the results of the field investigation
  - d. development of a hydrogeological conceptual model of the Site



- e. preparation of an impact assessment with respect to the proposed development in its hydrogeological context
- f. preparation of a preliminary construction dewatering assessment to estimate expected water-taking and identify appropriate approvals approaches.
- g. Provide recommendations with respect to monitoring, mitigation, or design (e.g., of stormwater management or other features of the development), as applicable.

A more detailed description of the field investigation activities is provided in Section 3.

## **2. Background**

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In this report, the term “north” shall refer to the direction along Highway 6 toward Sideroad 18. All other directions (e.g., east, south, west) are to be understood with respect to this definition of “north”.

### **2.1. Site Location and Setting**

For the purposes of this study the Site is considered to be the properties located at 73 and 79 Sideroad 19 in the Township of Centre Wellington (Fergus) (Figure 1). The subject property is roughly rectangular in shape with approximate dimensions 190 m long and 60 m wide.

The Site is described as Part of Lot 19, Concession 15, Geographic Township of Nichol.

The Site is bordered by existing residential properties to the east and west of the Site, a wetland lies immediately southwest of, and slightly encroaches, the Site and Sideroad 19 road allowance lies to the north. Further to the north and south are residential properties. Generally, the land use in the area is residential.

Zoning maps from the Township of Centre Wellington (see Appendix A for copy) indicate that the Site is under residential use (R1A). An area identified for “environmental protection” overlaps with the southern part of the Site. The majority of properties surrounding the Site are zoned for residential (e.g., R1A, R1B, R1C). Lands zoned for commercial use (e.g., C2) lie approximately 330 m to the east of the Site, along the Highway 6 corridor.

Two existing dwellings are located in the northern part of the Site. In the southwesterly part of the Site there is a wooded area. The remainder of the Site is landscaped, and grass covered.

Within 10 m of the southerly property boundary lies a wetland area identified by GRCA(2024a) to be a “connected” wetland, indicating that it lies on a watercourse or stream feature.

Figure 1 shows the location of the Site on a regional scale and Figure 2 shows an aerial view of the Site and Study Area.

### **2.2. Proposed Development**

The “Project” is intended to develop the Site as a residential subdivision.

The proposed site development will contain the following elements:

- Twelve (12) bungalow and eight (8) two-storey dwelling units with associated yards and driveways fronting onto the proposed site access road.
- One (1) single detached dwelling, yard and driveway fronting onto Sideroad 19.
- An amenity area.

- An urbanized (curb and gutter) site access road, including turnaround and parking areas. Road width is 6 m, measured from edge of pavement.
- Servicing and stormwater management infrastructure, including a stormwater management facility.

The existing residence at civic address 73 Sideroad 19 will remain in place, though some grade alterations will be made to the rear lot area.

The proposed development will be serviced with municipal water and sanitary sewers.

It is understood that though the dwelling units will be freehold properties, the roadways would remain as a common element to the development and would not be assumed by the municipality.

The plan enclosed in Appendix B shows the proposed layout of the development.

### **2.3. Local Relief and Drainage**

Topographically, the relief of the Site is generally flat throughout, gently sloping down to lower-lying wooded/ wetland areas in the southwesterly part of the Site (GRCA 2023). The ground elevation of the Site generally ranges from approximately 418.5 masl (northern part of Site) to approximately 415 masl (southwestern portion of the property, where the adjacent wetland encroaches the Site).

In the southern portion of the Site, a culvert and ditch receive runoff from lands to the east (i.e., Victoria Crescent) and conduct it across the Site toward the southerly property boundary.

On a sub-regional scale, drainage from the Site is southerly toward the Grand River, which lies south/southeast of the Site at a distance of approximately 1,500 m.

Locally, surface drainage is generally southerly toward the wetland area south of the Site. According to mapping from the GRCA (2024b), this wetland area drains in a westerly direction via culverts and streams towards a larger wetland area approximately 180 m east-southeast of the Site.

### **2.4. Geology and Physiography**

The Site is located within the physiographic region known as the Guelph Drumlin Field (Chapman and Putnam, 1984). In the Guelph Drumlin Field, the local soils generally consist of stony tills and deep gravel terraces, the latter being typical of glacial meltwater spillways and the former being typical of drumlins and till plains (Chapman and Putnam, 1984).

In terms of physiographic landforms, mapping from the Ontario Geological Survey (Chapman and Putnam, 2007) indicates that the Site lies mostly within a Spillways landform and a small northerly portion of the Site is within drumlinized Till Plains. Figure 3 shows the physiographic landforms present at and in the vicinity of the Site.

According to mapping from the Ontario Geological Survey (2010), the surficial geology of the Site is dominated by lacustrine, kame, and outwash sand deposits, with Wentworth Till (sandy silt to silty sand deposits) reported further north, south, and east of the Site (Figure 4).

The bedrock in the Study Area is the Guelph Formation dolostone, a tan to brown, fine-to medium-crystalline, fossiliferous, locally biohermal, sucrosic dolostone. Beneath the Guelph Formation is a discontinuous aquitard known as the Eramosa Formation, which contains argillaceous and bituminous material, which in turn is underlain by the Goat Island Formation, an aquifer of lower transmissivity which is noted for distinctive geochemistry with elevated sulphate and halite (Brunton 2009). The Goat Island Formation is underlain by the Gasport Formation (Brunton 2009).

Water well records attributed to locations near the Site provide observations of the stratigraphy in the Site vicinity (Appendix C, MECP 2022). A review of select records in the vicinity of the Site indicate variable soil conditions, with descriptions ranging from “clay” to “sand / stones”. This variability is noted to consistent with the surficial geological mapping description encompassing kame, lacustrine and outwash sediments.

Water well records in the study area indicate that the subcrop (i.e., the upper surface) of the bedrock generally lies at an average depth of 30.2 m (or between 17.1 m to 76.8 m below ground surface, depending on location).

Reviewing the water well records (MECP, 2022a) in the close vicinity of the Site (within 125 m), the thickness of the overburden unit is reported as between approximately 22.3 m to 25.9 m.

## **2.5. Local Use of Groundwater**

### **2.5.1. Source Protection**

A review of source protection mapping available through Lake Erie Region Source Protection Committee (2022) indicates that the Site overlaps the following vulnerable area designations:

- Wellhead Protection Area (WHPA) “B”
  - Northerly portion of property - vulnerability 10
  - Southerly portion of property - vulnerability 8
- Significant Groundwater Recharge Area (SGRA), Intrinsic vulnerability level - High
- Wellhead Water Quantity Zone (WHPAQ), risk level “Significant”

Maps showing the locations of these vulnerable areas in the vicinity of the Site are provided in Appendix D.

The nearest municipal wellhead to the Site is located approximately 580 m to the southwest (Centre Wellington Well F7).

These designations under the Sourcewater Protection framework will guide the impact assessment of the dewatering activities insofar as potential impacts to municipal water sources are concerned.

### **2.5.2. Private Well Users**

Though the Township of Centre Wellington by-laws prohibit the drilling of new water supply wells for private use within the settlement area of Fergus, it is known that some properties continue to obtain their water supply from private wells installed prior to the prohibition.

A search of the MECP water well records database (MECP 2022a) returned 165 water well records attributed to locations on Site and within the 500m Study Area.

Table 1 provides a summary of the information provided in the water well records. Figure 5a illustrates the locations of the water well records within the 500 m Study Area and well records are enclosed in Appendix C.

A brief summary of information collected from the water well records is as follows:

- Among well records belonging to overburden wells (106 well records):
  - By usage:
    - Abandoned: 13 records
    - Domestic: 23 records
    - Monitoring: 69 records
    - Unknown: 1 record
  - Average Static Water Level: 2.6 mbgs
- Among well records belonging to bedrock wells (46 well records):
  - By usage:
    - Abandoned: 6 records
    - Domestic: 39 records
    - Livestock: 1 record
  - Average Static Water Level: 19.9 mbgs
- Among well records identified as “Unknown” for bedrock or overburden classification:
  - By usage:
    - Abandoned: 12 records
    - Unknown: 1 record

Three well records are attributed to the Site itself; two of which correspond to overburden monitoring wells, and one to an overburden domestic supply well. One of the two monitoring wells (Well ID 7125424), installed to a depth of 7.6 mbgs, appears to have been plotted incorrectly in the database because no such well appears to exist on-site. Additionally, there is a comment on the well record that indicates the location of this well as “In front of #48”, which further suggests that this monitoring well is Relevant Local and Site-Specific Reports

### **2.5.3. Geotechnical Investigation – JLP Services Inc.**

A geotechnical investigation in respect of the proposed development was completed by JLP Services Inc. (JLP) as documented in a report “Geotechnical Investigation Proposed Residential Development 79-87

Side Road 19 Township of Centre Wellington (Fergus), Ontario“ (dated April 18, 2023). The report documents the findings of a field investigation that consisted of drilling of five boreholes, Boreholes 1 through 5 to depths from 3.66 to 8.23 mbgs on January 30 and 31, 2023. Monitoring wells were installed in all five boreholes (MW1 through MW5). Borehole IDs (Borehole #) and monitoring well IDs (MW#) are used interchangeable but refer to the same location (i.e. Borehole 1 is MW1) for consistency with the geotechnical investigation report.

Generally, based on conditions reported during borehole drilling, the stratigraphy of the subsurface materials was found to be as follows:

- **Fill** (sand and gravel with some silt), approximately 125 mm thick, at the surface of Borehole 2 and 4, and,
- **Topsoil** (black sandy silt, some organics) between 100 mm to 650 mm thick, below fill at Borehole 2 and 4, and at surface of remaining boreholes (thinnest at Borehole 5, thickest at Borehole 2), overlying,
- **Silt** with some sand, below the topsoil at all boreholes, to depths of approximately 1.0 to 2.3 m below grade, with,
  - Occasional coarse sand inclusions (Boreholes 1, 2 and 3)
  - Scattered organic seams and wood or plant fibres in upper portion (Boreholes 4 and 5), overlying,
- **Sand** with trace silt, to depths of approximately 3.5 and 7.6 m below grade in Boreholes 1, 3, 4, and 3 and to the termination depth of Borehole 2 at about 5.2 m below grade.
  - Scattered silty seams in Borehole 1 at about 5.0 m below grade.
- **Sandy Silt Till** with trace clay and occasional gravel inclusions, below sand in Boreholes 1, 3, 4, and 5 and extending to the termination depth of the boreholes at about 3.7 to 8.2 m below grade.

During drilling, saturated conditions were encountered within the silt layer at the boreholes for MW3, MW4 and MW5 and in the sand layer at all boreholes (i.e., for monitoring wells MW1 through MW5). Based on groundwater level measurements recorded in the monitoring wells MW1 to MW5 on April 5, 2023 groundwater levels were in the range of 415.56 masl to 417.07 masl.

Copies of the borehole logs and grain-size analyses of select soil samples are provided in Appendix E. The locations of the boreholes and monitoring wells are shown on Figure 6.

In the discussion and recommendations, JLP indicates that, due to the occurrence of saturated sand materials within the expected zone of excavation dewatering may be required and may be carried out “by means of pumping from sump within the excavation or by pumping from well-points”.

## 2.6. Identified Receptors

Receptors are those entities which may be affected by the proposed development or its construction. They may include anthropogenic features, water users, or ecological features.

Receptors that may experience hydrogeological influence due to the proposed development or its construction include the following:

- Municipal water resources (per the Source Protection Plan),
- Private water wells on nearby sites,
- Construction activities and aspects of the development (e.g., dewatering requirements, basements),
- Natural/ environmental protection areas (e.g. wetland/woodland areas) to the south/southeast of the Site.

## 3. Field Investigation

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### 3.1. Methodology

The hydrogeological field investigation involved the following activities:

- Water level monitoring (manually and by electronic datalogging pressure transducers);
- Hydraulic conductivity testing (single-well response testing);
- Groundwater and surface water quality sampling and analyses; and,
- Site reconnaissance.

Water levels were monitored by GEI at each of the five (5) existing on-site monitoring wells (MW1, MW2, MW3, MW4, and MW5). Water level data was collected by manual measurement using an electric water level tape and through the use of electronic datalogging pressure transducers. The pressure transducers were installed in select monitoring wells in March 2023 (MW3, MW4, and MW5). The logger in MW4 was subsequently moved to MW1 in June 2023 due to the need for more detailed groundwater level data near the frontage of the site to support construction dewatering at the anticipated tie-in to municipal services on Sideroad 19. Water level data and monitoring well details are presented in Table 2. Hydrographs of monitoring data are provided in Appendix F.

Samples of groundwater were collected from monitoring wells MW3, MW4 and MW5 on March 14, 2023; from MW1 on April 3, 2023; and from MW2 on June 7, 2023. Prior to sampling, each monitoring well was purged, using dedicated inertial pump tubes, of at least three (3) well volumes of water. Using the same dedicated pump tube, water quality samples were then collected into laboratory supplied bottles specific to the requested analysis. Samples for metals analysis were field filtered using 0.45 µm Waterra® inline disposable filter and preserved using laboratory prepared preservative.

A sample of surface water (SW-001) from the on-site drainage feature (i.e., ditch) was collected on March 14, 2023. Laboratory results are summarized in Tables 3 and 4 (groundwater) and Tables 5 and 6 (surface water). The laboratory-issued certificates of analyses are provided in Appendix G.

Environmental water samples were kept cool (between 0 and 10°C) and submitted to a CALA/SCC-accredited laboratory (Bureau Veritas Laboratories) under standard chain-of-custody protocols for analyses.

Single-well response tests (or “slug tests”) were conducted at MW3, MW4, and MW5 on March 14, 2023, and at MW1 on April 3, 2023. These tests were conducted in the rising-head mode. Preparation for the test began by taking a manual measurement of the static groundwater level and installing a datalogging pressure transducer to an appropriate depth in the well. A “slug” (disposable groundwater bailer) was inserted into the well and allowed to fill with approximately 1L of groundwater. After allowing the water level to return to equilibrium, the slug was removed from the well to cause a quasi-instantaneous decrease in the water level. The subsequent increase in water levels (“rising-head”) were measured with time as the water level in the well returned to equilibrium. The data collected from this



test was then analyzed using the Bouwer-Rice (1976) method to determine the hydraulic conductivity of the soil intersected by the well screen. Results of slug test data analysis are presented in Appendix H.

Site reconnaissance was made by GEI to visually observe the Site and confirm desktop study information. This occurred concurrently with other field activities, mainly in March and April 2023.

### **3.2. Site Reconnaissance**

While attending the Site to undertake other fieldwork activities, GEI made reconnaissance observations to verify, where possible, findings from the desktop review.

The Site topography was confirmed to have a relatively flat to gently sloping upland area in the northern part of the Site and a moderate to steep slope in the south portion of the Site.

Surface drainage on-site is generally overland toward the rear of the property and eventually to wetland areas lying south and east of the Site. There is an existing municipal storm sewer on easement that discharges to the easterly part of the Site: that discharge also flows overland toward the rear of the property and subsequently to the wetland areas.

There were no apparent seepage features identified during the site reconnaissance. However, based on groundwater levels it appears that the water level in the drain may be closely related to groundwater levels: during periods of high groundwater, it appears that the groundwater surface intersects ground surface at the drain.

The existing residences on the Site are privately serviced for sewage: the leaching beds are located south of the dwellings that they serve. Both of the existing residences are also privately serviced for water by water well: the water supply well for residence #73 is located in the front yard (i.e., to the north of the dwelling) while the well for #79 is located along the west property line south of the house.

### **3.3. Groundwater Levels**

Hydrographs of the groundwater level data collected from the monitoring wells equipped with loggers in March and April 2023 are plotted in Charts 1 through 5, respectively. A record of manual groundwater level measurements, along with other elevations and monitoring well details, is provided in Table 2.

Groundwater levels have been observed to fluctuate seasonally, with maximum recorded groundwater levels occurring in early 2023 and minimum recorded groundwater levels occurring in fall 2023.

Maximum groundwater levels ranged from about 417.1 masl (MW1 in April 2023) to about 415.9 masl (MW5 in April 2023).

The range of fluctuation (i.e., difference between maximum and minimum recorded groundwater levels) is about 1 m at all monitoring wells, with the exception of MW3 where it was slightly larger (about 1.5 m). The recorded data also indicates numerous brief periods of rise and fall in the groundwater level, indicative of influence of precipitation events on shallow groundwater levels.

Groundwater levels in early 2024 appear not to have risen as high as they did in 2023. This is understood to be due to the relatively dry, warm winter of 2023/2024.

### **3.3.1. Groundwater Gradients**

Groundwater contours based on groundwater level readings from April 5, 2023 have been plotted in Figure 7. These contours have been determined through a numerical interpolation of the water level readings recorded at each of the monitoring wells. The contours do not account for other factors, such as ground topography, variation in soil types, or other conditions which may cause perturbations in the groundwater contours.

The orientation of the contours indicates that the lateral direction of groundwater flow is generally southerly to south-easterly, indicating flow generally away from Sideroad 19 towards the creek traversing the property in the southerly portion of the property.

The spacing of the contours indicates a lateral gradient of approximately 1%. From the layout of the contours, the lateral component of groundwater flow is interpreted to be in a south-southwesterly direction, generally toward the wetland area located southwest of the Site.

## **3.4. Hydraulic Conductivity Testing**

The hydraulic conductivity of the soil intersected by the well screen was tested at monitoring wells MW1, MW3, MW4 and MW5 using the single-well response testing method. The testing was conducted at the monitoring wells in the rising-head mode.

Calculation spreadsheets showing the test data and the calculated hydraulic conductivity values are provided in Appendix H. Overall, the data collected from the tests were very conducive to analysis, with consistent trends in water level change with time.

Because each of the wells was installed into the “Sand” layer, the results of this testing provide estimates of the hydraulic conductivity of the “Sand” with trace to some silt layer. Below is a summary of the hydraulic conductivity test results obtained by analysis of the slug test data using the Bouwer-Rice (1976) method:

- MW1                       $3 \times 10^{-6}$  m/s
- MW3                       $7 \times 10^{-6}$  m/s
- MW4                       $7 \times 10^{-5}$  m/s
- MW5                       $1 \times 10^{-5}$  m/s

The geometric mean of the four test results is  $1 \times 10^{-5}$  m/s.

The analyses indicate that the hydraulic conductivity of the soils on-site is moderate to moderate-low. Higher hydraulic conductivity is associated with monitoring wells located in the southern portion of the Site (i.e., MW4 and MW5), suggesting coarser deposits in those areas. For example, at the location of

MW1, a higher proportion of silt within the sand layer, described as “trace to some silt” with “occasional silty seams” within the screened interval, was reported during drilling (JLP 2023).

### **3.5. Groundwater Quality**

Samples of groundwater were collected from each of the five monitoring wells, MW1 through MW5.

Results of analyses are provided in Appendix G (laboratory certificate of analysis) and are summarized in Table 3 for metals parameters and Table 4 for general chemistry parameters.

Generally, the results of the analyses indicate that the quality of the groundwater in the shallow sand aquifer is compliant with Provincial Water Quality Objectives with exception of elevated total phosphorus. Qualitatively, the groundwater quality results are characterized by moderate mineralization, as indicated by the elevated hardness, calcium, and magnesium concentrations.

There is some evidence of anthropogenic impacts to the shallow aquifer, such as elevated nitrate (ranging from 1.47 to 7.56 mg/L, with the highest concentration having been recorded at MW2), sodium (49 to 110 mg/L), and chloride (26 to 190 mg/L).

Elevated nitrate concentrations are likely due to impacts from agricultural activities (i.e., application of nitrogenous fertilizers). The elevated sodium and chloride concentrations are likely due to the application of road salt.

Total phosphorus was elevated above the PWQO limit of 0.01 mg/L at the one location for which it was analyzed (MW1) though orthophosphate concentrations were reported to be below the laboratory detection limit at all locations.

As the analytical results are noted to be compliant with the PWQO, it is expected that groundwater taken up by construction dewatering activities would be suitable for discharge to land provided that appropriate erosion and sediment control practices are implemented to mitigate potential impacts associated with suspended solids which may be generated during excavation and in-trench work. The use of erosion and sediment control is also expected to mitigate concentrations of total phosphorus in the discharge water before release to the environment.

### **3.6. Surface Water Quality**

A sample of surface water was collected for laboratory analysis of general chemistry parameters. This sample was collected from location SW-001 (see Figure 6), located on the flowing drainage feature in the southwestern part of the Site. It is understood that runoff from properties to the east of the Site (i.e., Victoria Crescent) drains toward and onto the Site via a culvert and that this culvert discharges into a ditch on-site. The ditch conveys the runoff in a southerly direction toward SW-001 and beyond toward the low-lying wetland area off-Site.

Results of analyses are provided in Appendix G (laboratory certificate of analysis) and are summarized in Table 5 for metals parameters and Table 6 for general chemistry parameters.

Generally, the results of the laboratory analyses indicate that the quality of the surface water in the drain traversing the Site is compliant with Provincial Water Quality.

Qualitatively, the surface water quality is similar to the groundwater quality on-site and is characterized by moderate mineralization, as indicated by the elevated hardness, calcium, and magnesium. There is also some evidence of anthropogenic impacts, such as elevated nitrate (4.95 mg/L), sodium (170 mg/L), and chloride (250 mg/L). Elevated nitrate concentrations are potentially due to impacts from agricultural activities (i.e., application of nitrogenous fertilizers). The elevated sodium and chloride concentrations are likely related to the application of road salt on municipal roadways in vicinity of the Site.

## 4. Hydrogeological Conceptual Model

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A “conceptual model” of a Site describes its physical setting and provides an interpreted overview of the hydrogeological behavior of the Site. It provides a basis for general understanding of groundwater flows and other hydrogeological phenomena as well as a basis for the assessment of potential impacts.

The topography of the Site generally favours drainage to the southerly part of the property. A culvert-and-ditch drain convey runoff toward the low-lying area in the southern part of the property. The drain is interpreted to intersect the groundwater table during periods of high groundwater (i.e., spring freshet) but during other times of the year the groundwater table is understood to lie below the drain.

Runoff from the Site is understood to flow toward a wetland area beyond the southern property boundary. That wetland is part of a series of connected wetlands and drainage features conveying surface water toward the Grand River.

The main hydrostratigraphic units identified on-site are as follows:

- Glaciofluvial deposits, overlying
- Glacial Till, overlying
- Guelph Formation (bedrock)

The glaciofluvial deposits (kame, outwash/ spillway sediments) consist of a silt veneer (extending 1 to 1.8 mbgs) overlying sand (extending 4 to 7.6 mbgs). The sand is saturated and constitutes a shallow aquifer on-site.

The glacial till, due to its density and relatively large proportion of silt, is characterized as an aquitard. Based on the thickness of the till indicated in the local well records, the till is understood to provide a substantial degree of hydraulic separation from the underlying Guelph Formation aquifer.

The presence of the till aquitard is interpreted to govern the flow of groundwater on-site. Due to the low-hydraulic conductivity of the till, seepage into and through the till is expected to occur at a relatively low rate. Flow in the overlying glaciofluvial sand is interpreted to be primarily lateral. Based on groundwater levels and interpreted groundwater gradients and contours, the horizontal component of groundwater flow is in a southerly direction toward the drainage corridor in the “environmental protection”-zoned lands to the south of the Site.

The seasonal fluctuation of groundwater levels on-site is relatively small, with only about 1 to 1.5 m separating the maximum and minimum annual groundwater levels at a given location. This indicates that the shallow glaciofluvial aquifer is laterally extensive and conductive enough to maintain relatively consistent groundwater levels throughout the year.

Groundwater levels in the northern part of the Site remain well below ground surface throughout the year. However, in the low-lying areas in the southern part of the Site, groundwater levels approach

ground surface during the spring freshet. At times, groundwater levels rise high enough to intersect the ditch in the southern part of the Site, indicating that flows in the ditch in the springtime may be a seasonal expression of the groundwater table at surface.

Groundwater quality on-site is characteristic of shallow overburden groundwater in the Guelph-Wellington Area, with moderate mineralization indicated by elevated magnesium and calcium concentrations. Elevated sodium and nitrate concentrations indicate some moderate anthropogenic influence on the shallow groundwater on-site. No significant impacts to groundwater quality have been identified that would preclude construction dewatering, or that would require substantial treatment of groundwater during construction dewatering: erosion and sediment control is likely to be sufficient.

## 5. Construction Dewatering Assessment

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Due to the occurrence of groundwater on-site within the range of proposed excavation for servicing and stormwater management facility construction, it is expected that some degree of dewatering will be necessary to facilitate construction.

Elevations of basements and building foundations are proposed to lie at elevations above seasonal high groundwater levels. However, some amount of dewatering may be needed to facilitate construction (i.e., ensure trafficability, provide firm subgrade during foundation construction).

### 5.1. Dewatering Rates

Dewatering is expected to be greatest at the location of the tie-in to the existing sanitary sewer on Sideroad 19. This is because groundwater levels are highest in the northern part of the Site (cf. MW1 Chart 1 in Appendix F) and because the depth of proposed excavation is greatest at that location. Additional dewatering is expected to occur at the stormwater management facility forebay because excavations there are expected to extend below groundwater.

Though basements are proposed to be set at elevations above groundwater, some minor dewatering may be required if it is necessary to groundwater levels even further below the base of excavation to improve the ground, ensure trafficability in the excavation and facilitate construction. The maximum drawdown required for the dewatering of basements would be relatively small (~0.3 m).

Expected dewatering rates have been estimated using analytical models based on the Dupuit-Forchheimer assumptions for flow to wells and trenches in unconfined aquifers (Powers *et al.*, 2007). The calculations for dewatering are provided in Appendix I, including the mathematical formulae used as well as a description of the parameters entered into the analyses (e.g., static groundwater levels, target groundwater levels, hydraulic conductivity of soils, boundary conditions).

The results of the analysis indicate the following:

- Servicing (Sanitary Sewer)
  - Typical Expected Dewatering Rate: 24,000 L/d
  - Maximum Expected Dewatering Rate: 227,000 L/d
- Stormwater Management Facility
  - Typical Expected Dewatering Rate: 16,000 L/d
  - Maximum Expected Dewatering Rate: 73,000 L/d
- Basement
  - Typical Expected Dewatering Rate: 0 L/d
  - Maximum Expected Dewatering Rate: 29,000 L/d

For the dewatering estimates for the servicing and the stormwater management facility, the difference between the estimation approaches for the typical and maximum dewatering rates is in the selection of

hydraulic conductivity, which has been identified to vary from location to location on-site. The typical estimate is based on the hydraulic conductivity obtained through analysis of single well response testing at the monitoring well nearest to the point of interest: MW-1 for the sanitary sewer, as MW-1 is the nearest monitoring well to SR19 (i.e., the location of deepest excavation); MW-5 for the stormwater management facility, as MW-5 is also located toward the southern end of the Site. The maximum estimate is based on the highest hydraulic conductivity estimate obtained from single well response testing on-site (specifically at MW4).

For the basement dewatering, the difference between the estimation approaches for typical and maximum dewatering rates is in the selection of drawdown. In the typical case, it is expected that no drawdown would be required (and therefore no dewatering), whereas in the maximum case it is assumed that up to 0.3 m of drawdown would be required. The hydraulic conductivity was estimated at  $5 \times 10^{-6}$  m/s to represent the silt material in the shallow overburden in which the basement excavations would likely be located.

## 5.2. Approvals Requirements

Construction dewatering is regulated in Ontario under the *Ontario Water Resources Act* via the Permit to Take Water program and also the *Environmental Protection Act* via the Environmental Activity and Sector Registry program. The decision as to which program is applicable depends largely on the expected daily dewatering volumes and on the ability for the dewatering activity to be conducted in accordance with certain operating requirements listed in O.Reg. 63/16.

Due to the expected dewatering rates being in excess of 50,000 L/d but below 400,000 L/d, it is recommended that the construction dewatering activity be registered to the Environmental Activity and Sector Registry (EASR).

Dewatering activities registered to EASR must be conducted in accordance with a project-specific water-taking and discharge report prepared by a Qualified Person (e.g., engineer or geoscientist licensed to practice in Ontario). Ontario Regulation 63/16 lays out the terms of reference of the water-taking and discharge plan.

The water-taking and discharge plan must be prepared before the activity is registered, and the activity must be registered before water-taking begins.

## 5.3. Zone of Influence

The zone of influence for dewatering is determined by estimating the radius of influence, which is the distance from the water-taking area at which there is expected to be no measurable drawdown in the groundwater table.

The radius of influence ( $R_0$ ) was estimated using the Sichart equation (see Appendix I) to be 103 m for the sanitary sewer construction and 53 m for the stormwater management facility construction.



The zone of influence is that area that is located within  $R_0$  of the edge of excavation, where  $R_0$  is the radius of influence of that excavation.

Based on the locations of the dewatering activities, the estimated zones of influence for the Stormwater management facility and the servicing dewatering work are illustrated in Figure 8. For basements, the estimated zone of influence is very small (estimated to be 2 m from the edge of excavation): it does not extend off-site and is therefore not shown in Figure 8.

It is noted that the estimated zones of influence depicted in Figure 8 are maximum estimates of the size of the zone of influence. This is because the estimates are based on an upper limit estimate of the hydraulic conductivity as well as an upper limit estimate of drawdown. If construction dewatering occurs during summer or fall when groundwater levels are at their seasonal lows, the zone of influence would be expected to be smaller than depicted in Figure 8.

## **5.4. Water-Taking Methodology**

All water-taking for construction dewatering shall be undertaken in accordance with a water-taking plan prepared according to the requirements of Ontario Regulation 63/16.

Based on the anticipated depth of excavation below groundwater, it may be beneficial to begin dewatering in advance of excavation using a wellpoint system. By drawing down the groundwater table to below the depth of excavation, the stability of soils would be improved and it would be possible, according to the requirements to Ontario Regulation 213/91, to reduce excavation support requirements or to steepen the slopes of excavations (e.g., to 1H:1V for Type 3 soils).

However, if it is feasible to proceed with a wide excavation (i.e., 3H:1V for Type 4 soils) or with more intensive engineered shoring (e.g., sheet pile systems), then dewatering may be conducted using sump pumps.

## **5.5. Monitoring and Mitigation**

Detailed monitoring and mitigation plans shall be specified in the water-taking and discharge report prepared according to O.Reg. 63/16. However, the following recommendations are provided for consideration in the development of that plan.

### **5.5.1. Water-Taking**

Monitoring activities for water-taking shall include the daily measurement of the volume of water taken, settlement monitoring, and the undertaking of a well monitoring program.

#### Settlement Monitoring Program

The settlement monitoring program should establish a number of control points that will be continuously accessible throughout the project. It is recommended that settlement monitoring be

conducted daily on any day when dewatering exceeds 50,000 L/d. The settlement monitoring program should establish a threshold at which mitigation should be implemented.

### Well Monitoring Program

The initial stage of the well monitoring program would be to conduct a door-to-door well survey for all properties within a specified distance of the expected dewatering locations. For the purposes of this project, it is recommended that that distance be established to enclose the area within which dewatering-induced drawdown would be expected to exceed 0.5 m. This distance can be determined using Cooper-Jacobs' assumptions of a log-linear proportionality between distance from the excavation and drawdown:

$$s(x) = s_{max} \left( \frac{\log(R_0) - \log(x)}{\log(R_0) - \log(r_w)} \right)$$

Where:

- s(x) is the drawdown at distance x (set to be 0.5 m)
- s<sub>max</sub> is the maximum drawdown (i.e., target drawdown at the excavation)  
(4.1 m for the sewer, 1.9 m for the stormwater management facility)
- x is the distance from the excavation to the point of interest (to be determined)
- R<sub>0</sub> is the radius of influence of dewatering  
(103 m for the sewer, 53 m for the stormwater management facility)
- r<sub>w</sub> is the half width or equivalent radius of the excavation  
(1.5 m for the sewer, 2.3 for the stormwater management facility).

The resulting buffer distances are 61 m for the sanitary sewer and 23 m for the stormwater management facility. The area within these buffers is referred to as the "Well Monitoring Buffer". The layout of the well monitoring buffer is illustrated in Figure 9.

The door-to-door well survey is therefore recommended to be conducted at each of the following properties which have been identified to be within the well monitoring buffer:

- Sideroad 19: 87, 86, 83, 80, 74, 70, 69, 66, 63
- Elizabeth Crescent: 231, 233, 235, 301, 303
- Victoria Crescent: 9, 15, 19, 23, 27, 29

Any property within the well monitoring buffer identified above that utilizes a private well shallower than 15 m shall be invited to participate in a well monitoring program. The well monitoring program would be conducted at the wells of those well owners who agree to join the monitoring program. The monitoring program shall seek to measure baseline groundwater levels in the participating wells prior to construction and also monitor for changes in groundwater levels over the course of construction.

Mitigation activities related to water-taking would be associated with potential settlement-related impacts or impacts to private wells.

With respect to settlement, possible mitigation options would be to attempt to optimize dewatering by shortening open trenches or implementing alternate shoring systems or construction methodologies (e.g., trenchless technologies) to reduce reliance on dewatering.

With respect to private wells, any complaints received from well owners shall be addressed in a timely manner. This includes committing to provide a temporary alternate source of drinking water in the event that the water supply available to their wells is affected during the dewatering activity.

### ***5.5.2. Discharge Management***

All discharge for construction dewatering shall be undertaken in accordance with a discharge report prepared according to the requirements of Ontario Regulation 63/16.

Based on the results of analysis of groundwater samples collected from the on-site monitoring wells, it is expected that groundwater quality will be suitable for discharge to the environment provided that appropriate erosion and sediment controls are provided.

The contractor undertaking the dewatering shall implement appropriate discharge management and erosion and sediment control measures such as filter bags, check-dam impoundments, and/or channel/surface armouring. All such measures shall be implemented in accordance with *Ontario Provincial Standard Specifications (OPSS)*:

- *OPSS.MUNI 518: Construction Specification for Control of Water from Dewatering Operations*
- *OPSS.MUNI 805: Construction Specification for Temporary Erosion and Sediment Control Measures.*

Specific erosion and sediment control requirements, if applicable shall be detailed in the discharge report prepared according to O.Reg 63/16.

Inspection of all components of the discharge management and erosion and sediment control system (e.g., hoses, fittings, pumps, check-dams, filter bags, sedimentation tanks etc) shall be conducted daily.

Due to proximity to an off-Site wetland, it is recommended that the discharge water be tested daily for turbidity.

Turbidity of discharge water incident on the wetland should have a turbidity of less than 8 NTU above the “background” turbidity of the receiver. Therefore, background turbidity testing of the water in the wetland shall be completed before beginning dewatering. The discharge plan should provide recommendations on how to conduct background monitoring for this purpose.

## 6. Impact Assessment

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A proposed development may result in hydrogeological impacts to water quality or to water quantity.

A given receptor may be impacted by both, either, or neither of these types of impacts depending on the potential severity of the effect, whether there is a pathway between the source and the receptor, and whether the receptor is sensitive to that type of impact.

Based on assessment of the Site and surrounding lands within the Study Area, the following receptors have been identified:

- Source Protection and Municipal Water Supplies
- Private Water Wells
- Ecological Receptors (i.e., nearby wetland areas)
- Construction and Development (i.e., structures proposed to form part of the development).

### 6.1. Source Protection and Municipal Water Supplies

The Site lies within a WHPA-B with vulnerability ranging from 10 (north part of the Site) to 8 (south part of the Site) (LERSPC, 2022).

The Site also lies within a “Significant” Wellhead Water Quantity Zone “Q1” (LERSPC, 2022).

The local Source Protection Plan (LERSPC, 2022) provides a list of policies applicable to these areas which are to be followed to avoid impacts to municipal water resources. Furthermore, the *2021 Technical Rules under the Clean Water Act* (MECP, 2021) identify certain activities as “significant drinking water threats” which must be avoided or addressed according to the Source Protection Plan policies, potentially through the development of a “Risk Management Plan” (RMP).

#### 6.1.1. Quantity

Generally, the activities associated with the development that may affect the quantity of groundwater available to municipal water supplies are:

1. Water-taking for construction dewatering
2. Potential reduction of recharge to an aquifer (i.e., due to increased impervious area and paving associated with development)

The proposed water-taking for construction dewatering is not considered a “significant drinking water threat” under the *Technical Rules* because it is an activity that does not require a Permit to Take Water. Therefore, no RMP is required for this activity.

However, the potential reduction of recharge to an aquifer is identified by the *Technical Rules* as being a “significant drinking water threat” by virtue of the Site being located within a “Significant” WHPA-Q. Source Protection policy WC-MC-23.5 (LERSPC, 2022) applies, requiring the proponent to:

- Provide a water balance for the proposed development;
- Maintain pre-development recharge quantities to the greatest extent feasible through implementation of best management practices and “low impact development” (LID) features; and
- Where pre-development recharge cannot be maintained on-site, maximize off-site recharge enhancement to compensate for the expected decrease in recharge.

A water balance has been prepared under separate cover as part of the functional servicing report for the proposed development (GEI, 2024). The water balance calculations indicate that the proposed development would result in a decrease in total groundwater recharge on-site of approximately -1,408 m<sup>3</sup>/year, corresponding to a decrease of about 50.5% relative to existing conditions.

The functional servicing report (GEI, 2024) also provides an analysis of the proposed development and the potential to install LID features (e.g., bioswales, infiltration galleries) to mitigate the change in recharge that is anticipated to occur post-development. That analysis indicates that, due to the existing high groundwater levels on-site, it is not feasible to provide substantial enhanced recharge through the construction of LID structures. This is primarily because design guidance and municipal requirements specify a minimum clearance of 1.0 m between the underside of the LID structure and the seasonal high groundwater levels at that location. As discussed in the functional servicing report (GEI, 2024) this clearance is not feasible to achieve at the Site.

Hydrogeologically, it is expected that the change in recharge will not have a significant impact on groundwater levels or on overall recharge to municipal groundwater resources. The primary rationale is that recharge that occurs on-site is largely constrained from influencing the municipal source aquifer (e.g., bedrock aquifers, such as the Guelph Formation) due to the substantial thickness of dense, fine-textured glacial till that separates the surficial glaciofluvial aquifer from the municipal source aquifer. Much of the recharge on-site ultimately remains in the surficial aquifer, flowing through the subsurface toward the rear property line and along the connected wetland features beyond the southern boundary of the Site. Furthermore, it is noted that there has been extensive development elsewhere in the catchment area (e.g., lands to the east on Victoria Crescent) and groundwater levels remain very high at the Site. Therefore, the effect of development of the Site is not expected to be significant.

### **6.1.2. Quality**

The *Technical Rules* identify several activities that would be considered a “significant drinking water threat” within a WHPA-B(10) zone. Some of these activities will not be occurring on-site (e.g., de-icing of aircraft, storage or application of agricultural source material, disposal of sewage, landfilling) and are not necessary to address in detail.

Activities that are or may reasonably be expected to occur on-site during or post-construction are as follows:

- Fuel handling and storage
- Road salt application
- Snow storage
- Dense Non-Aqueous Phase Liquid (DNAPL) handling and storage

#### Fuel Handling and Storage

Fuel handling and storage, in relation to the proposed development, would only be considered a “significant drinking water threat” in circumstances where the fuel storage vessels exceed 250 L in capacity and where fuel handling and storage is conducted at a “facility” as defined in O.Reg. 217/01 (i.e., retail fuel outlets or a private fuel outlet) or 213/01 (an installation where fuel oil is handled).

The latter circumstance is not expected to apply as fuel oil is not expected to be used at the property.

However, the use of mobile fuel tanks to fill construction vehicles may be considered an instance of a “private fuel outlet”. The municipality may require a Risk Management Plan if fuel tanks exceeding 250 L in capacity are to be used on-site, such as for the purposes of refueling construction equipment.

#### Road Salt Application

Road salt application in a WHPA-B is considered to be a “significant drinking water threat” where impervious area exceeds 30% in a WHPA-B.

A Salt Management Plan is recommended to be completed and implemented for the proposed development. The plan should address salt management during construction as well as post-construction conditions (i.e., long-term maintenance of roads).

#### Snow Storage

Per the *Technical Rules*, snow storage is not considered to constitute a “significant drinking water threat” in a WHPA-B if the land use is residential. Therefore, snow storage is not considered to be a “significant drinking water threat” and no RMP is required.

#### DNAPL Handling and Storage

According to the *Technical Rules*, the “DNAPL handling and storage” activity applies only to certain industrial and commercial settings and uses, such as manufacturing and chemical processing facilities. However, the Site will be under residential use.

As such, it is considered that, in the context of Source Protection, the DNAPL handling and storage activity will not occur at the Site during construction or operation. Therefore, there is no “significant drinking water threat” associated with DNAPL handling or storage at the Site.

## **6.2. Private Water Wells**

Private water wells may be in use at some properties in Fergus, mainly for residential use. The potential for impacts to those wells must therefore be considered.

### **6.2.1. Quantity**

In terms of water quantity, the primary stressor is construction dewatering. Due to the shallow depth of the excavations to be dewatered and the correspondingly small drawdowns, shallow (<15 m) overburden wells being the most likely to be affected. Deeper wells, wells in the bedrock aquifer, or wells located outside the established drawdown buffer zone (i.e., 61 m from the sanitary sewer and 23 m from the stormwater management facility forebay) are not likely to be affected because the construction dewatering activities will not impart substantial or proportionally large drawdowns on those wells.

Within the well monitoring buffer, three MECP water well records have been identified to be overburden wells:

- WWR 6704003 – this well is attributed to the Site and is understood to be the well servicing the existing 79 Sideroad 19 residence.
- WWR 6704017 – this well is located to the east of the Site and appears to be attributed to the property at 23 Victoria Crescent
- WWR 6704751 – this well is located to the north of the Site and appears to be attributed to the property at 66 Sideroad 19.

Though only three overburden wells have been identified by review of the MECP Water Well Record Database, it is noted that some water well users may have shallow wells or old wells which were not required to have water well records submitted to the MECP.

Therefore, it is recommended that a door-to-door water well survey be completed prior to construction and that certain wells identified be invited to join a well monitoring program for the duration of construction dewatering. The recommendations regarding the door-to-door water well survey and well monitoring program are provided in Section 5.5.1 above.

### **6.2.2. Quality**

Water quality is not expected to be affected by the proposed development as the proposed development does not constitute a substantial change in land use and the activities associated with the proposed development are not considered to pose a high risk of generating or releasing contaminants into groundwater.

The application of road salt has been identified as a potential “significant drinking water threat” in the context of municipal Source Protection. A Salt Management Plan is recommended to be prepared and implemented to mitigate potential risks associated with road salt application and salt contamination of

municipal water resources: this same Salt Management Plan is also expected to mitigate impacts to water quality for other well users.

Construction dewatering is not expected to influence the water quality available to private wells because it is primarily a physical process (i.e., transfer of groundwater to surface). The management of construction dewatering discharge will involve physical processes (e.g., sedimentation, filtration) and is not expected to cause substantial changes to the chemistry of the water handled by the dewatering system, nor would the discharge water be expected to influence the quality of groundwater in the vicinity of the Site.

### **6.3. Ecological Receptors – Wetland Areas**

Wetland areas have been identified downgradient of the Site to the south and west.

It is expected that the discharge from the stormwater management pond on-site will eventually enter the wetlands as overland flow.

Recharge that occurs on-site is also likely to contribute to the wetland areas as groundwater flow.

#### **6.3.1. Quantity**

Activities with the potential to affect the water quantity available to the nearby wetland areas include the stormwater management facilities and construction dewatering activities on-site.

Construction dewatering is not expected to impact the wetland areas because the most intensive dewatering activities will occur at the north end of the Site, indicating that the drawdown influence at the wetland will be minor to negligible. Furthermore, the dewatering activities will be temporary and the slight water level change that might occur due to dewatering would subside shortly after the conclusion of dewatering.

One aspect of minimizing hydrogeological impacts associated with stormwater management is to ensure that the water balance does not significantly alter the quantity of groundwater recharge. Water balance calculations prepared by GEI (2024, under separate cover) in the functional servicing report for the proposed development indicate that the proposed development would decrease recharge from on-site catchments by approximately 50.5% (1,408 m<sup>3</sup>/year). Rationale has been provided in previous above (see Section 6.1.1) as to why the change in recharge is not expected to significantly affect hydrogeological conditions and groundwater levels on-site. Furthermore, it is expected that because the wetland areas form a local drainage route for stormwater, the hydroperiod of the wetlands will not be substantially affected by the change in recharge because surface water and runoff contributions will continue to maintain moisture conditions in these wetland areas. Therefore, negative impacts to the water balance of the wetland areas is not expected to occur as a result of the proposed development.

Another aspect of water quantity impacts is the rate of flow: excessive flows may result in flooding of downgradient receivers. However, the stormwater management pond has been designed to mitigate peak flows to ensure that excessive flooding will not occur in the receiving wetland areas.



Erosion is an additional concern that is related to water quantity. High quantities of water discharge correspond to higher flow velocities which may cause entrainment of soils and sediments, which could impact receiving wetlands and stream channels. The construction dewatering activities are not expected to generate high quantities of water (i.e., less than 400,000 L/d) and the potential for erosion to be caused by construction dewatering discharge will be minimized through the implementation of erosion and sediment control. Similarly, the stormwater management design will include appropriate measures to attenuate the rate of stormwater discharges from the stormwater management pond on-site, which will reduce potential for excessive erosion in the receiving environment.

Therefore, given the design and mitigation proposed, the proposed development is not expected to negatively impact the nearby wetland areas.

### **6.3.2. Quality**

In terms of water quality, water quality associated with construction dewatering discharge is not expected to cause impacts to downgradient wetlands because of the erosion and sediment controls that will be implemented.

The stormwater management facility is proposed to be designed in accordance with the MECP *Stormwater Management Planning and Design Manual* to provide a level of treatment to stormwater runoff before it is discharged from the stormwater management facility. This will mitigate potential impacts to the wetland in terms of water quality.

Water quality impacts to the wetland areas are therefore not expected.

## **6.4. Construction and Development**

Construction dewatering aspects have been addressed in Section 5. This section will therefore be related to the potential for impacts to the structures that are proposed to be built.

### **6.4.1. Quantity**

The primary impacts associated with quantity are inflow and infiltration into sewers or other structures on-site.

Because of the relatively high hydraulic conductivity of the soil materials on-site, breaches or leaks in sewer pipe may result in significant rates of inflow and infiltration. Wrapping of pipe joints should be considered as a way to minimize the potential for inflow and infiltration at any joint located more than 0.3 m below the seasonal high groundwater level.

To prevent services from becoming preferential flow paths for groundwater, it is recommended that all services installed at elevations below the identified seasonal high groundwater level surface be furnished with clay collars or trench plugs at regular spacing.

Basements for the proposed buildings of the Site will be set at elevations above seasonal high groundwater level. Therefore, impacts to basements with respect to groundwater seepage is not expected.

It is noted that a construction dewatering estimate has been provided for the excavation of basements and construction of foundations. However, this is not to be taken as an expectation of permanent dewatering. Dewatering during construction may sometimes be required to lower groundwater levels and ensure trafficability and firm subgrade conditions while the soil is exposed. Once the foundation is constructed and backfilled, it is expected that no further drainage would be necessary.

#### **6.4.2. *Quality***

The proposed development will be deriving its water supply from the existing municipal water supply system and not from private wells. Therefore, the water quality available to the users of the proposed development will therefore be controlled and no impacts are expected.

## **7. Monitoring and Mitigation**

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Based on the results of the impact assessment, the following monitoring and mitigation measures are recommended for the development.

### **7.1. Monitoring Activities – General**

This section addresses monitoring as it pertains to the development itself in its operation (i.e., post-development). Construction dewatering monitoring has been addressed in other sections (5.5, 7.3).

#### ***7.1.1. On-Site Groundwater Level Monitoring***

Groundwater level monitoring is recommended to continue at the existing monitoring wells until site plan approval has been obtained, or until municipal requirements have been met.

Once they are no longer needed for continued monitoring, the monitoring wells shall be decommissioned by a licensed water well drilling contractor and in accordance with the requirements of Ontario Regulation 903.

#### ***7.1.2. Groundwater Quality Monitoring***

Groundwater quality monitoring is not proposed as impacts to groundwater quality are not expected.

#### ***7.1.3. Surface Water Quality Monitoring***

Surface water quality monitoring is not proposed as impacts to surface water quality are not expected due to the mitigation measures proposed by the stormwater management plan.

### **7.2. Mitigation Activities – General**

#### ***7.2.1. Stormwater Management***

Stormwater management facilities will be designed according to the MECP *Stormwater Management Planning and Design Manual*. The design will therefore include elements to mitigate potential impacts associated with water quality (i.e., treatment of runoff during retention before discharge) and quantity (i.e., attenuation of peak flows to minimize erosion and potential for flooding).

#### ***7.2.2. Long Term Drainage or Water Taking***

Dwellings are being proposed with basements above the seasonal high groundwater level which will eliminate the need for long-term taking of groundwater by foundation drains.

Sewers proposed for elevations more than 0.3 m below the seasonal high groundwater level are recommended to be constructed with waterproof wrapping at all joints and connections. The intent of

this measure is to limit groundwater loss and drainage as well as to minimize inflow and infiltration which may result in excessive drainage loads on sanitary and/or storm sewers.

### **7.3. Monitoring and Mitigation Activities – Construction Dewatering**

Monitoring and mitigation regarding construction dewatering has been addressed in Section 5.5.

It is noted that the construction dewatering activities undertaken on-site are recommended to be registered to EASR.

As such, the details regarding construction dewatering monitoring and mitigation must be provided in a water-taking and discharge report which, per O.Reg. 63/16, is required to be prepared and implemented for construction dewatering activities registered to EASR.

## 8. Summary of Findings

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A hydrogeological study has been completed with respect to a proposed residential development to be constructed at 79 Sideroad 19, Township of Centre Wellington. The following is a summary of the findings of the study:

- The Site is approximately 1.1 ha in size.
- Municipal water services are available in the area but some residents may rely on private water wells for water supply. The proposed development will be municipally serviced for water and sewage.
- The topography of the Site consists of a relatively flat to gently sloping upland area in the northern part of the Site. In the southern part of the Site there is a slope down to a low-lying area, with wetland areas identified to the south and southwest of the Site.
- The Site is in the watershed of the Grand River and the River itself is located approximately 1,600 m south of Site.
- The Site is situated within the Guelph Drumlin Field physiographic region, with the northerly portion of the Site located within a Till Plain physiographic landform and the southerly portion of the Site within a Spillway landform.
- The hydrostratigraphy of the Site consists of:
  - Glaciofluvial deposits (silt veneer overlying sand; total thickness up to 7.6 m), overlying
  - Glacial Till, overlying
  - Bedrock (Guelph Formation)
- Groundwater level measurements made in shallow (total depth less than 7 m) monitoring wells on-site indicate groundwater elevations reaching 417.1 to 416.1 masl during “high” season (i.e., late winter and into spring), with higher elevations being observed in the northerly part of the Site and lower elevations being observed in the southerly part of the Site.
- Groundwater gradients indicate that the lateral component of groundwater flow is generally southerly (e.g. toward the low-lying area and off-site wetlands). The vertical component of groundwater flow is interpreted to be downward (i.e., recharge conditions) but downward seepage is constrained due to the presence of the low hydraulic conductivity till.
- Locally, groundwater resources supply both the municipal system and private water well users.
- In terms of source protection vulnerable areas the Site is located within a WHPA-B(8,10), Significant Groundwater Recharge Area, and WHPA-Q(Significant).
- Centre Wellington municipal supply well F7 is located approximately 580 m southwest of the Site.
- Hydraulic testing of overburden soils indicates that the average hydraulic conductivity of the surficial glaciofluvial sand unit ranges from  $3 \times 10^{-6}$  m/s to  $7 \times 10^{-5}$  m/s, indicating moderate to moderate-low hydraulic conductivity.
- Groundwater quality testing indicates compliance with the Provincial Water Quality Objectives despite evidence of minor influence of anthropogenic activities (e.g. elevated sodium and chloride due to road salt application; elevated nitrate and phosphorus due to fertilizer application).

- Surface water quality (as determined from analysis of a sample collected at the on-site drainage feature) generally meets the Provincial Water Quality Objectives with several elevated metal parameters as well as sodium and chloride inferred to be related to road salt application in the surrounding area.
- Construction dewatering is expected to be required for this site for the construction of servicing and the stormwater management facility. For approvals purposes the following dewatering rates have been estimated:
  - Servicing (Sanitary Sewer)
    - Typical Expected Dewatering Rate: 24,000 L/d
    - Maximum Expected Dewatering Rate: 227,000 L/d
  - Stormwater Management Facility
    - Typical Expected Dewatering Rate: 16,000 L/d
    - Maximum Expected Dewatering Rate: 73,000 L/d
  - Basements
    - Typical Expected Dewatering Rate: 0 L/d
    - Maximum Expected Dewatering Rate: 29,000 L/d
- The zone of influence of dewatering has been estimated to be those areas within 103 m of the sanitary sewer, within 53 m of the forebay of the stormwater management facility, and within 2 m of basement excavations.
- Based on the estimated dewatering rates, the construction dewatering activity is recommended to be registered to the Environmental Activity and Sector Registry.
- Recommendations for monitoring and mitigation during construction dewatering have been provided, including with respect to erosion and sediment control/ discharge management as well as well monitoring and settlement monitoring. It is noted that a more detailed monitoring and mitigation plan will be required to be developed in the preparation of a water-taking and discharge report according to Ontario Regulation 63/16.
- The following have been identified as potential receptors of hydrogeological impacts which may occur as a result of the development: private well users, municipal water supply (i.e., source protection), ecological receptors (i.e., off-site wetland areas), and structures built as part of the development (i.e., basements, sewers).
- Though it is estimated that the proposed development will result in a decrease in groundwater recharge on-site, due to other factors (i.e., hydraulic separation between the surface and the municipal source aquifer; the hydrological function of the wetland areas as receivers of surface water runoff) this decrease is not expected to have negative impacts on receptors in the Study Area.
- A general impact assessment has been completed regarding the proposed development and it is expected that the proposed mitigation measures, such as stormwater management pond, erosion and sediment control, and construction dewatering mitigation activities, will be sufficient to prevent to occurrence of negative impacts to the identified receptors.

## 9. Conclusions and Recommendations

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Having undertaken the hydrogeological study for the proposed residential development of 79 Sideroad 19, Township of Centre Wellington, GEI have identified no major obstacles that would preclude the development from proceeding.

GEI provide the following recommendations:

1. A water-taking and discharge report shall be prepared according to Ontario Regulation 63/16 and all construction dewatering activities shall be conducted in accordance with that report. That report shall include considerations for the following monitoring and mitigation measures (see Section 5.5 for more information):
  - a. Erosion and sediment control to minimize potential for discharge water to impact local surface water and receiving drainage features;
  - b. Turbidity monitoring of dewatering discharge
  - c. Settlement monitoring;
  - d. Door-to-door well survey to properties within 61 m of the sanitary sewer or within 23 m of the stormwater management facility forebay
    - Sideroad 19: 87, 86, 83, 80, 74, 70, 69, 66, 63
    - Elizabeth Crescent: 231, 233, 235, 301, 303
    - Victoria Crescent: 9, 15, 19, 23, 27, 29
  - e. Well monitoring program for all private wells identified by the door-to-door well survey that meet the following criteria:
    - i. Well is constructed in the overburden
    - ii. Total depth of the well is less than 15 m
2. Prior to the start of construction dewatering, the dewatering activities shall be registered to the Environmental Activity and Sector Registry with the following source information:
  - a. Assuming that the stormwater management facility and sanitary servicing will require dewatering concurrently:

▪ Source 1: Servicing Trenches	
• Maximum Estimated Dewatering	227,000 L/d
• Typical Estimated Dewatering	24,000 L/d
▪ Source 2: Stormwater Management Facility	
• Maximum Estimated Dewatering	73,000 L/d
• Typical Estimated Dewatering	16,000 L/d
▪ Source 3: Basements	
• Maximum Estimated Dewatering	29,000 L/d
• Typical Estimated Dewatering	0 L/d
  - b. Assuming that the stormwater management facility and sanitary servicing will require dewatering concurrently (areas of influence are expected to overlap):

- Source 1: Excavations
  - Maximum Estimated Dewatering 329,000 L/d
  - Typical Estimated Dewatering 40,000 L/d
- 3. A salt management plan shall be developed and implemented. This is a requirement under the local Source Protection Policies regarding potential impacts to municipal groundwater resources by road salt application.
- 4. A Risk Management Plan may be necessary to be developed for implementation during construction if construction equipment will be refueled on-site using tanks with fuel capacity exceeding 250 L. It is therefore recommended that, if feasible, refueling of on-site equipment be completed using jerricans and portable containers having capacity less than 250 L. The Contractor shall have a spill management plan and maintain a spill management kit on-site to address potential fuel releases that may occur during construction.
- 5. Groundwater levels shall continue to be monitored in on-site monitoring wells until site plan approval has been obtained, or until municipal requirements have been met.
- 6. Once the requirement for groundwater level monitoring has been achieved, the monitoring wells shall be decommissioned by a licensed water well drilling contractor and in accordance with the requirements of O.Reg. 903.
- 7. Due to the occurrence of groundwater levels above sewer inverts, it is recommended that waterproof wrapping be applied to all sewer joints where the pipe invert is greater than 0.3 m below the seasonal high groundwater level.
- 8. To prevent services from becoming preferential flow paths for groundwater, clay collars or trench plugs shall be installed along all services to be constructed below the seasonal high groundwater level surface.



## **10. Statement of Limitations**

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The information in this report is intended for the sole use of WrightHaven Homes Limited. GEI Consultants Canada Ltd. accepts no liability for use of this information by third parties. Any decisions made by third parties on the basis of information provided in this report are made at the sole risk of the third parties.

GEI Consultants Canada Ltd. cannot guarantee the accuracy or reliability of information provided by others. GEI Consultants Canada Ltd. does not accept liability for unknown, unidentified, undisclosed, or unforeseen surface or sub-surface conditions that may be later identified.

The conclusions pertaining to the condition of soils and/or groundwater identified at the site are based on the visual observations at the locations of the investigative boreholes/monitoring wells and on the reported laboratory results for the selected soil and/or groundwater samples. GEI Consultants Canada Ltd. cannot guarantee the condition of soil and/or groundwater that may be encountered at the site in locations that were not specifically investigated as part of this investigation. This report is considered to be representative of the condition of the Site as of March 28, 2024.

## 11. References

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## **Tables**

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**Table 1. Water Well Record Summary**

**Table 2. Monitoring Well Details and Summary of Water Level Measurements**

**Table 3. Summary of Groundwater Quality Analyses – Metals Parameters**

**Table 4. Summary of Groundwater Quality Analyses – General Chemistry Parameters**

**Table 5. Summary of Surface Water Quality Analyses – Metals Parameters**

**Table 6. Summary of Surface Water Quality Analyses – General Chemistry Parameters**

**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
<b>Wells Attributed to the Site</b>							
6704003	8/31/1971	5.5	-	3	Overburden	Domestic	
7125424	6/4/2009	7.6	-	-	Overburden	Monitoring	It is inferred that this well plots on site in error. MECP Well record states "infront of #48"
7370767	9/24/2020	4.9	-	-	Overburden	Monitoring	
<b>Wells Attributed to Off-Site Locations</b>							
6703120	4/23/1968	47.2	17.1	8.2	Bedrock	Domestic	
6703437	7/15/1969	38.4	24.4	7.3	Bedrock	Livestock	
6704017	9/22/1971	5.5	-	3	Overburden	Domestic	
6704053	1/22/1971	5.2	-	3	Overburden	Domestic	
6704054	1/25/1971	5.2	-	2.7	Overburden	Domestic	
6704374	9/30/1972	5.5	-	1.8	Overburden	Domestic	
6704746	7/31/1973	7	-	2.1	Overburden	Domestic	
6704747	8/1/1973	6.1	-	1.8	Overburden	Domestic	
6704748	8/7/1973	6.7	-	1.8	Overburden	Domestic	
6704751	8/15/1973	6.4	-	1.8	Overburden	Domestic	
6704752	8/15/1973	6.1	-	0.9	Overburden	Domestic	
6704757	8/16/1973	7.6	-	2.1	Overburden	Domestic	
6704780	9/12/1973	6.1	-	1.2	Bedrock	Domestic	
6705305	9/25/1974	72.5	72.2	23.8	Bedrock	Domestic	
6705317	10/10/1974	45.1	18	5.5	Bedrock	Domestic	
6705699	9/8/1975	7.6	-	1.8	Overburden	Domestic	
6706607	10/19/1977	4.6	-	1.5	Overburden	Domestic	
6707078	9/8/1979	9.1	-	3.7	Overburden	Domestic	
6708059	7/7/1983	55.2	23.2	18.3	Bedrock	Domestic	
6708481	6/24/1986	47.2	25	7.9	Bedrock	Domestic	
6710312	5/30/1990	43	27.1	22.6	Bedrock	Domestic	
6709226	11/2/1987	79.2	24.4	25.3	Bedrock	Domestic	
6709360	6/24/1988	74.7	24.7	18.3	Bedrock	Domestic	
6709436	9/28/1988	74.7	24.7	18.3	Bedrock	Domestic	
6709626	3/11/1988	44.2	21.9	14.6	Bedrock	Domestic	

**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
6709841	7/4/1989	103.6	70.1	29.6	Bedrock	Domestic	
6709871	8/12/1989	74.7	22.9	23.2	Bedrock	Domestic	
6710053	11/4/1989	4	-	2.7	Overburden	Domestic	
6710176	12/6/1989	97.8	22.3	24.4	Bedrock	Domestic	
6710274	11/15/1989	74.7	53.3	30.2	Bedrock	Domestic	
6711253	6/29/1993	41.1	23.5	10.7	Bedrock	Domestic	
6710558	8/31/1990	85	25.9	18.3	Bedrock	Domestic	
6710780	10/22/1991	93	76.8	15.2	Bedrock	Domestic	
6710877	7/8/1991	96	25.9	25.3	Bedrock	Domestic	
6710879	7/15/1991	54.9	26.8	10.7	Bedrock	Domestic	
6711273	9/24/1993	6.1	-	2.4	Overburden	Domestic	
6711379	1/25/1994	5.8	-	2.7	Overburden	Domestic	
6711428	6/14/1994	91.7	22.6	20.7	Bedrock	Domestic	
6711725	5/17/1995	4.6	-	3	Overburden	Domestic	
6711726	5/17/1995	3.7	-	1.8	Overburden	Domestic	
6712633	8/7/1998	54.3	23.2	24.4	Bedrock	Domestic	
6712675	10/13/1998	54.9	28	20.4	Bedrock	Domestic	
6712757	11/23/1998	67.1	26.5	20.4	Bedrock	Domestic	
6712767	10/30/1998	24.7	19.5	12.2	Bedrock	Domestic	
6712890	1/20/1999	96.9	73.2	36	Bedrock	Domestic	
6713080	8/17/1999	54.9	27.7	14	Bedrock	Domestic	
6714246	10/6/2002	56.4	25.6	29.6	Bedrock	Domestic	
6714247	10/9/2002	74.7	22.6	28	Bedrock	Domestic	
6714852	3/10/2004	9.4	-	1.5	Overburden	Domestic	
6714908	2/24/2004	51.9	23.8	40.0	Bedrock	Domestic	
6715686	3/31/2006	3.6	-	-	Overburden	Abandoned	
6715711	3/31/2006	3.6	-	-	Overburden	Abandoned	
6715931	9/8/2006	3	-	-	Overburden	Abandoned	
6716005	9/27/2006	101.2	24.1	25.6	Bedrock	Domestic	
7041270	1/18/2007	6.1	-	-	Overburden	Unknown	
7103575	10/25/2007	83.8	24.7	27.1	Bedrock	Domestic	
7122270	2/7/2009	4	-	1.7	Overburden	Monitoring	

**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
7122270	2/27/2009	4	-	1.7	Overburden	Monitoring	
7122270	2/27/2009	4	-	1.7	Overburden	Monitoring	
7125424	6/4/2009	7.6	-	-	Overburden	Monitoring	
7131004	5/26/2008	9.1	-	2.1	Overburden	Monitoring	
7140726	12/22/2009	4.6	-	-	Overburden	Monitoring	
7145093	4/27/2010	7.6	-	2.0	Unknown	Abandoned	
7145117	4/27/2010	3.7	-	2.8	Overburden	Monitoring	
7146695	5/7/2010	56.1	25.9	23.6	Bedrock	Domestic	
7140726	12/22/2009	4.6	-	-	Overburden	Monitoring	
7149988	7/26/2010	-	-	-	Unknown	Abandoned	
7145093	4/27/2010	9.1	-	2.4	Overburden	Abandoned	
7145117	4/27/2010	6.9	-	2.8	Overburden	Monitoring	
7145117	4/27/2010	5.5	-	2.3	Overburden	Monitoring	
7157841	11/23/2010	-	-	-	Unknown	Abandoned	
7158774	11/30/2010	-	-	-	Unknown	Abandoned	
7158777	11/30/2010	-	-	-	Unknown	Abandoned	
7158780	12/9/2010	47.5	22.6	20.4	Bedrock	Domestic	
7166539	6/24/2011	5.5	-	-	Overburden	Monitoring	
7166540	6/24/2011	4.3	-	-	Overburden	Monitoring	
7166541	6/24/2011	4.3	-	-	Overburden	Monitoring	
7166542	6/24/2011	4.3	-	-	Overburden	Monitoring	
7166643	7/2/2011	7.6	-	-	Overburden	Monitoring	
7166644	7/8/2011	5.3	-	-	Overburden	Monitoring	
7166645	7/8/2011	5.3	-	-	Overburden	Monitoring	
7166646	7/8/2011	5.3	-	-	Overburden	Monitoring	
7170667	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170668	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170669	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170670	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170671	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170672	9/12/2011	4.6	-	-	Overburden	Monitoring	
7170673	9/13/2011	4.8	-	-	Overburden	Monitoring	

**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
7170674	9/13/2011	4.5	-	-	Overburden	Monitoring	
7171671	8/27/2011	4	-	-	Overburden	Monitoring	
7171672	8/27/2011	4.5	-	-	Overburden	Monitoring	
7171673	8/27/2011	4.5	-	-	Overburden	Monitoring	
7171674	8/27/2011	4.5	-	-	Overburden	Monitoring	
7171675	8/27/2011	4.5	-	-	Overburden	Monitoring	
7171676	8/27/2011	4.5	-	-	Overburden	Monitoring	
7171677	8/27/2011	4.5	-	-	Overburden	Monitoring	
7172708	10/14/2011	-	-	-	Unknown	Abandoned	
7174062	10/4/2011	4.5	-	-	Overburden	Monitoring	
7174063	10/4/2011	4.5	-	-	Overburden	Monitoring	
7174064	10/3/2011	4.5	-	-	Overburden	Monitoring	
7174065	10/5/2011	6.1	-	-	Overburden	Monitoring	
7174138	10/5/2011	9.1	-	-	Overburden	Monitoring	
7174139	10/5/2011	5.3	-	-	Overburden	Monitoring	
7174140	10/5/2011	5.3	-	-	Overburden	Monitoring	
7174141	10/5/2011	5.3	-	-	Overburden	Monitoring	
7174142	10/14/2011	4.5	-	-	Overburden	Monitoring	
7174143	10/4/2011	6.1	-	-	Overburden	Monitoring	
7175378	10/24/2011	12.2	-	-	Overburden	Monitoring	
7175379	10/24/2011	7.6	-	-	Overburden	Monitoring	
7175380	10/21/2011	5.5	-	-	Overburden	Monitoring	
7175377	10/22/2011	7.7	-	-	Overburden	Monitoring	
7175381	10/21/2011	5.5	-	-	Overburden	Monitoring	
7175382	1/19/2011	5.2	-	-	Overburden	Monitoring	
7175383	10/25/2011	9.1	-	-	Overburden	Monitoring	
7175384	10/21/2011	5.2	-	-	Overburden	Monitoring	
7175385	10/26/2011	4.6	-	-	Overburden	Monitoring	
7175386	10/31/2011	9.1	-	-	Overburden	Monitoring	
7175387	11/1/2011	4.5	-	-	Overburden	Monitoring	
7179051	11/1/2011	9.1	-	-	Overburden	Monitoring	
7193783	<null>	9.4	-	4	Overburden	Domestic	



**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
7193784	<null>	9.1	-	3.3	Overburden	Domestic	
7194462	12/21/2012	-	-	-	Unknown	Abandoned	
7194463	12/12/2012	3.3	-	-	Unknown	Abandoned	
7194464	12/11/2012	3.3	-	-	Unknown	Abandoned	
7201197	4/29/2013	4.2	-	-	Overburden	Monitoring	
7201200	4/29/2013	3.9	-	-	Overburden	Monitoring	
7204618	5/27/2013	4.9	-	-	Overburden	Abandoned	
7213430	11/22/2013	4.6	-	-	Overburden	Monitoring	
7221589	5/29/2014	3.9	-	-	Unknown	Abandoned	
7221590	5/29/2014	4.2	-	-	Unknown	Abandoned	
7241640	4/10/2015	56.4	-	-	Bedrock	Abandoned	
7243283	5/26/2015	3.6	-	-	Overburden	Abandoned	
7265817	6/16/2016	4.6	-	-	Overburden	Monitoring	
7265818	6/16/2016	4.6	-	-	Overburden	Monitoring	
7268299	6/3/2016	4	-	-	Overburden	Abandoned	
7270847	8/24/2016	5.8	-	-	Overburden	Abandoned	
7270848	8/24/2016	97.5	-	-	Bedrock	Abandoned	
7300234	11/14/2017	28.9	-	-	Bedrock	Abandoned	
7300235	11/14/2017	5.2	-	-	Overburden	Abandoned	
7303552	12/27/2017	65.5	24.4	22.9	Bedrock	Domestic	
7310979	3/19/2018	-	-	2.4	Overburden	Domestic	
7319318	6/27/2017	4	-	2.1	Overburden	Abandoned	
7330871	2/14/2019	6.1	-	4.6	Overburden	Monitoring	
7330872	2/14/2019	6.1	-	4.6	Overburden	Monitoring	
7330873	2/14/2019	6.1	-	4.6	Overburden	Monitoring	
7338945	6/10/2019	3.1	-	-	Overburden	Abandoned	
7338946	6/10/2019	6.1	-	4.5	Overburden	Abandoned	
7344068	9/18/2019	3.3	-	-	Overburden	Monitoring	
7344061	9/19/2019	3.9	-	1.5	Overburden	Monitoring	
7344097	9/19/2019	3.9	-	1.5	Overburden	Monitoring	
7346404	8/27/2019	5.5	-	4.0	Overburden	Abandoned	
7346405	8/27/2019	7.9	-	3.0	Unknown	Abandoned	

**Table 1  
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
7350271	11/6/2019	50.3	28.6	12.8	Bedrock	Domestic	
7357949	10/10/2018	47.2	27.4	9.1	Bedrock	Domestic	
7367523	5/8/2020	23.8	-	9	Bedrock	Abandoned	
7368359	7/29/2020	70.1	-	-	Bedrock	Abandoned	
7368438	5/7/2020	49.4	27.1	39.3	Bedrock	Domestic	
7368733	9/15/2020	51.9	-	-	Bedrock	Abandoned	
7370766	9/24/2020	4.7	-	-	Overburden	Monitoring	
7372104	10/9/2020	-	-	-	Unknown	Unknown	
7372761	10/27/2020	-	-	-	Bedrock	Domestic	

**Table 2**  
**Monitoring Well Details and Summary of Water Level Measurements**

Well	NORTHING	EASTING	TOC Elevation (m)	GS Elevation (m)	Depth to water (mbTOC) 14-Mar-2023	Groundwater Elevation 14-Mar-2023	Depth to water (mbTOC) 3-Apr-2023	Groundwater Elevation 3-Apr-2023
MW1	4839992.6	548683.0	419.124	419.211	NA	-	2.022	417.102
MW2	4839945.8	548717.1	417.000	417.100	NA	-	0.025	416.975
MW3	4839948.0	548783.9	417.629	416.939	1.898	415.731	1.326	416.303
MW4	4839915.1	548749.9	417.057	416.302	1.434	415.623	0.949	416.108
MW5	4839889.2	548799.2	416.810	415.859	1.618	415.192	1.277	415.533
SW001	-	-	-	-	-	-	-	-

NA - well not accessible on the date of reading water levels (JLP 2023)

mbTOC - metres below top of well casing elevation

GS - ground surface

SW001 - surface water level in onsite creek surveyed on April 5, 2023

**Table 2**  
**Monitoring Well Details and Summary of Water Level Measurements**

Well	NORTHING	EASTING	TOC Elevation (m)	GS Elevation (m)	Depth to water (mbTOC) 5-Apr-2023	Groundwater Elevation 5-Apr-2023	Depth to water (mbTOC) 7-Jun-2023	Groundwater Elevation 7-Jun-2023
MW1	4839992.6	548683.0	419.124	419.211	2.054	417.070	-	-
MW2	4839945.8	548717.1	417.000	417.100	0.025	416.975	1.035	415.965
MW3	4839948.0	548783.9	417.629	416.939	1.296	416.333	-	-
MW4	4839915.1	548749.9	417.057	416.302	0.953	416.104	-	-
MW5	4839889.2	548799.2	416.810	415.859	1.246	415.564	-	-
SW001	-	-	-	-	-	415.489	-	-

NA - well not accessible on the date of reading water levels (JLP 2023)

mbTOC - metres below top of well casing elevation

GS - ground surface

SW001 - surface water level in onsite creek surveyed on April 5, 2023

**Table 2**  
**Monitoring Well Details and Summary of Water Level Measurements**

Well	NORTHING	EASTING	TOC Elevation (m)	GS Elevation (m)	Depth to water (mbTOC) 14-Jun-2023	Groundwater Elevation 14-Jun-2023	Depth to water (mbTOC) 28-Mar-2024	Groundwater Elevation 28-Mar-2024
MW1	4839992.6	548683.0	419.124	419.211	2.625	416.499	2.353	416.771
MW2	4839945.8	548717.1	417.000	417.100	-	-	0.533	416.467
MW3	4839948.0	548783.9	417.629	416.939	2.122	415.507	1.636	415.993
MW4	4839915.1	548749.9	417.057	416.302	1.809	415.248	1.222	415.835
MW5	4839889.2	548799.2	416.810	415.859	1.827	414.983	1.470	415.340
SW001	-	-	-	-	-	-	-	-

NA - well not accessible on the date of reading water levels (JLP 2023)

mbTOC - metres below top of well casing elevation

GS - ground surface

SW001 - surface water level in onsite creek surveyed on April 5, 2023

**Table 3**  
**Summary of Groundwater Quality Analyses - Metals Parameters**

<i>Parameter</i>	<i>PWQOs<sup>1</sup></i>	<i>Units</i>	<i>RDL</i>	MW1 04-03-23 02:00 PM	MW2 06-07-23 05:20 PM	MW3 03-14-23 12:30 PM	MW4 03-14-23 01:25 PM	MW5 03-14-23 12:45 PM
<b>Metals</b>								
Dissolved Aluminum (Al)	75	ug/L	4.9	<4.9	<4.9	<4.9	<4.9	<4.9
Dissolved Antimony (Sb)	20	ug/L	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Arsenic (As)	5	ug/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Barium (Ba)		ug/L	2.0	73	37	47	63	43
Dissolved Beryllium (Be)	11	ug/L	0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Dissolved Boron (B)	200	ug/L	10	22	34	59	49	23
Dissolved Cadmium (Cd)	0.5	ug/L	0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Dissolved Calcium (Ca)		ug/L	200	130000	120000	130000	140000	140000
Dissolved Chromium (Cr)		ug/L	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dissolved Cobalt (Co)	0.9	ug/L	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Copper (Cu)	5	ug/L	0.90	1.5	1.4	2	1.4	3.9
Dissolved Iron (Fe)	300	ug/L	100	<100	<100	<100	<100	<100
Dissolved Lead (Pb)	5	ug/L	0.50	<0.50	0.58	<0.50	<0.50	<0.50
Dissolved Magnesium (Mg)		ug/L	50	26000	26000	22000	28000	26000
Dissolved Manganese (Mn)		ug/L	2.0	44	<2.0	33	17	33
Dissolved Molybdenum (Mo)	40	ug/L	0.50	<0.50	<0.50	1.3	<0.50	0.6
Dissolved Nickel (Ni)	25	ug/L	1.0	1	<1.0	1.3	<1.0	2.3
Dissolved Phosphorus (P)		ug/L	100	<100	<100	<100	<100	<100
Dissolved Potassium (K)		ug/L	200	1300	1200	2300	1700	1300
Dissolved Selenium (Se)	100	ug/L	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Silicon (Si)		ug/L	50	5100	5200	5500	4900	4000
Dissolved Silver (Ag)	0.1	ug/L	0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Dissolved Sodium (Na)		ug/L	100	110000	51000	49000	94000	54000
Dissolved Strontium (Sr)		ug/L	1.0	240	210	220	260	250
Dissolved Thallium (Tl)	0.3	ug/L	0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dissolved Titanium (Ti)		ug/L	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dissolved Uranium (U)	5	ug/L	0.10	1.1	0.44	1.4	0.89	2.6
Dissolved Vanadium (V)	6	ug/L	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Zinc (Zn)	30	ug/L	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dissolved Bismuth (Bi)		ug/L	1.0	<1.0	<1.0	-	-	-
Dissolved Lithium (Li)		ug/L	5.0	<5.0	<5.0	-	-	-
Dissolved Tellurium (Te)		ug/L	1.0	<1.0	<1.0	-	-	-
Dissolved Tin (Sn)		ug/L	1.0	<1.0	<1.0	-	-	-
Dissolved Tungsten (W)	30	ug/L	1.0	<1.0	<1.0	-	-	-
Dissolved Zirconium (Zr)	4	ug/L	1.0	<1.0	<1.0	-	-	-

<b>Legend</b>	
Exceeds one Criteria	<b>Result</b>
Criteria 1	Provincial Water Quality Objectives

**Table 4**  
**Summary of Groundwater Quality Analyses - General Chemistry Parameters**

Parameter	PWQOs <sup>1</sup>	Units	RDL	MW1	MW2	MW3	MW4	MW5
				04-03-23 02:00 PM	06-07-23 05:20 PM	03-14-23 12:30 PM	03-14-23 01:25 PM	03-14-23 12:45 PM
<b>General Chemistry</b>								
Anion Sum		me/L		-	9.69	8.05	12.6	10.7
Bicarb. Alkalinity (calc. as CaCO3)		mg/L	1.0	310	350	290	360	300
Calculated TDS		mg/L	1.0	720	530	490	700	610
Carb. Alkalinity (calc. as CaCO3)		mg/L	1.0	2.2	2.9	2	2.2	1.8
Cation Sum		me/L		-	10.2	10.3	13.3	11.7
Hardness (CaCO3)		mg/L	1.0	420	400	410	460	470
Ion Balance (% Difference)		%		-	2.75	12.4	2.96	4.54
Langelier Index (@ 20C)		N/A		0.978	1.09	0.969	1.01	0.963
Langelier Index (@ 4C)		N/A		0.731	0.841	0.721	0.76	0.716
Saturation pH (@ 20C)		N/A		6.9	6.86	6.89	6.8	6.85
Saturation pH (@ 4C)		N/A		7.15	7.1	7.14	7.05	7.1
Conductivity		umho/cm	1.0	1300	950	760	1300	1100
Dissolved Organic Carbon		mg/L	0.40	-	1.6	1.8	1.8	2.5
Orthophosphate (P)		mg/L	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	6.5:8.5	pH		7.88	7.94	7.86	7.81	7.81
Dissolved Sulphate (SO4)		mg/L	1.0	58	23	49	50	93
Alkalinity (Total as CaCO3)		mg/L	1.0	310	350	290	370	300
Dissolved Chloride (Cl-)		mg/L	1.0 - 3.0	190	57	26	140	87
Nitrite (N)		mg/L	0.010	<0.010	<0.010	0.043	<0.010	<0.010
Nitrate (N)		mg/L	0.10	1.47	7.56	5.66	4.7	3.12
Nitrate + Nitrite (N)		mg/L	0.10	-	-	5.71	4.7	3.12
Total Ammonia-N		mg/L	0.050	0.074	0.095	0.11	0.056	0.085
Turbidity		NTU	0.1	28	-	-	-	-
Total Organic Carbon (TOC)		mg/L	0.40	2.6	-	-	-	-
Total Phosphorus	0.01	mg/L	0.004	<b>1.4</b>	-	-	-	-

Legend	
Exceeds one Criteria	<b>Result</b>
Criteria 1	Provincial Water Quality Objectives

**Table 5**  
**Summary of Surface Water Quality Analyses - Metals Parameters**

<i>Parameter</i>	<i>PWQOs<sup>1</sup></i>	<i>Units</i>	<i>RDL</i>	SW-001 03-14-23 01:00 PM
<b>Metals</b>				
Total Aluminum (Al)	75	ug/L	4.9	43
Total Antimony (Sb)	20	ug/L	0.50	<0.50
Total Arsenic (As)	100	ug/L	1.0	<1.0
Total Barium (Ba)		ug/L	2.0	54
Total Beryllium (Be)	11	ug/L	0.40	<0.40
Total Boron (B)	200	ug/L	10	37
Total Cadmium (Cd)	0.2	ug/L	0.090	<0.090
Total Calcium (Ca)		ug/L	200	150000
Total Chromium (Cr)		ug/L	5.0	<5.0
Total Cobalt (Co)	0.9	ug/L	0.50	<0.50
Total Copper (Cu)	5	ug/L	0.90	1.9
Total Iron (Fe)	300	ug/L	100	<100
Total Lead (Pb)	5	ug/L	0.50	<0.50
Total Magnesium (Mg)		ug/L	50	28000
Total Manganese (Mn)		ug/L	2.0	2.7
Total Molybdenum (Mo)	40	ug/L	0.50	<0.50
Total Nickel (Ni)	25	ug/L	1.0	<1.0
Total Potassium (K)		ug/L	200	1900
Total Selenium (Se)	100	ug/L	2.0	<2.0
Total Silicon (Si)		ug/L	50	3600
Total Silver (Ag)	0.1	ug/L	0.090	<0.090
Total Sodium (Na)		ug/L	100	170000
Total Strontium (Sr)		ug/L	1.0	560
Total Thallium (Tl)	0.3	ug/L	0.050	<0.050
Total Titanium (Ti)		ug/L	5.0	<5.0
Total Uranium (U)	5	ug/L	0.10	0.53
Total Vanadium (V)	6	ug/L	0.50	0.5
Total Zinc (Zn)	30	ug/L	5.0	5.1

<b>Legend</b>	
Exceeds one Criteria	<b>Result</b>
Criteria 1	Provincial Water Quality Objectives



**Table 6**  
**Summary of Surface Water Quality Analyses - General Chemistry Parameters**

<i>Parameter</i>	<i>PWQOs<sup>1</sup></i>	<i>Units</i>	<i>RDL</i>	SW-001 03-14-23 01:00 PM
<b>General Chemistry</b>				
Anion Sum		me/L		-
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )		mg/L	1.0	280
Calculated TDS		mg/L	1.0	910
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )		mg/L	1.0	4
Cation Sum		me/L		-
Hardness (CaCO <sub>3</sub> )		mg/L	1.0	450
Ion Balance (% Difference)		%		-
Langelier Index (@ 20C)		N/A		1.23
Langelier Index (@ 4C)		N/A		0.986
Saturation pH (@ 20C)		N/A		6.95
Saturation pH (@ 4C)		N/A		7.2
Conductivity		umho/cm	1.0	1700
Dissolved Organic Carbon		mg/L	0.40	-
Orthophosphate (P)		mg/L	0.010	<0.010
pH	6.5:8.5	pH		8.18
Dissolved Sulphate (SO <sub>4</sub> )		mg/L	1.0	130
Alkalinity (Total as CaCO <sub>3</sub> )		mg/L	1.0	290
Dissolved Chloride (Cl <sup>-</sup> )		mg/L	1.0 - 3.0	250
Nitrite (N)		mg/L	0.010	<0.010
Nitrate (N)		mg/L	0.10	4.95
Nitrate + Nitrite (N)		mg/L	0.10	-
Total Ammonia-N		mg/L	0.050	<0.050
Turbidity		NTU	0.1	0.4
Total Organic Carbon (TOC)		mg/L	0.40	2
Total Phosphorus	0.01	mg/L	0.004	0.005

<b>Legend</b>	
Exceeds one Criteria	<b>Result</b>
Criteria 1	Provincial Water Quality Objectives

# Figures

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**Figure 1. Site Location**

**Figure 2. Site and Study Area Layout**

**Figure 3. Physiographic Landforms**

**Figure 4. Surficial Geology**

**Figure 5. MECP Water Well Records**

**Figure 6. Site Investigation Layout**

**Figure 7. Groundwater Contours (April 2023)**

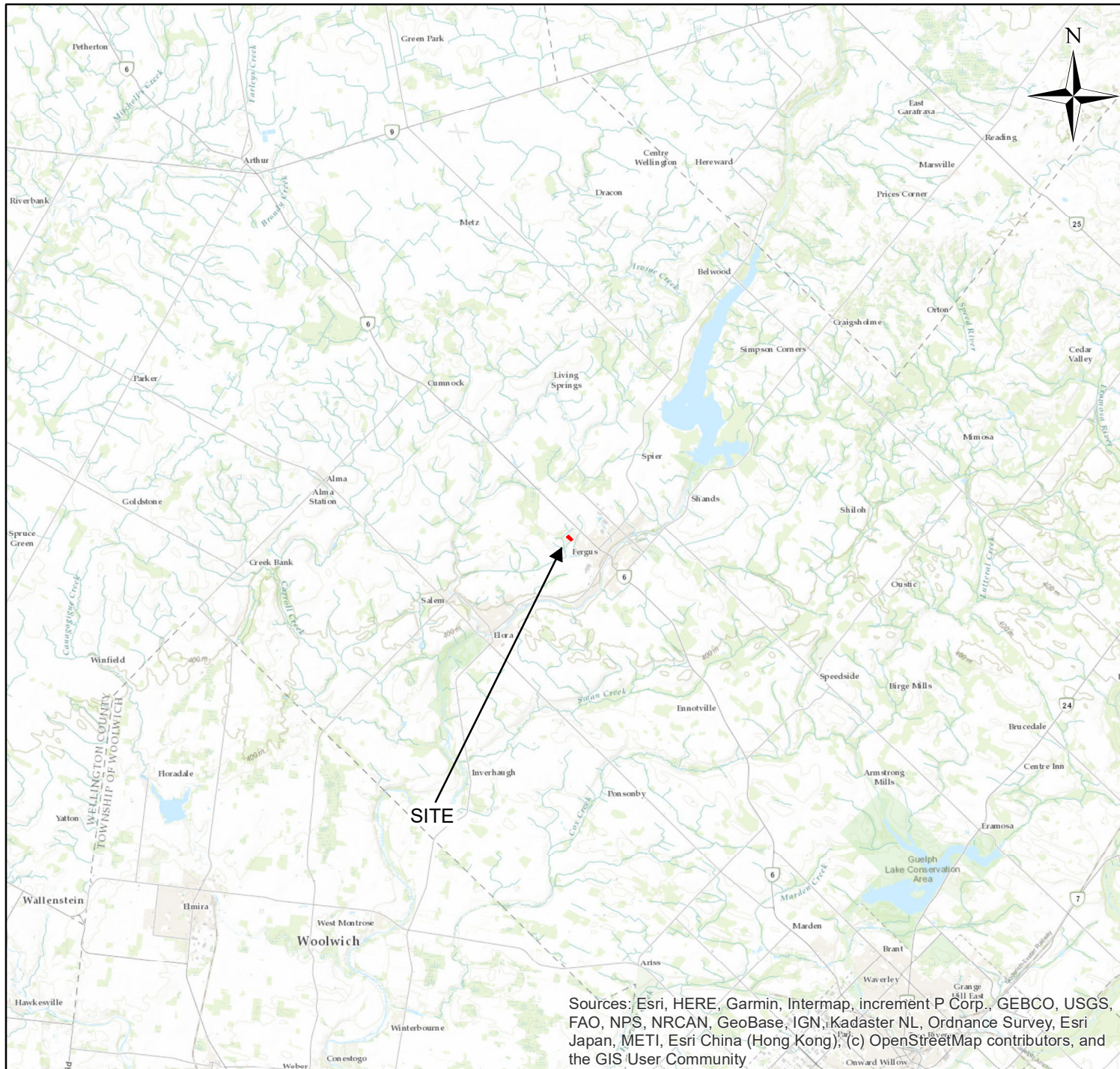
**Figure 8. Estimated Zone of Influence for Construction Dewatering**

**Figure 9. Well Monitoring Buffer Area**

Project: 2402265  
Hydrogeological Study  
Report

Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol



 Site Boundary (approx.)

Scale: 1: 200,000  
June 2024

Figure 1:  
Site Location

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Report

Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol



- Site Boundary (approx.)
- Study Area (500m)
- Roads

Scale: 1: 7,500  
June 2024

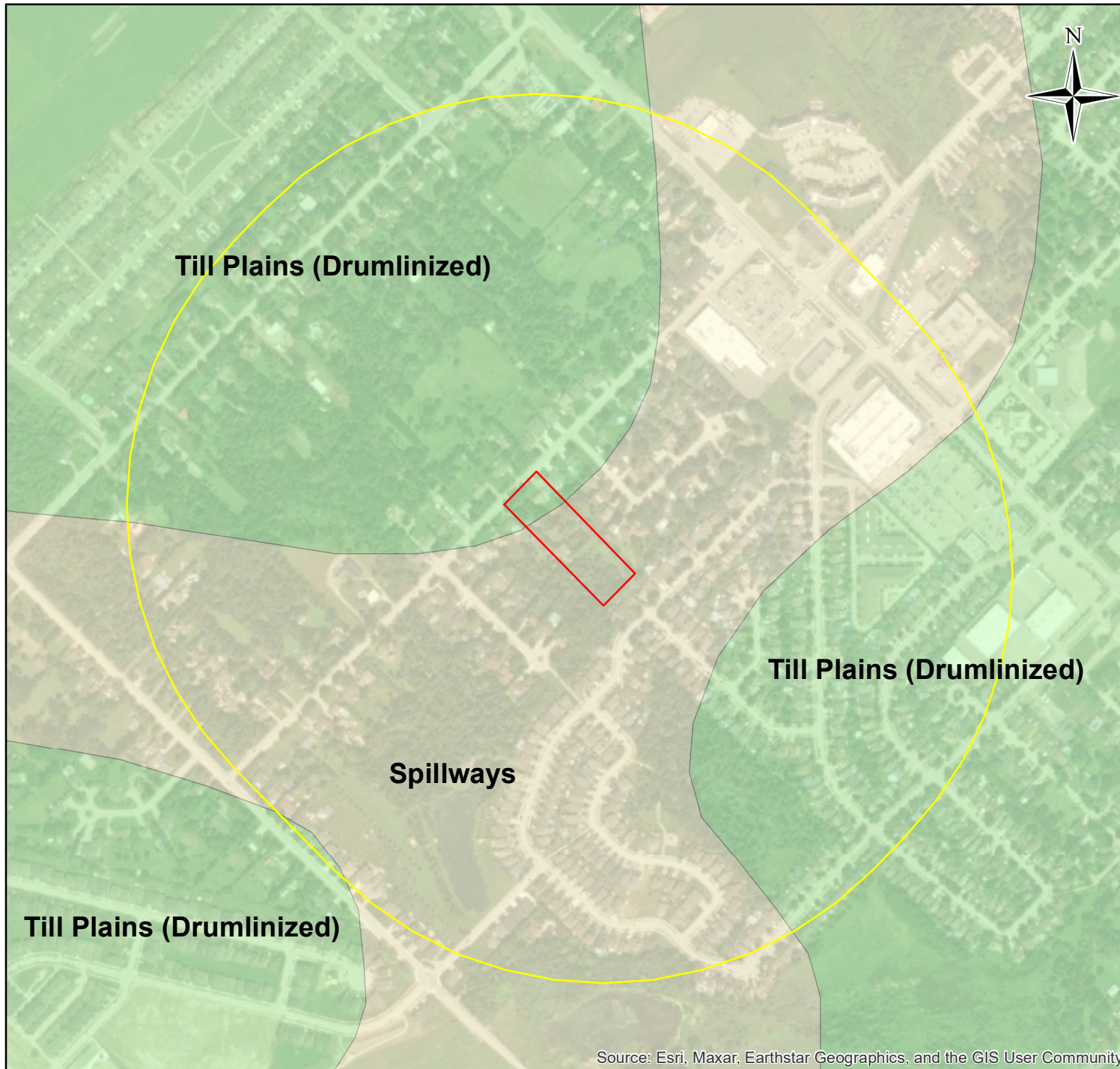
Figure 2:  
Site Layout





Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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Development at  
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Lot 19, Con 15  
Geo. Twp of Nichol



-  Site Boundary (approx.)
-  Study Area (500m)
- Physiography of Southern Ontario**
-  Spillways
-  Till Plains (Drumlinized)

Scale: 1: 7,500  
June 2024

Figure 3:  
Physiographic Landforms

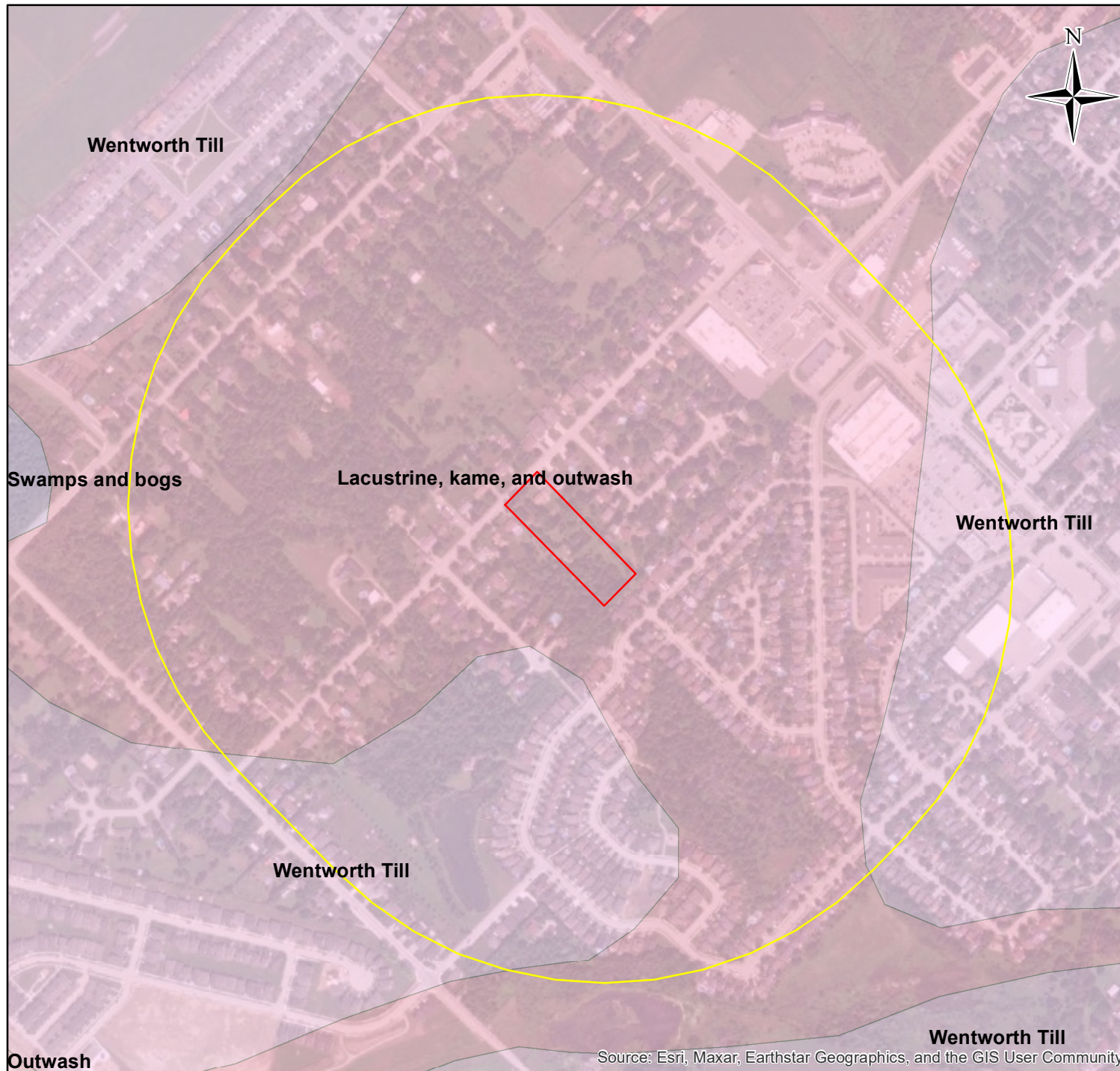
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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Proposed Residential  
Development at  
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Lot 19, Con 15  
Geo. Twp of Nichol



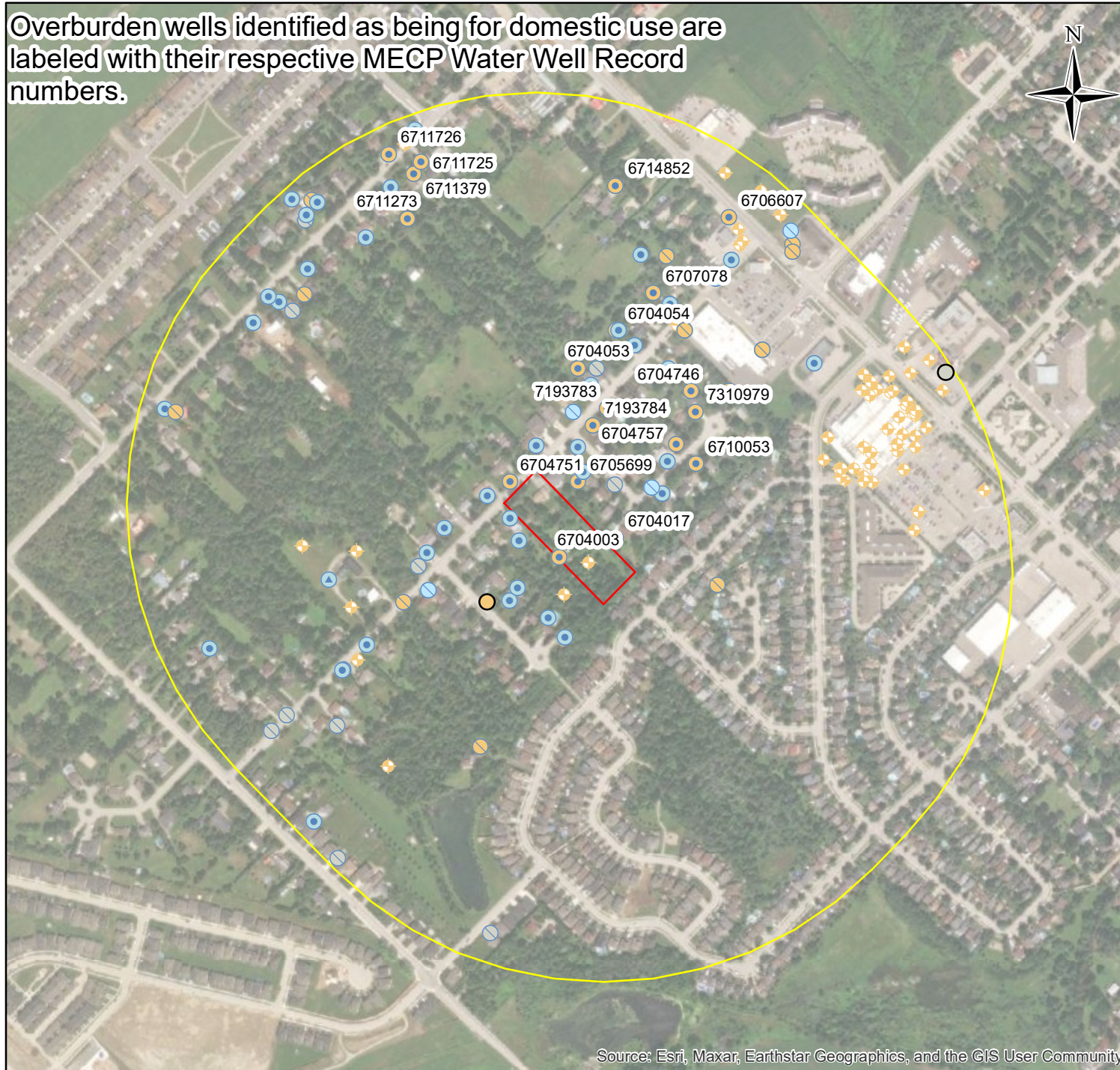
- Site Boundary (approx.)
- Study Area (500m)
- Surficial Geology of Ontario**
- Lacustrine, kame, and outwash
- Outwash
- Swamps and bogs
- Wentworth Till

Scale: 1: 7,500  
June 2024

Figure 4:  
Surficial Geology



Overburden wells identified as being for domestic use are labeled with their respective MECP Water Well Record numbers.



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Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol

**Well Type, Well Use**

- Bedrock, Abandoned
- Bedrock, Domestic
- Bedrock, Livestock
- Overburden, Abandoned
- Overburden, Domestic
- Overburden, Monitoring
- Overburden, Unknown
- Unknown, Abandoned
- Unknown, Unknown
- Site Boundary (approx.)
- Study Area (500m)

Scale: 1: 7,500  
June 2024

**Figure 5:**  
**MECP Water Well Records**

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Hydrogeological Study  
Report

Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol



- Site Boundary (approx.)
- Monitoring Wells
- Surface Water Monitoring Location

Scale: 1: 1,500  
June 2024

Figure 6:  
Site Investigation Layout

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community





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Hydrogeological Study  
Report

Proposed Residential  
Development at  
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Lot 19, Con 15  
Geo. Twp of Nichol



- Site Boundary (approx.)
- Monitoring Wells
- Groundwater Contours

Scale: 1: 1,500  
June 2024

Figure 7:  
Groundwater Contours  
(April 2023)

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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Hydrogeological Study  
Report

Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol



ZOI for Sanitary Sewer Construction Dewatering

ZOI for SWM Pond Construction Dewatering

- Site Boundary (approx.)
- Estimated Zones of Influence
- Sanitary Sewer (Proposed)
- SWM Pond Forebay (Proposed)
- Well Type, Well Use**
- Bedrock, Abandoned
- Bedrock, Domestic
- Overburden, Abandoned
- Overburden, Domestic
- Overburden, Monitoring
- Overburden, Unknown
- Unknown, Abandoned

Scale: 1: 100,000  
June 2024

Figure 8:  
Estimated Zones of Influence  
for Construction Dewatering



Project: 2402265  
Hydrogeological Study  
Report

Proposed Residential  
Development at  
79 Sideroad 19

Lot 19, Con 15  
Geo. Twp of Nichol



- Site Boundary (approx.)
- Well Monitoring Buffer
- Well Type, Well Use**
- Bedrock, Abandoned
- Bedrock, Domestic
- Overburden, Abandoned
- Overburden, Domestic
- Overburden, Monitoring
- Overburden, Unknown
- Unknown, Abandoned

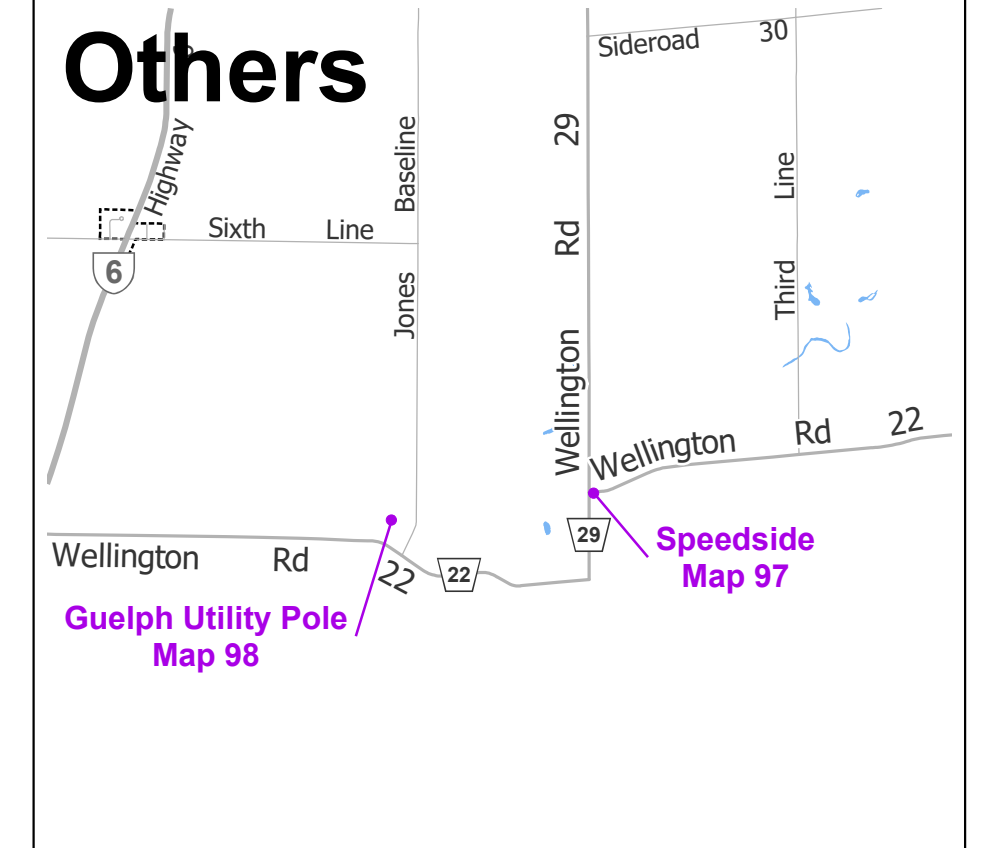
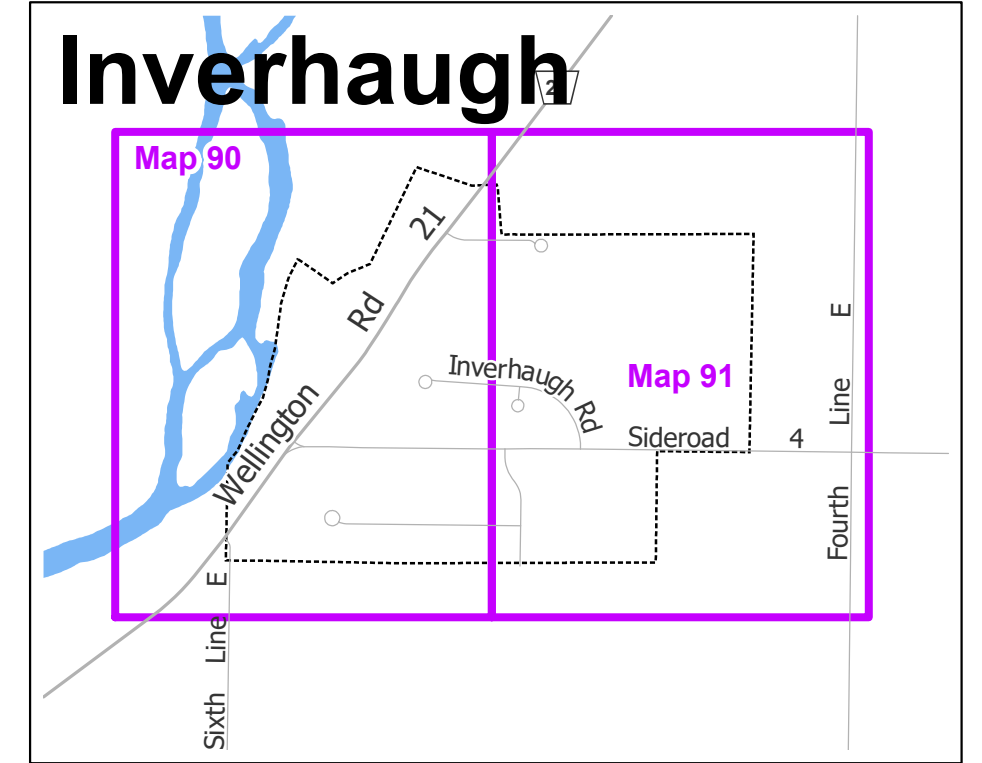
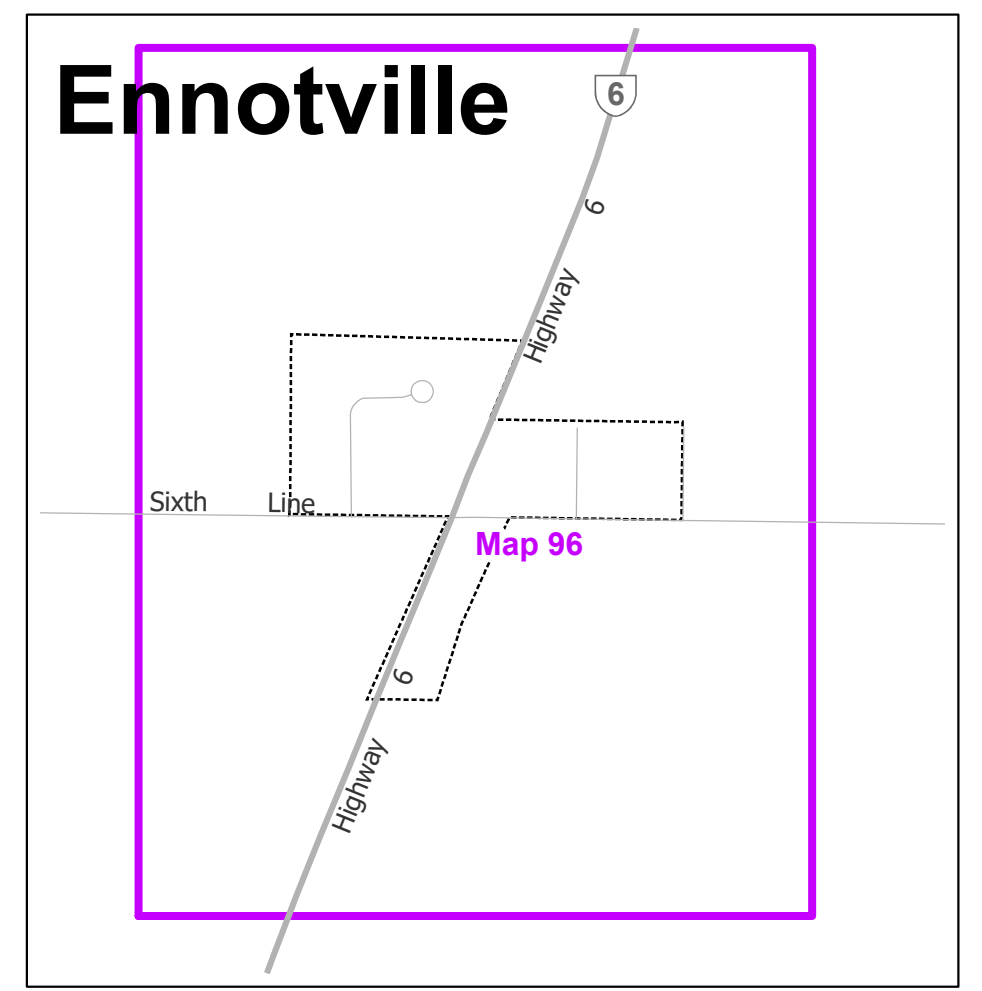
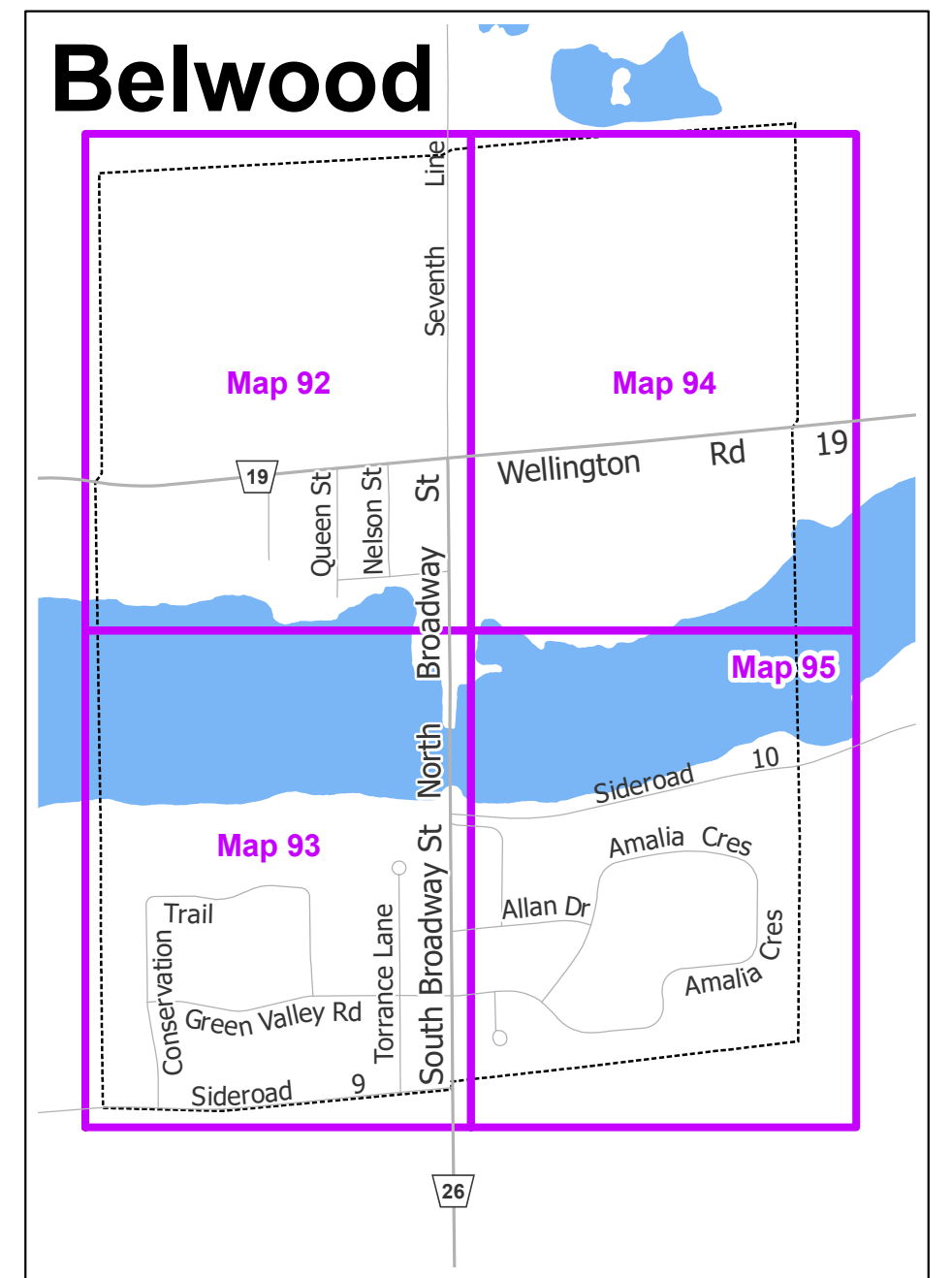
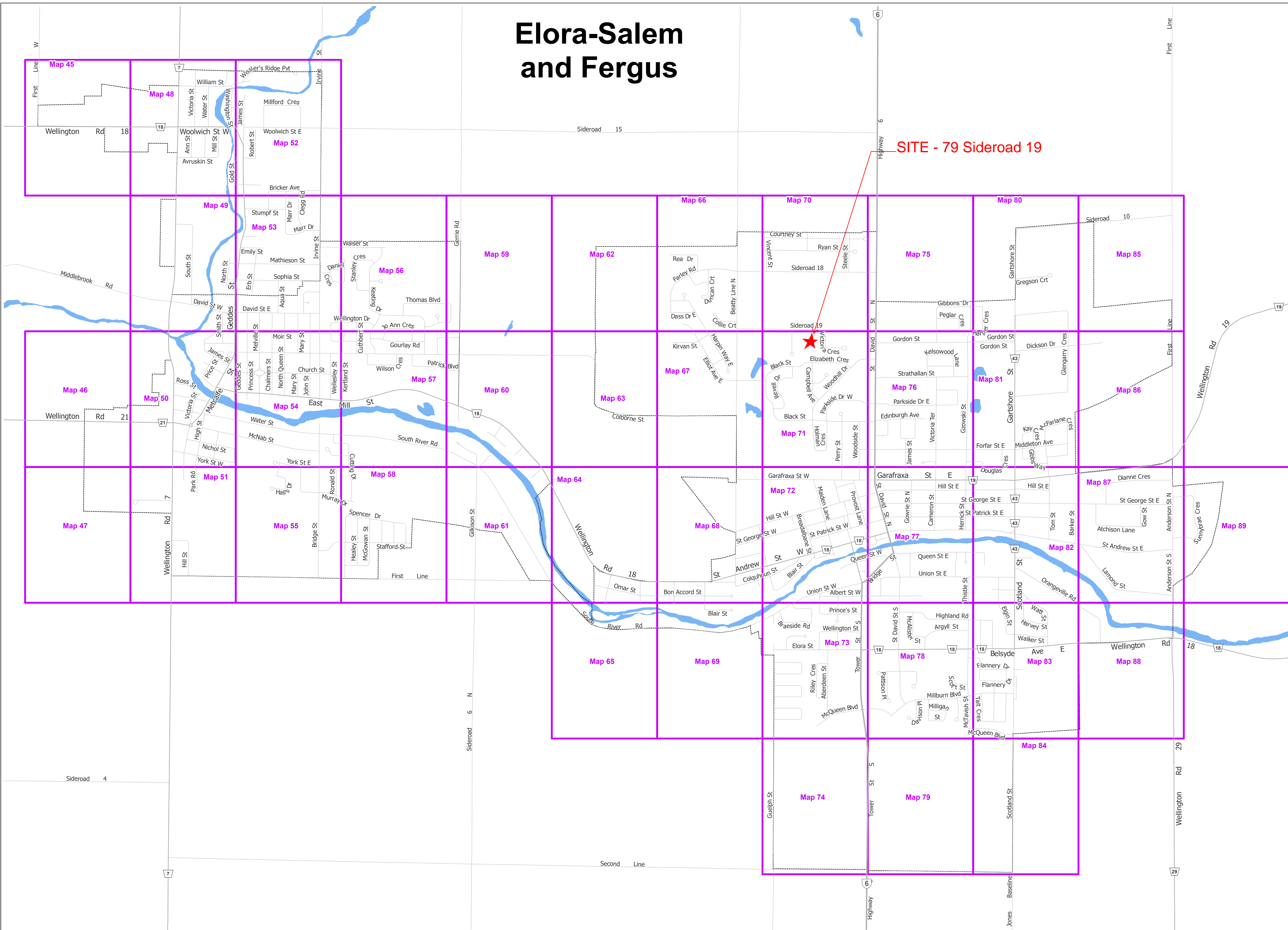
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June 2024

Figure 9:  
Well Monitoring Buffer

# **Appendix A Zoning Maps from Township of Centre Wellington**

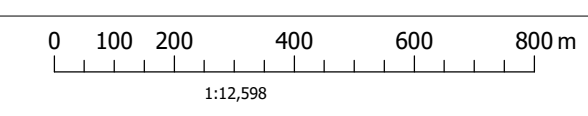
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# Elora-Salem and Fergus

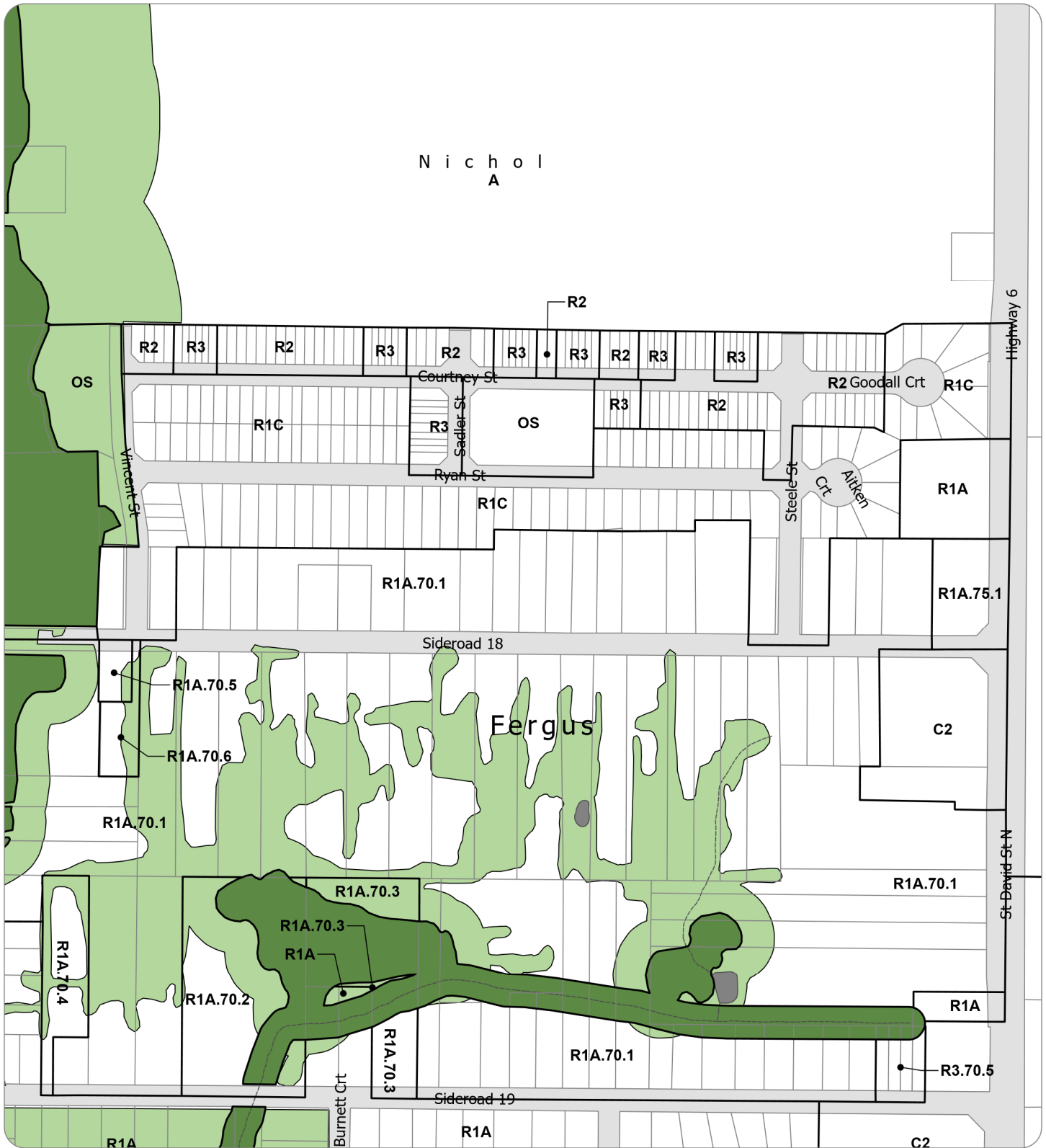


Urban Zoning Map Index

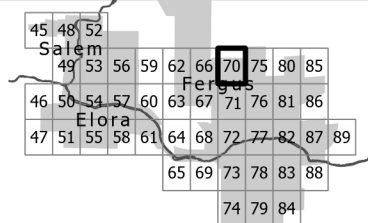
Urban and Hamlet Zoning Map Index



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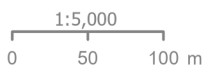


- Zone Boundary
- Environmental Protection
- Environmental Protection Overlay
- Heritage Area Overlay
- Parcel Fabric
- Floodplain
- Flood Fringe
- Waterbody
- Watercourse
- Road



Township of Centre Wellington  
 Zoning By-Law  
 Schedule "A"  
**Map 70**  
 Fergus

Sources: May include data from the Grand River Conservation Authority, County of Wellington, Teranet (2004) and © 2023 of the Queens Printer For Ontario. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The Township of Centre Wellington disclaims all responsibility for the accuracy or completeness of information contained herein. The Township of Centre Wellington assumes no responsibility for errors arising from use of these mapping products. All rights reserved. May not be reproduced without permission. © 2023 The Township of Centre Wellington. Path: O:\DATA\_ENTERPRISE\ZONING\ARPA\Zoning\_ByLaw\_Maps\Zoning\_ByLaw\_Maps.aprx



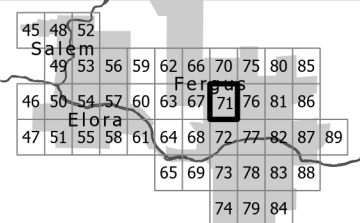
Author: GWowlich  
 Date Saved: 2023-09



**SITE - 79 Sideroad 19**

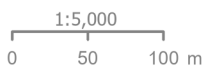


- Zone Boundary
- Environmental Protection
- Environmental Protection Overlay
- Heritage Area Overlay
- Parcel Fabric
- Floodplain
- Flood Fringe
- Waterbody
- Watercourse
- Road



Township of Centre Wellington  
**Zoning By-Law**  
**Schedule "A"**  
**Map 71**  
 Fergus

Sources: May include data from the Grand River Conservation Authority, County of Wellington, Teranet (2004) and © 2023 of the Queens Printer for Ontario. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The Township of Centre Wellington disclaims all responsibility for the accuracy or completeness of information contained herein. The Township of Centre Wellington assumes no responsibility for errors arising from use of these mapping products. All rights reserved. May not be reproduced without permission. © 2023 The Township of Centre Wellington. Path: O:\DATA\_ENTERPRISE\ZONING\ARPA\Zoning\_ByLaw\_Maps\Zoning\_ByLaw\_Maps.aprx



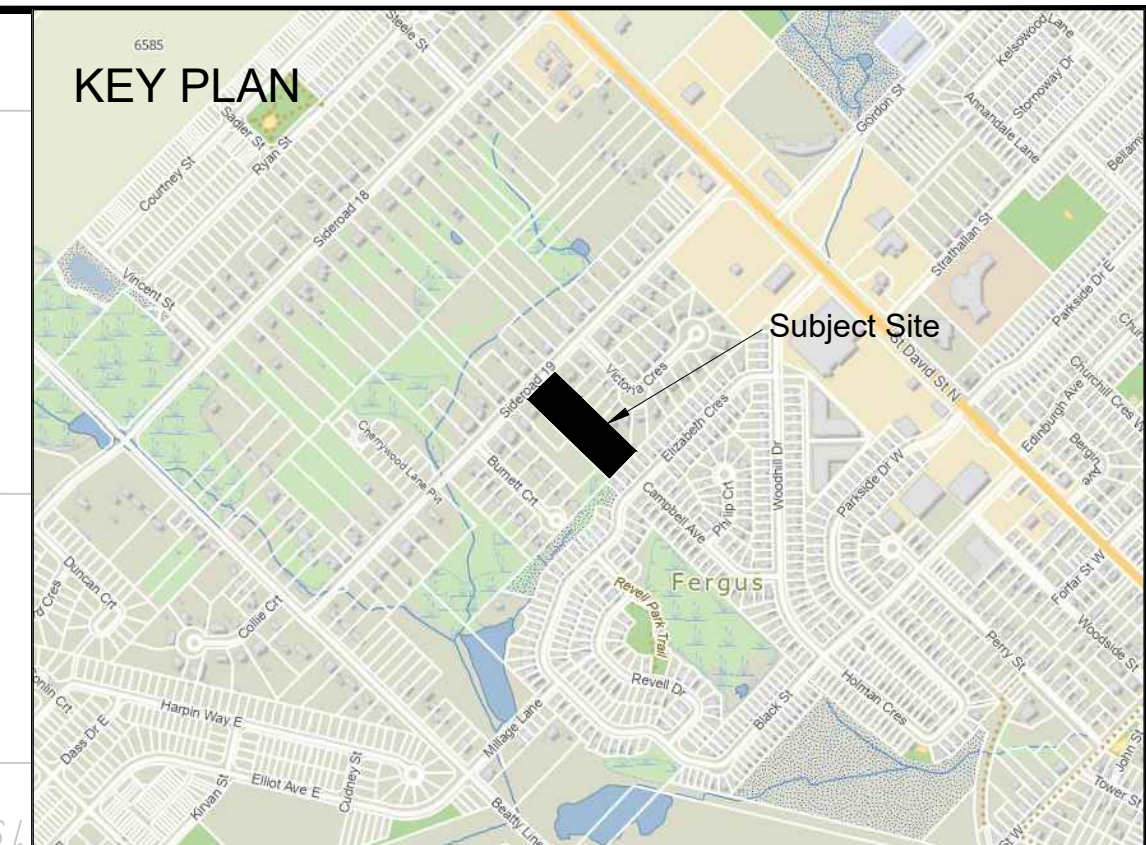
Author: GWowlich  
 Date Saved: 2023-09



## **Appendix B Proposed Site Plan**

---

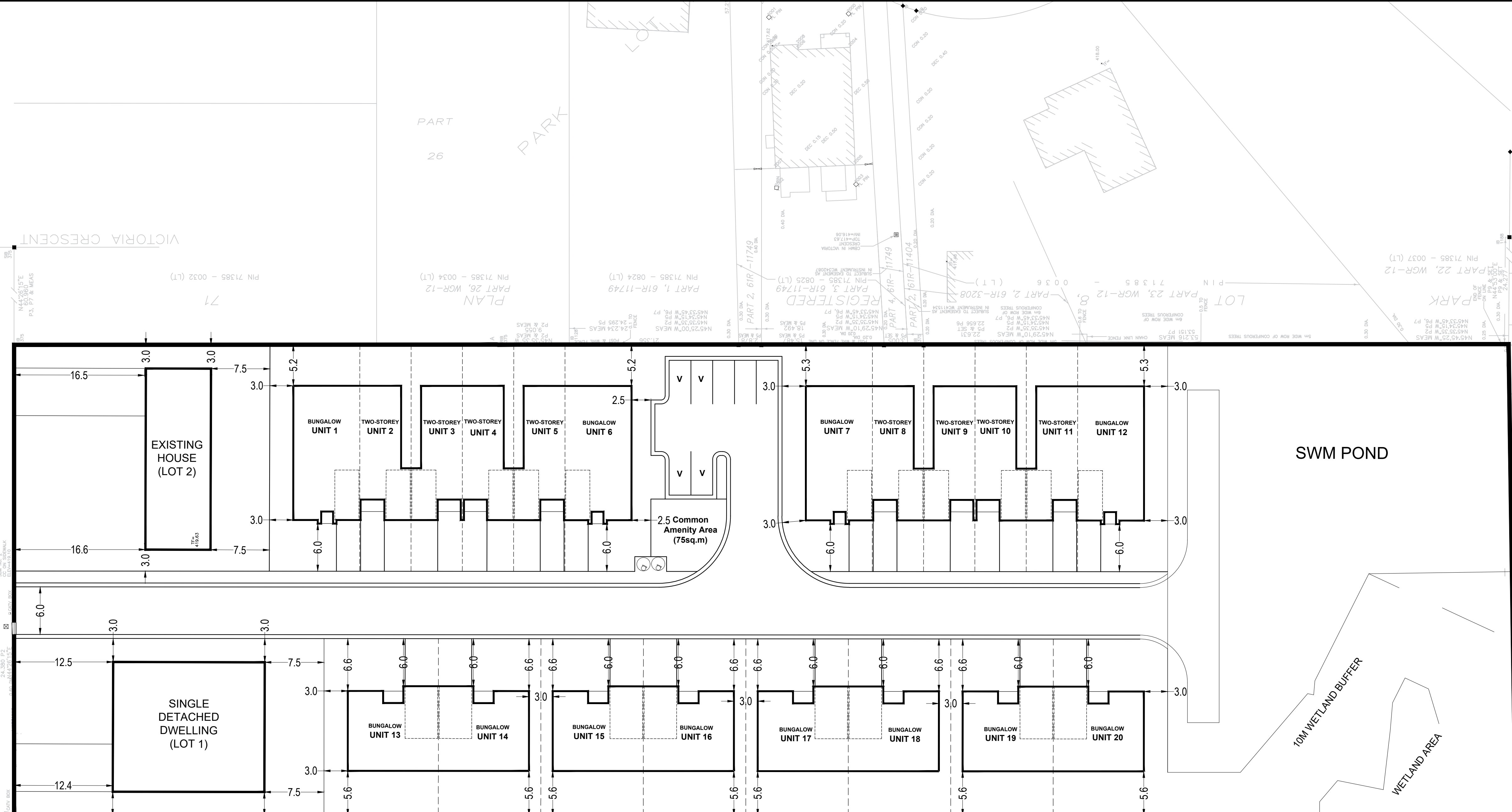




# SITE PLAN

Part of Park Lot 10, Registered Plan 71  
Township of Centre Wellington  
Wellington County

79, Sideroad 19



SPECIAL REGULATION TO PERMIT SINGLE DETACHED DWELLINGS			SPECIAL REGULATION TO PERMIT SEMI DETACHED			SPECIAL REGULATION TO CLUSTER TOWNHOUSES		
Zone: R3-XX			Zone: R3-XX			Zone: R3-XX		
Regulation:	Required	Proposed	Regulation:	Required	Proposed	Regulation:	Required	Proposed
Lot Area, Min.			Lot Area, Min.			Lot Area, Min.	700 sq. m	324.8sq.m
Lot 1		873.1sq.m	Units 13 & 20		321sq.m	End Unit		185.0sq.m
Lot 2		920.6sq.m	Units 14 - 19		288sq.m	Interior Unit		6.4m
Lot Frontage, Min.		22.3m	Lot Frontage, Min.		12.9m	End Unit		6.0m
Front Yard Min.		12.4m	Front Yard Min.		6.0m	Interior Unit		3.0m - Will require Site Specific
Interior Side Yard, Min.		3.0m	Interior Side Yard, Min.		1.5m	Front Yard Min.	6.0m	
Rear Yard, Minimum		7.5m	Rear Yard, Minimum		5.6m	Interior Side Yard, Min. (Uattached)	4.5 m or 7.5 m if there is a habitable room facing on the required yard	5.2m - Only if habitable room faces rear yard
Building Height, Max.		3 Storey's but not greater than 11m	Landscaped OS, Min.		The Front Yard on any Lot, excepting the Driveway shall be landscaped and no parking shall be permitted within this Landscaped Open Space. The width of the driveway shall not exceed 55% of the lot width, up to a maximum driveway width of 7.5 m (24.6 ft).	Rear Yard, Minimum	4.5 m or 7.5 m if there is a habitable room facing on the required yard.	
Landscaped OS, Min.		The Front Yard on any Lot, excepting the Driveway shall be landscaped and no parking shall be permitted within this Landscaped Open Space. The width of the driveway shall not exceed 55% of the lot width, up to a maximum driveway width of 7.5 m (24.6 ft).	Garage/Driveway Width Restriction		The outside walls of an attached garage shall not exceed 55% of the lot width; and the driveway leading to the garage can be no more than the width of the exterior dimensions of the garage	Max. Number of Attached Dwelling Units in a Row	8 Units	6 Units
Garage/Driveway Width Restrictions		The outside walls of an attached garage shall not exceed 55% of the lot width; and the driveway leading to the garage can be no more than the width of the exterior dimensions of the garage	Parking Spaces, Minimum Regular Spaces	1sp / Unit	16 Spaces	Building Max Height	11m	9m
Parking Spaces Min.	1 Sp/ Unit	8 Spaces	Regular Spaces		8 Spaces	Landscaped OS, Min.	40%	46.9%
Regular Spaces		4 Spaces	Garage Spaces		8 Spaces	Private Amenity Area	20 sq.m with a minimum depth of 4.5 m and depth of 4.5 m (in the side or rear yard)	46.6sq.m (min.)
Garage Spaces		4 Spaces				Common Amenity Area	5sq.m of amenity area per dwelling (75sq.m)	
						Parking Spaces, Minimum	1 space per dwelling unit plus 0.5 spaces per unit for the first 20 units. A minimum of 50% of the additional parking spaces shall be devoted exclusively to visitor parking. =15+8	1.5 spaces per dwelling = 23 spaces (4 Visitor Parking Spaces) Total: 23 Spaces Provided
								<b>23 required spaces with 4 dedicated visitor spaces</b>



REVISIONS
January 25, 2024
August 9, 2024

## **Appendix C Select MECP Water Well Records**

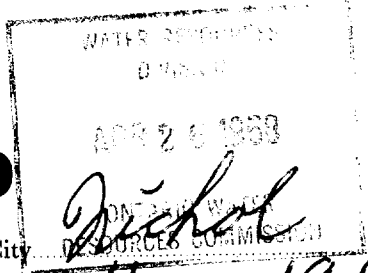
---

48 P/9W

L17 54840 Con XV  
15 483935 CODED  
5B 1365  
423



6703120-  
3 9



The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District Wellington Township, Village, Town or City Richard  
Con 15 XV pr. Lot 19 Date completed 23 4 1968  
(day month year)  
Address Box 880 FERGUS ONT.

### Casing and Screen Record

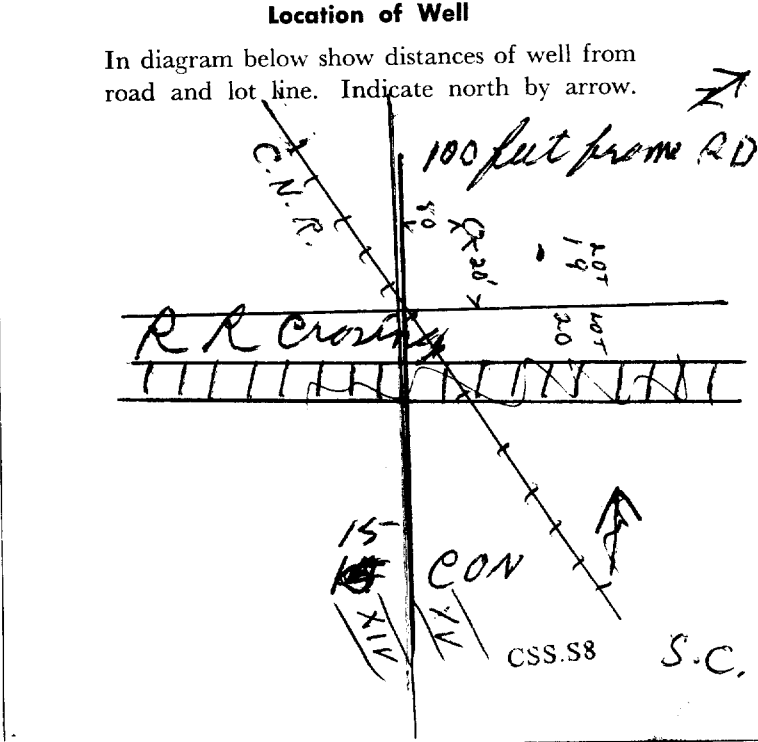
Inside diameter of casing 5 1/4  
Total length of casing 71 feet  
Type of screen -  
Length of screen -  
Depth to top of screen 5 1/4"  
Diameter of finished hole 5 1/4"

### Pumping Test

Static level 27 feet  
Test-pumping rate 15 G.P.M.  
Pumping level 40 feet  
Duration of test pumping 3 1/2 Hours  
Water clear or cloudy at end of test Clear  
Recommended pumping rate 15 G.P.M.  
with pump setting of 40 feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>Stoney Clay</u>	<u>0</u>	<u>5-6</u>	<u>15-5-</u>	<u>fresh</u>
<u>gray lime Stone</u>	<u>5-6</u>	<u>15-5-</u>		

For what purpose(s) is the water to be used? Domestic  
Is well on upland, in valley, or on hillside? upland  
Drilling or Boring Firm JOHN CUDNEY  
Address SALEM ONT  
Licence Number 2934  
Name of Driller or Borer same  
Address same  
Date April 23 1968  
John Cudney  
(Signature of Licensed Drilling or Boring Contractor)





# The Ontario Water Resources Commission Act WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED  
2. CHECK  CORRECT BOX WHERE APPLICABLE

11

6703437

MUNICIP. 67009

CON. 30N

15

COUNTY OR DISTRICT: **WELLINGTON** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **NICHOL** CON., BLOCK, TRACT, SURVEY, ETC.: **15** LOT: **25-27 019**

DATE COMPLETED: **15** DAY, **07** MO., **69** YR.

RC. **39670** ELEVATION **4** **1375** RC. **5** BASIN CODE **23**

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			PREVIOUSLY DUG	0	16
	SILT			16	80
		LIMESTONE		80	126

31 0016 23 0080 06 0126 15

32

#### 41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER			
0126	<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	
			FROM	TO
04	<input checked="" type="checkbox"/> STEEL	188	0	84
17-18	<input type="checkbox"/> GALVANIZED			0084
24-25	<input type="checkbox"/> GALVANIZED			84

#### SCREEN

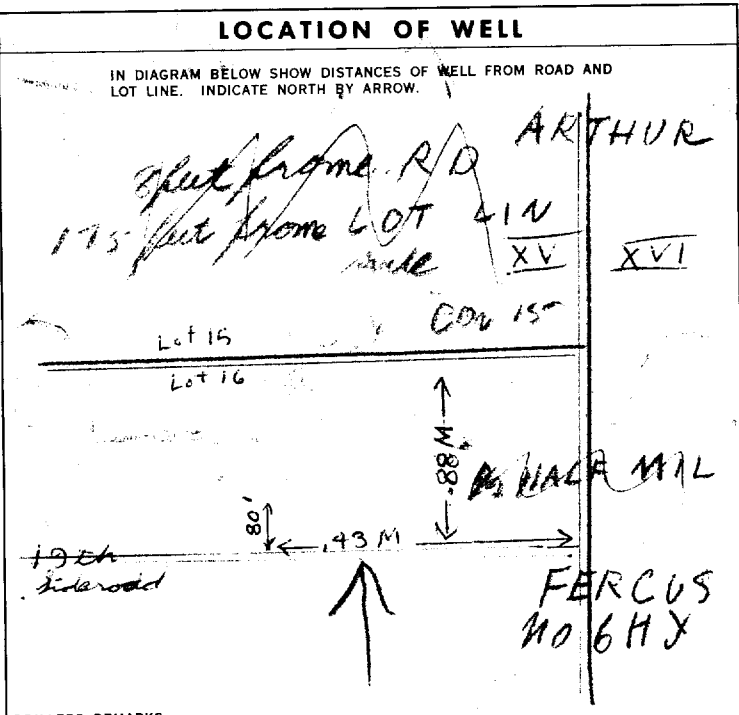
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

#### 61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	
18-21	
26-29	

#### 71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
<input checked="" type="checkbox"/> PUMP		
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
024	040	15 MINUTES: 035, 30 MINUTES: 040, 45 MINUTES: 040, 60 MINUTES: 040
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	60	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	060	0010



#### FINAL STATUS OF WELL

WATER SUPPLY

#### WATER USE

DOMESTIC

#### METHOD OF DRILLING

CABLE TOOL

#### CONTRACTOR

NAME OF WELL CONTRACTOR: **JOHN CUONEY** LICENCE NUMBER: **3412**

ADDRESS: **SALEM, ONT**

NAME OF DRILLER OR BORER: \_\_\_\_\_ LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: *John Cuoney* SUBMISSION DATE: DAY **13** MO. **11** YR. **69**

#### OFFICE USE ONLY

DATA SOURCE: **T** CONTRACTOR: **1617** DATE RECEIVED: **2708 69**

DATE OF INSPECTION: **1077/70** INSPECTOR: **L/P**

REMARKS: **ESS.00**



# WATER WELL RECORD

40 P/gw

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

11

6704003

MUNICIPALITY 67009

CON. C. 4N

15

COUNTY OR DISTRICT WELLINGTON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Nichol

CON., BLOCK, TRACT, SURVEY, ETC. XV

LOT 277

DATE COMPLETED

DAY 31 MO. Aug YR. 71

39780

4

ELEVATION 1375

5

BASIN CODE 23

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			Brown clay	0	10
			course sand	10	18

31	0010605	001810
32		

### 41 WATER RECORD

WATER FOUND - FEET	KIND OF WATER
10-13	<input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR <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
10-11	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input checked="" type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	2 1/2	0	13-16
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH

MATERIAL AND TYPE: \_\_\_\_\_

DEPTH TO TOP OF SCREEN: \_\_\_\_\_ FEET

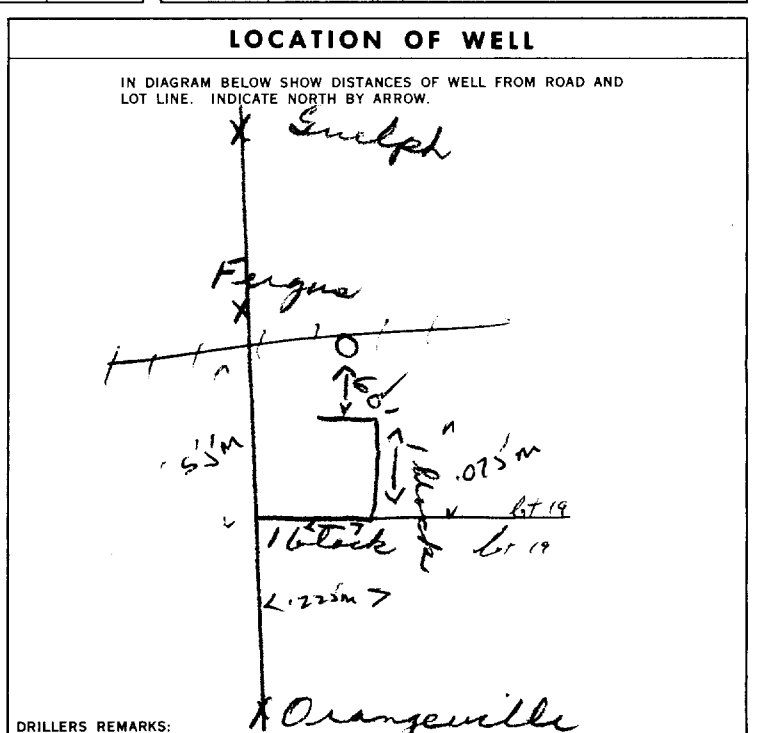
### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD	1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	PUMPING RATE	0010 GPM.	DURATION OF PUMPING	02 HOURS 00 MINS.
STATIC LEVEL	010 FEET	WATER LEVEL END OF PUMPING	010 FEET	WATER LEVELS DURING	1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
IF FLOWING, GIVE RATE		PUMP INTAKE SET AT		WATER AT END OF TEST	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING	016 FEET	RECOMMENDED PUMPING RATE	0010 GPM.

50-53 020.0 GPM./FT. SPECIFIC CAPACITY



### FINAL STATUS OF WELL

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

### WATER USE

55-56  DOMESTIC 5  COMMERCIAL  
 2  STOCK 6  MUNICIPAL  
 3  IRRIGATION 7  PUBLIC SUPPLY  
 4  INDUSTRIAL 8  COOLING OR AIR CONDITIONING  
 OTHER 9  NOT USED

### METHOD OF DRILLING

57 1  CABLE TOOL 6  ROOING  
 2  ROTARY (CONVENTIONAL) 7  DIAMOND  
 3  ROTARY (REVERSE) 8  JETTING  
 4  ROTARY (AIR) 9  DRIVING  
 5  AIR PERCUSSION

### CONTRACTOR

NAME OF WELL CONTRACTOR: Lone Star Well Digging  
 LICENCE NUMBER: 3413  
 ADDRESS: 176 Strachan Rd, Kitchener  
 NAME OF DRILLER OR BORER: J. Moore  
 LICENCE NUMBER: 3413  
 SIGNATURE OF CONTRACTOR: J. Moore  
 SUBMISSION DATE: DAY 31 MO. Aug YR. 71

### OFFICE USE ONLY

DATA SOURCE: 1  
 CONTRACTOR: 3413  
 DATE RECEIVED: 080971  
 DATE OF INSPECTION: \_\_\_\_\_  
 INSPECTOR: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 P: \_\_\_\_\_  
 WI: \_\_\_\_\_



# WATER WELL RECORD

20P/gw

Water management in Ontario

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

11

6704017

MUNICIP. 67009

CON. CASH

15

COUNTY OR DISTRICT  
H. Hamilton

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE  
Nichol

CON., BLOCK, TRACT, SURVEY, ETC.  
XV

LOT 25-27  
2819

DATE COMPLETED  
DAY 22 MO 09 YR 71

39725 RC 4 ELEVATION 1375 RC 5 BASIN CODE 23

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			Brown clay	0	10
			Coarse sand	10	18

31 0010605 0018 10  
32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER			
040	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<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	
			FROM	TO
30	<input checked="" type="checkbox"/> STEEL	2 1/2	0	0018
30	<input checked="" type="checkbox"/> GALVANIZED			
	<input checked="" type="checkbox"/> CONCRETE			
	<input checked="" type="checkbox"/> OPEN HOLE			

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH

MATERIAL AND TYPE: \_\_\_\_\_  
DEPTH TO TOP OF SCREEN: \_\_\_\_\_

**61 PLUGGING & SEALING RECORD**

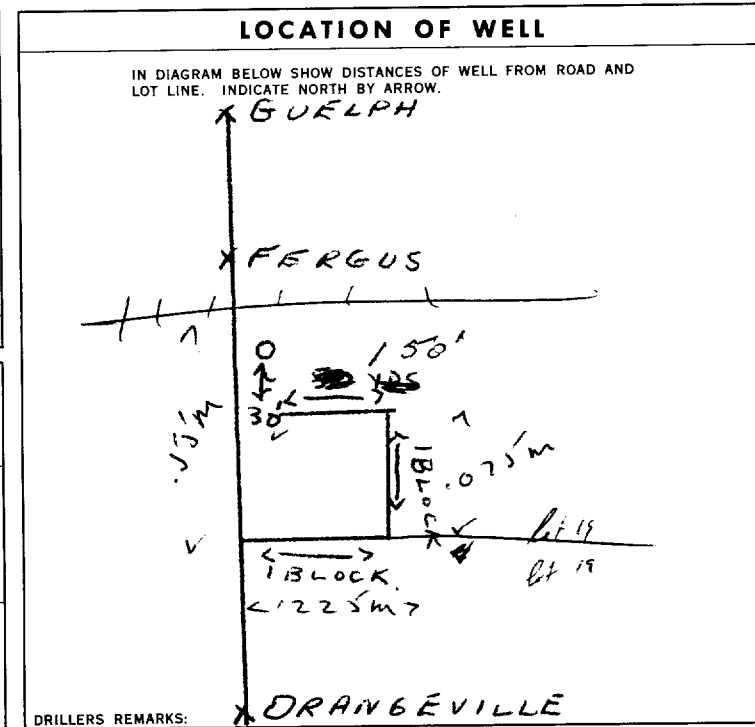
DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	
18-21	
26-29	

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	0010	02 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
010 FEET	010 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		010 FEET	010 FEET	010 FEET	010 FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP  
RECOMMENDED PUMP SETTING: 016 FEET  
RECOMMENDED PUMPING RATE: 0010 GPM.



**FINAL STATUS OF WELL**

WATER SUPPLY  
 OBSERVATION WELL  
 TEST HOLE  
 RECHARGE WELL

**WATER USE**

DOMESTIC  
 STOCK  
 IRRIGATION  
 INDUSTRIAL  
 OTHER

**METHOD OF DRILLING**

CABLE TOOL  
 ROTARY (CONVENTIONAL)  
 ROTARY (REVERSE)  
 ROTARY (AIR)  
 AIR PERCUSSION

BORING  
 DIAMOND  
 JETTING  
 DRIVING

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Lone Star Well Drilling  
ADDRESS: 176 Shearburg Rd Kitchener  
NAME OF DRILLER OR BORER: J. Moore  
SIGNATURE OF CONTRACTOR: J. Moore  
LICENCE NUMBER: 3413  
SUBMISSION DATE: DAY 22 MO 9 YR 71

**OFFICE USE ONLY**

DATA SOURCE: 1  
CONTRACTOR: 3413  
DATE RECEIVED: 240971  
DATE OF INSPECTION: \_\_\_\_\_  
INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
P: \_\_\_\_\_  
WI: \_\_\_\_\_



# The Ontario Water Resources Commission Act WATER WELL RECORD

40 P/12

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

11  
1 2

6704053

MUNICIP. 167009 CON  
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

COUNTY OR DISTRICT WELLSINGTON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE NICHOL BLOCK, TRACT, SURVEY, ETC. 15 LOT PART 019

DATE COMPLETED DAY 22 MO. 15 YR 71

RC 39950 ELEVATION 1375 RC 5 BASIN CODE 231

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FILL			0	1
"	CLAY		PACKED	1	10
YELLOW	GRAVEL	SAND	DENSE	10	12
BLACK	COARSE SAND	GRAVEL	LOOSE	12	17
GREY	CLAY	MUCK		17	

31 0001601 0010005 001251128 001781011

**41 WATER RECORD**

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

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
30	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input checked="" type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	2 1/2	0 0014
32	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	1/2	16 to 0014 0017
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH

MATERIAL AND TYPE: SPRINKLER TUBE

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33

**71 PUMPING TEST**

PUMPING TEST METHOD:  PUMP  BAILER

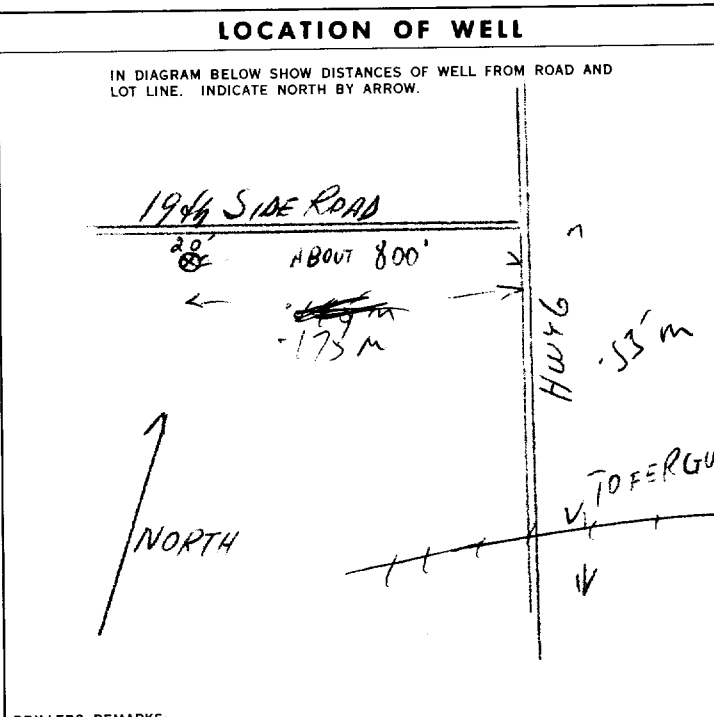
PUMPING RATE: 0012 GPM DURATION OF PUMPING: 02 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
010 FEET	017 FEET	15 MINUTES: 015 FEET 30 MINUTES: 015 FEET 45 MINUTES: 015 FEET 60 MINUTES: 015 FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 015 FEET

RECOMMENDED PUMPING RATE: 0005 GPM.



**FINAL STATUS OF WELL**

WATER SUPPLY  ABANDONED, INSUFFICIENT SUPPLY  
 OBSERVATION WELL  ABANDONED, POOR QUALITY  
 TEST HOLE  UNFINISHED  
 RECHARGE WELL

**WATER USE**

DOMESTIC  COMMERCIAL  
 STOCK  MUNICIPAL  
 IRRIGATION  PUBLIC SUPPLY  
 INDUSTRIAL  COOLING OR AIR CONDITIONING  
 OTHER  NOT USED

**METHOD OF DRILLING**

CABLE TOOL  BORING  
 ROTARY (CONVENTIONAL)  DIAMOND  
 ROTARY (REVERSE)  JETTING  
 ROTARY (AIR)  DRIVING  
 AIR PERCUSSION

**CONTRACTOR**

NAME OF WELL CONTRACTOR: MILTON WELL BORING LICENCE NUMBER: 3637

ADDRESS: 6751 WALKERS LINE RR#2 MILTON

NAME OF DRILLER OR BORER: MARCEL PELTIER LICENCE NUMBER: 3637

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: 28 JAN 71

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 3637 DATE RECEIVED: 211071

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.S8 P WI



# WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

11  
1 2

6704054

MUNICIPALITY 167009

SPN Building Lot 15

COUNTY OR DISTRICT <b>WELLINGTON</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>NICHOL</b>	CONR. BLOCK, TRACT, SURVEY, ETC. <b>15</b>	LOT <b>009</b>
---	---	---	-------------------

DATE COMPLETED DAY <b>25</b> MO. <b>JAN</b> YR <b>71</b>	ADDRESS <b>Box 383 ERIN</b>
---	--------------------------------

RC <b>40000</b>	RC <b>4</b>	ELEVATION <b>1375</b>	RC <b>5</b>	BASIN CODE <b>23</b>
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LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FILL			0	1
"	CLAY		PACKED	1	9
BLACK	COARSE SAND	GRAVEL & STONES	LOOSE	9	13
BLACK	" "	GRAVEL	"	13	16 1/2

31	0001601	0009605	0013810/11/12	0017810/11
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**41 WATER RECORD**

WATER FOUND - FEET	KIND OF WATER
15-18	<input checked="" 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	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input checked="" type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		0014
30	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	2 1/2	0
17-18	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	16 ga	0014
32	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		0017
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		27-30

**SCREEN**

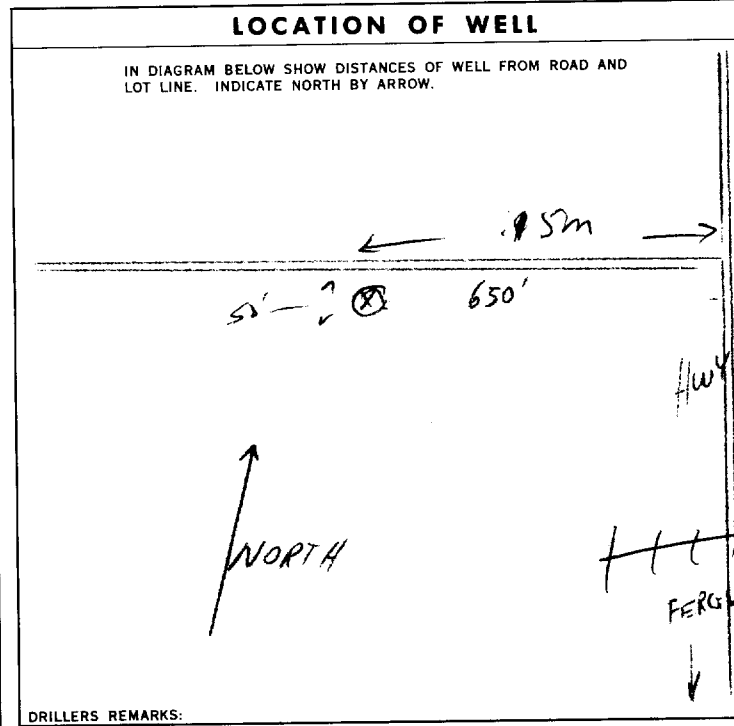
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
GRAVEL PACK		FEET

**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 <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	PUMPING RATE <b>0010</b> GPM.	DURATION OF PUMPING 15-16 HOURS <b>02</b> 17-18 MINS. <b>00</b>
STATIC LEVEL <b>009</b> FEET	WATER LEVEL END OF PUMPING <b>0017</b> FEET	WATER LEVELS DURING 15 MINUTES <b>0017</b> FEET 30 MINUTES <b>0017</b> FEET 45 MINUTES <b>0017</b> FEET 60 MINUTES <b>0017</b> FEET
IF FLOWING, GIVE RATE GPM.	PUMP INTAKE SET AT <b>15</b> FEET	WATER AT END OF TEST <input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <b>015</b> FEET	RECOMMENDED PUMPING RATE <b>0005</b> GPM.



**FINAL STATUS OF WELL**

WATER SUPPLY  
 OBSERVATION WELL  
 TEST HOLE  
 RECHARGE WELL

**WATER USE**

DOMESTIC  
 STOCK  
 IRRIGATION  
 INDUSTRIAL  
 OTHER

**METHOD OF DRILLING**

CABLE TOOL  
 ROTARY (CONVENTIONAL)  
 ROTARY (REVERSE)  
 ROTARY (AIR)  
 AIR PERCUSSION

BORING  
 DIAMOND  
 JETTING  
 DRIVING

**CONTRACTOR**

NAME OF WELL CONTRACTOR  
**MILTON WELL BORING**

LICENCE NUMBER  
**3637**

ADDRESS  
**6751 WALKERS LINE #2 MILTON**

NAME OF DRILLER OR BORER  
**MARCEL PELTIER**

LICENCE NUMBER  
**3637**

SIGNATURE OF CONTRACTOR  
*[Signature]*

SUBMISSION DATE  
DAY **28** MO. **JAN** YR **71**

**OFFICE USE ONLY**

DATA SOURCE  
**1**

CONTRACTOR  
**3637**

DATE RECEIVED  
**211071**

DATE OF INSPECTION

INSPECTOR  
**211071**

REMARKS:

CSS.S8

P *[Signature]*

WI





# WATER WELL RECORD

40P/9w

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

6704746-1

MUNICIP. 167009

CON. 15

LOT 25-27

COUNTY OR DISTRICT: **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON., BLOCK, TRACT, SURVEY, ETC: **Plan 71** LOT: **25-27**

OWNER (SURNAME FIRST): **Belmont Building Corporation** ADDRESS: **239 Queen Street East Hampton, Ontario** DATE COMPLETED: DAY **31** MO **July** YR **73**

ZONE: **17** EASTING: **548900** NORTHING: **4839920** RC: **14** ELEVATION: **1375** RC: **15** BASIN CODE: **23**

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	7
Brown	Sand & Gravel			7	9
Grey	Clay & Stones			9	23

31 0007605 0009028111 002320512

32

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0-13	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	
			FROM	TO
30	1 <input checked="" type="checkbox"/> STEEL 2 <input checked="" type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	16g	0	23
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			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			27-30

#### SCREEN

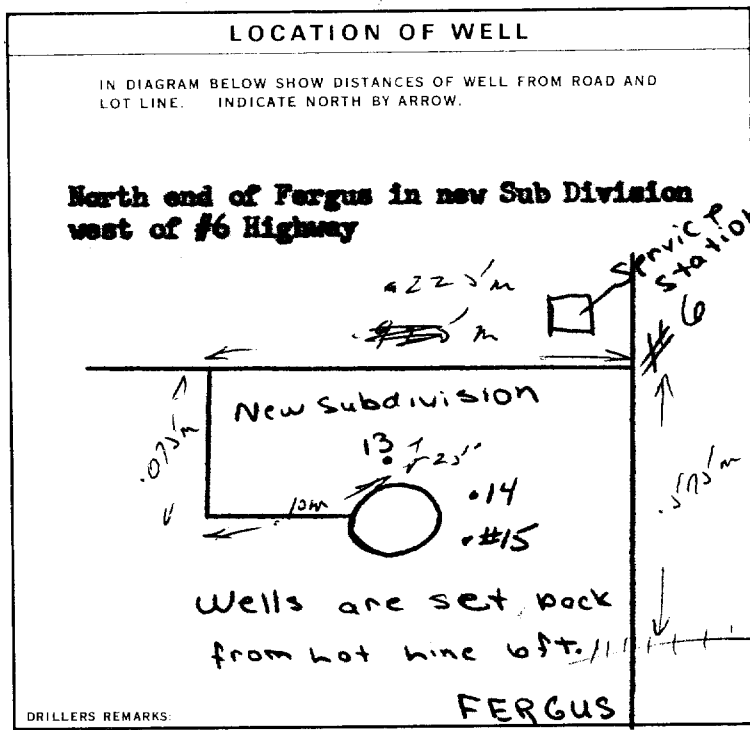
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
3' Gravel Pipe		

#### 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	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0006 GPM	01 15-16 HOURS 00 MINS
STATIC LEVEL: 007 FEET	WATER LEVEL END OF PUMPING: 815 FEET	WATER LEVELS DURING PUMPING:
19-21 FEET	22-24 FEET	15 MINUTES: 26-28 FEET
29-31 FEET	32-34 FEET	30 MINUTES: 29-31 FEET
35-37 FEET		45 MINUTES: 32-34 FEET
35-37 FEET		60 MINUTES: 35-37 FEET
IF FLOWING GIVE RATE: 15 GPM	PUMP INTAKE SET AT: 15 FEET	WATER AT END OF TEST: 1 CLEAR 2 CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 017 FEET	RECOMMENDED PUMPING RATE: 0005 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  OTHER

#### METHOD OF DRILLING

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: **Hideo Well Drilling and Digging Ltd.** LICENCE NUMBER: **2519**  
ADDRESS: **P.O. Box 730 Elmira Ontario**  
NAME OF DRILLER: **H.P. Watson** LICENCE NUMBER:  
SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **24** MO **Aug** YR **73**

#### OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **2519** DATE RECEIVED: **290873**  
DATE OF INSPECTION: **01/174** INSPECTOR:  
REMARKS: **CSS.S8**



# WATER WELL RECORD

40 P/9W

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

6704747-11  
MUNICIPALITY: 67009  
CON. NO.: C/W  
LOT: 15  
1979

COUNTY OR DISTRICT: **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON. BLOCK, TRACT, SURVEY, ETC.: **Plan 71 XV** LOT: 25-27

OWNER (SURNAME FIRST): **Bldg Corp** ADDRESS: **239 Queen Street East, Brampton, Ontario** DATE COMPLETED: DAY **01** MO. **Aug** YR. **73**

ZONE: **1.7** EASTING: **548950** NORTHING: **4839920** RC: **14** ELEVATION: **157.5** RC: **15** BASIN CODE: **23**

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	2
Grey	Sand			2	6
Brown	Sand			6	12
Grey	Clay & Boulders			12	20

31: 1000216105 0006228 0012628 002029513

32: [Scale]

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14	
2	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	19	
2	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	24	
2	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	29	
2	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	34-80	
2	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
30"	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	16g	0	10
24"	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	16g	9	19
24-25	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			27-30

#### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 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	80

#### 71 PUMPING TEST

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0000 GPM

DURATION OF PUMPING: 15-16 HOURS 17-18 MINS

STATIC LEVEL: 006 FEET

WATER LEVEL END OF PUMPING: 219 FEET

WATER LEVELS DURING:

15 MINUTES: 26-28 FEET	30 MINUTES: 29-31 FEET	45 MINUTES: 32-34 FEET	60 MINUTES: 35-37 FEET
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IF FLOWING, GIVE RATE: 015 GPM

PUMP INTAKE SET AT: 015 FEET

WATER AT END OF TEST: 1  CLEAR 2  CLOUDY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 015 FEET

RECOMMENDED PUMPING RATE: 0005 GPM

#### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

DRILLERS REMARKS:

#### 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  
 OTHER 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: **Hedco Well Drilling and Digging Ltd.** LICENCE NUMBER: **2519**

ADDRESS: **P.O. Box 730 Elmira Ontario.**

NAME OF DRILLER OR BORER: **H.P. Watson** LICENCE NUMBER: **H.P. Watson**

SIGNATURE OF CONTRACTOR: **H.P. Watson** SUBMISSION DATE: **24 MO. Aug YR. 73**

#### OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **2519** DATE RECEIVED: **290873**

DATE OF INSPECTION: **10/1/74** INSPECTOR: **7**

REMARKS: **CSS.S8**



Ontario

MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act

# WATER WELL RECORD

40P/9w

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

11

6704748

MUNICIPALITY 67009

CON. CDN

LOT 25-27 1/5

COUNTY OR DISTRICT: **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON., BLOCK, TRACT, SURVEY, ETC.: **Plan 71 XV** LOT: **25-27 1/5**

OWNER (SURNAME FIRST): **Bldg Corp** ADDRESS: **239 Queen Street East, Brampton, Ontario** DATE COMPLETED: DAY **07** MO **Aug** YR **73**

Belmont Building Corporation

U ZONE EASTING NORTHING RC ELEVATION RC BASIN CODE II III IV

21 1.7 5489.50 48399.20 19 137.5 15 2.3

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Top Soil			0	2
Grey	Sand			2	6
Brown	Sand			6	12
Grey	Clay & Stones			12	22

31 0002602 0006218 0012628 002220512

32

**41 WATER RECORD**

WATER FOUND AT - 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	
			FROM	TO
30	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	16	0	0022
17-18	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			20-23
24-25	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 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**

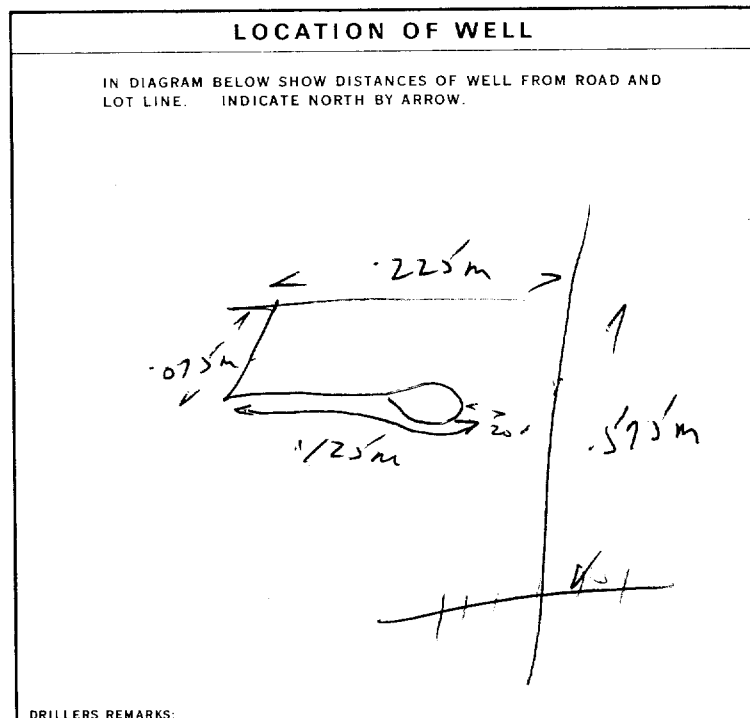
PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0006 GPM DURATION OF PUMPING: 00 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
006 FEET	020 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		26-26	020	32-34	35-37

IF FLOWING, GIVE RATE: \_\_\_\_\_ PUMP INTAKE SET AT: 20 FEET WATER AT END OF TEST: 42 FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP RECOMMENDED PUMP SETTING: 018 FEET RECOMMENDED PUMPING RATE: 0005 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  
 OTHER 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: **Hadoo Well Drilling and Digging Ltd** LICENCE NUMBER: **2519**

ADDRESS: **P.O. Box 730 Elmira Ontario**

NAME OF DRILLER OR BORER: **H.P. Watson** LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY **24** MO **Aug** YR **73**

**OFFICE USE ONLY**

DATA SOURCE: **1** CONTRACTOR: **2519** DATE RECEIVED: **290873**

DATE OF INSPECTION: **10/1/79** INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.S8



Ontario

# WATER WELL RECORD

40 P/9W

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

11

6704751-

MUNICIP. 167009

CON. C/DN

115

COUNTY OR DISTRICT <b>Wellington</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>Nichol</b>	CON., BLOCK, TRACT, SURVEY, ETC <b>Plan 71</b>	LOT <b>21</b>
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OWNER (SURNAME FIRST) <b>Bldg Corp</b>	ADDRESS <b>239 Queen Street East Brampton, Ontario.</b>	DATE COMPLETED DAY <b>15</b> MO. <b>Aug</b> YR. <b>73</b>
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ZONE <b>11.7</b>	EASTING <b>1548660</b>	NORTHING <b>4839890</b>	RC <b>14</b>	ELEVATION <b>113.75</b>	RC <b>30</b>	BASIN CODE <b>23</b>
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### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<b>Brown</b>	<b>Clay</b>			<b>0</b>	<b>4</b>
<b>Grey</b>	<b>Sand &amp; Gravel</b>			<b>4</b>	<b>16</b>
<b>Grey</b>	<b>Clay</b>			<b>16</b>	<b>21</b>

31	32	33	34	35	36	37	38	39	40
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#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <b>0006</b>	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	
10-11	1 <input type="checkbox"/> STEEL 2 <input checked="" type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<b>16g</b>	<b>0</b>	<b>21</b>
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			

#### SCREEN

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

#### 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 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	PUMPING RATE <b>0006</b> GPM	DURATION OF PUMPING 15-16 HOURS <b>00</b> 17-18 MINS
STATIC LEVEL <b>006</b> FEET	WATER LEVEL END OF PUMPING <b>020</b> FEET	WATER LEVELS DURING 15 MINUTES 26-28 FEET 30 MINUTES 29-31 FEET 45 MINUTES 32-34 FEET 60 MINUTES 35-37 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT GPM <b>16</b> FEET	WATER AT END OF TEST 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <b>0.16</b> FEET	RECOMMENDED PUMPING RATE <b>0005</b> GPM

#### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

**Lot #21 in sub division. 1st house on right as you enter main road into subdivision. Plan 71**

DRILLERS REMARKS:  
*Ferguson*

#### FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

#### 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
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

#### METHOD OF DRILLING

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	

NAME OF WELL CONTRACTOR <b>Hadoo Well Drilling and Digging Ltd</b>	LICENCE NUMBER <b>2519</b>
ADDRESS <b>P.O. Box 730 Elmira Ontario</b>	
NAME OF DRILLER OR BORER <b>R.L. Franklin</b>	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>R.L. Franklin</i>	SUBMISSION DATE DAY <b>24</b> MO. <b>Aug</b> YR. <b>73</b>

DATA SOURCE <b>1</b>	CONTRACTOR <b>2519</b>	DATE COMPLETED <b>290873</b>
DATE OF INSPECTION	INSPECTOR	
REMARKS:	<b>CSS.S8</b>	



# WATER WELL RECORD

40 P/9W

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

11

6704752

MUNICIP. 67009

CON. C/P

LOT 019

COUNTY OR DISTRICT: **Hallington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON., BLOCK, TRACT, SURVEY, ETC.: **Plan 71 XV** LOT: **019**

OWNER (SURNAME FIRST): **Bldg Corp** ADDRESS: **239 Queen Street East Brampton, Ontario.** DATE COMPLETED: DAY **15** MO **05** YR **73**

U ZONE: **17** EASTING: **548850** NORTHING: **4839900** RC: **4** ELEVATION: **1375** RC: **5** BASIN CODE: **23**

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<b>Brown</b>	<b>Clay &amp; Top Soil</b>			<b>0</b>	<b>2</b>
<b>Grey</b>	<b>Sand &amp; Gravel</b>			<b>2</b>	<b>12</b>
<b>Grey</b>	<b>Clay</b>			<b>12</b>	<b>20</b>

31 **00260502** 32 **00122211** 33 **0020205**

#### 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	
			FROM	TO
<b>30</b>	<input checked="" type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED	<b>16g</b>	<b>0</b>	<b>20</b>
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

#### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

#### 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	PUMPING RATE	DURATION OF PUMPING
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	<b>0005</b> GPM	<b>01</b> HOURS <b>00</b> MINS
STATIC LEVEL: <b>003</b> FEET	WATER LEVEL END OF PUMPING: <b>018</b> FEET	WATER LEVELS DURING:
15 MINUTES: _____	30 MINUTES: _____	45 MINUTES: _____
60 MINUTES: _____	RECOVERY: <b>018</b> FEET	
IF FLOWING, GIVE RATE: _____	PUMP INTAKE SET AT: <b>16</b> FEET	WATER AT END OF TEST: _____
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: <b>016</b> FEET	RECOMMENDED PUMPING RATE: <b>0005</b> GPM

#### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

DRILLERS REMARKS: \_\_\_\_\_

#### 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  COMMERCIAL 6  MUNICIPAL 7  PUBLIC SUPPLY 8  COOLING OR AIR CONDITIONING 9  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: **Hadoo Well Drilling and Digging Ltd** LICENCE NUMBER: **2519**

ADDRESS: **P.O. Box 730 Elmira Ontario**

NAME OF DRILLER OR BORER: **R.L. Franklin** LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY **24** MO **Aug** YR **73**

#### OFFICE USE ONLY

DATA SOURCE: \_\_\_\_\_ CONTRACTOR: **2519** DATE RECEIVED: **290873**

DATE OF INSPECTION: **10/1/74** INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.S8



Ontario

# WATER WELL RECORD

for 1/9w

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

6704757-11  
MUNICIPALITY: 67009  
CON. NO.: 019  
LOT: 15

COUNTY OR DISTRICT: **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON. BLOCK, TRACT, SURVEY, ETC: **Road 19 Plan 71** LOT: **25-27**

DATE COMPLETED: DAY **16** MO. **Aug** YR. **73**

**2 Mississauga Road Mississauga Ontario**

RC: 3198510 ELEVATION: 141.375 RC: 151 BASIN CODE: 23

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Hard clay			0	5
Brown	course sand			5	18
Greyish	Gravel			18	19
Grey	Clay & stones			19	25

31	00051605	00186110	00192111	002520512
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**41 WATER RECORD**

WATER FOUND AT - 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	
			FROM	TO
30"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	16g	0	0016
24"	1 <input checked="" type="checkbox"/> GALVANIZED 2 <input type="checkbox"/> CONCRETE 3 <input type="checkbox"/> OPEN HOLE	16g	16	0025
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

**SCREEN**

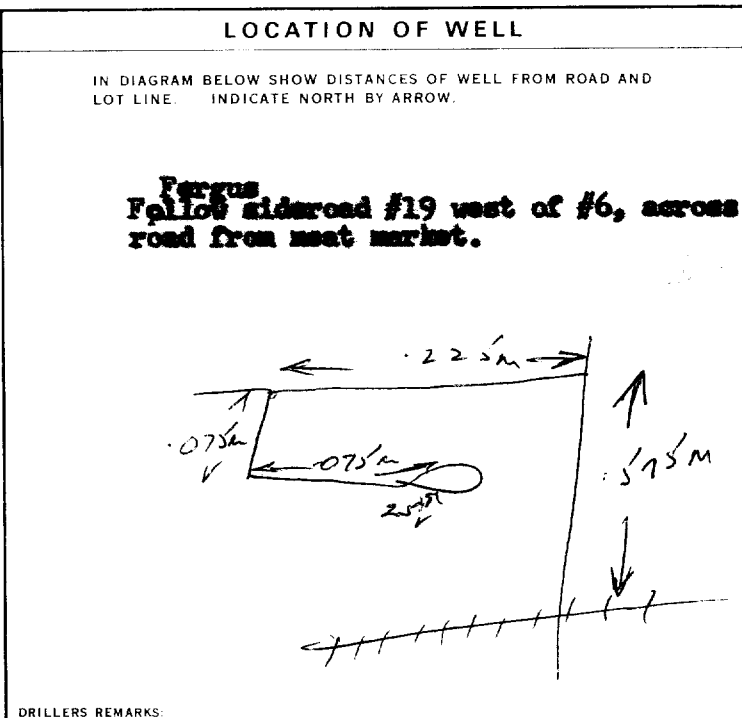
SIZE(S) OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44
		FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD: 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: 0008 GPM	DURATION OF PUMPING: 01 15-16 HOURS 00 17-18 MINS
STATIC LEVEL: 007 FEET	WATER LEVEL END OF PUMPING: 024 FEET	WATER LEVELS DURING PUMPING: 26-28 FEET 29-31 FEET 32-34 FEET 35-37 FEET
IF FLOWING, GIVE RATE: 18 GPM	PUMP INTAKE SET AT: 18 FEET	WATER AT END OF TEST: 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 018 FEET	RECOMMENDED PUMPING RATE: 0008 GPM



**FINAL STATUS OF WELL**

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

**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
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

**METHOD OF DRILLING**

1 <input type="checkbox"/> CABLE TOOL	6 <input checked="" type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> D AMOND
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	

**CONTRACTOR**

NAME OF WELL CONTRACTOR: **Habo Well Drilling and Digging Ltd. 2510** LICENCE NUMBER: **2510**

ADDRESS: **P.O. Box 720 Windsor Ontario.**

NAME OF DRILLER OR BORER: **R.L. Franklin** LICENCE NUMBER: **R.L. Franklin**

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **24** MO. **Aug** YR. **73**

**OFFICE USE ONLY**

DATA SOURCE: **1** CONTRACTOR: **2510** DATE RECEIVED: **290873**

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: **CSS.S8** *P/LM*



Ontario

MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act

# WATER WELL RECORD

AP/9W

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

11

6704780

MUNICIPALITY 137049

CONTRACTOR C/N

115

COUNTY OR DISTRICT

Wellington

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Nichol

CON., BLOCK, TRACT, SURVEY, ETC.

XV

25-019

OWNER (SURNAME FIRST)

Blag Corp

ADDRESS

239 Queen Street East, Brampton, Ontario

DATE COMPLETED

DAY 12 MO. Sept YR. 73

21

ZONE 117

EASTING 548870

NORTHING 483995

RC. 14

ELEVATION 1375

BASIN CODE 23

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	5
Brown	Sand & Gravel			5	12
Grey	Clay & Rocks			12	20

31	1000576165	10012162811	10020205126						
32									

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	14
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	19
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	24
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
25-29	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	29
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	34
	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
30"	1 <input type="checkbox"/> STEEL	16g	0	20
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL			20-23
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL			27-30
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			

**SCREEN**

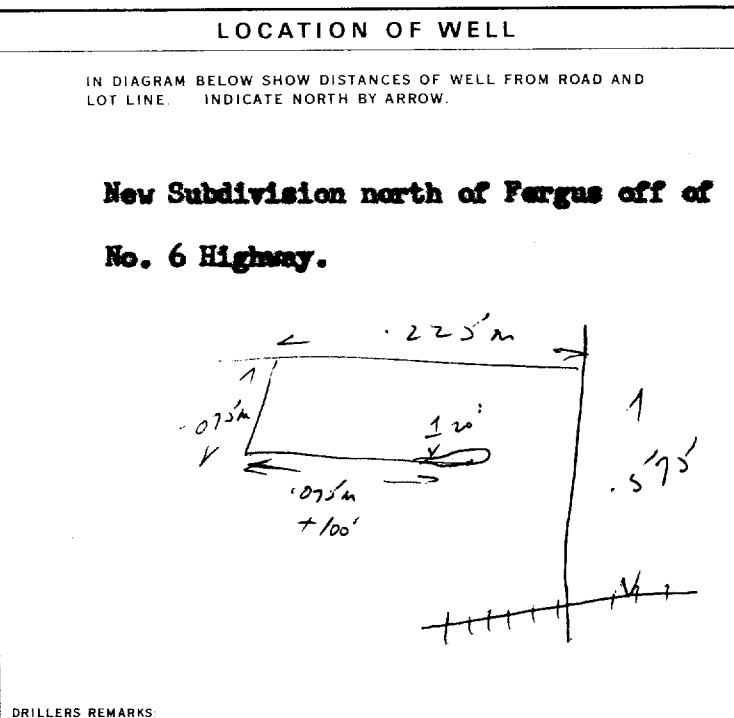
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET
		80

**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	8 0008 GPM	01 15-16 HOURS
2 <input type="checkbox"/> BAILER		00 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES
004 FEET	014 FEET	26-28
		29-31
		32-34
		35-37
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	15 GPM	1 <input checked="" type="checkbox"/> CLEAR
		2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW	015 FEET	0006 GPM
2 <input type="checkbox"/> DEEP		



**FINAL STATUS OF WELL**

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

**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"/> OTHER	9 <input type="checkbox"/> NOT USED

**METHOD OF DRILLING**

1 <input type="checkbox"/> CABLE TOOL	6 <input checked="" type="checkbox"/> BORING
2 <input 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	

**CONTRACTOR**

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Hedco Well Drilling and Digging Ltd. 2519	
ADDRESS	
P.O. Box 930 Elmira Ontario	
NAME OF DRILLER/BORER	LICENCE NUMBER
R.L. Franklin	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	DAY 26 MO. Sept YR. 73

**OFFICE USE ONLY**

DATA SOURCE	CONTRACTOR	DATE RECEIVED
1	2519	28 09 73
DATE OF INSPECTION	INSPECTOR	
10/1/74		
REMARKS:		

CSS.S8

P/AM

WT SM



# WATER WELL RECORD

40 P/qw

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

11 6705305 67009 CON. CAN 15

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: NICHOL CON., BLOCK, TRACT, SURVEY, ETC.: CON. 4 15 LOT: 019

DATE COMPLETED: DAY 25 MO. 09 YR. 74

6705305 17 548833 4840101 5 1380 5 23 AUG 05, 1977 323

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY	SAND	LOOSE	0	10
BROWN	SAND		LOOSE	10	28
GREY	CLAY	GRAVEL	LOOSE	28	183
GREY	SAND		LOOSE	183	236
GREY	GRAVEL		PACKED	236	237
GREY	LIMESTONE		HARD	237	238

31 00106052877 002862877 01832051177 023622877 023721179 023821573

32

**41 WATER RECORD**

WATER FOUND AT - FEET: 0 238

KIND OF WATER:

1  FRESH 3  SULPHUR 4  MINERAL

2  SALTY

15-18 1  FRESH 3  SULPHUR 4  MINERAL

20-23 1  FRESH 3  SULPHUR 4  MINERAL

25-28 1  FRESH 3  SULPHUR 4  MINERAL

30-33 1  FRESH 3  SULPHUR 4  MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	+1	0237
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		237	0238
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.): 31-33 DIAMETER: 34-38 LENGTH: 39-40

MATERIAL AND TYPE: 41-44 DEPTH TO TOP OF SCREEN: 45

**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: 1  PUMP 2  BAILER

PUMPING RATE: 0035 GPM

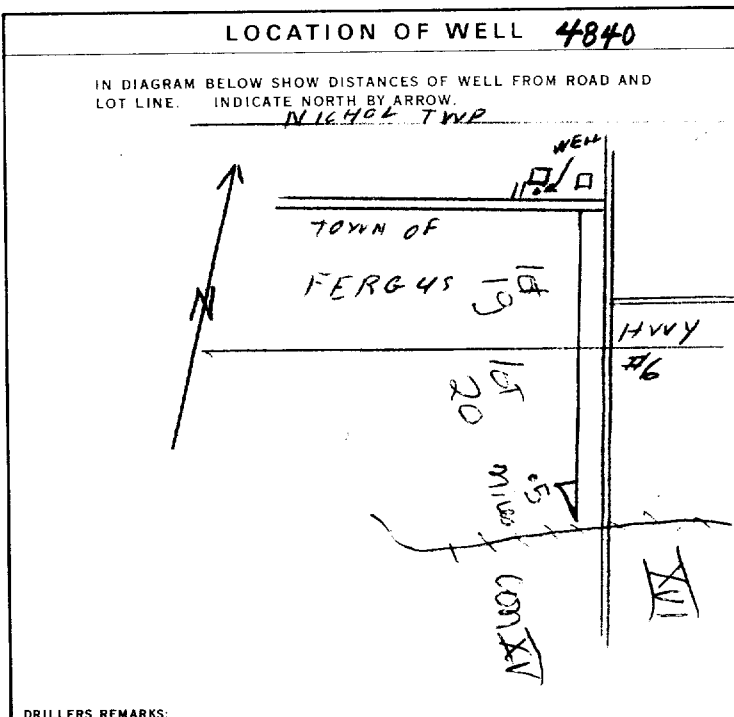
DURATION OF PUMPING: 02 HOURS 15 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
078	140	15 MINUTES: 100	30 MINUTES: 085	45 MINUTES: 078	60 MINUTES: 078

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 150 FEET

RECOMMENDED PUMPING RATE: 0010 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  OTHER 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: JOHN OCONNOR LICENCE NUMBER: 4005

ADDRESS: RR#1 MILLGROVE ONT.

NAME OF DRILLER OR BORER: W. HOWE LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY \_\_\_\_ MO. \_\_\_\_ YR. \_\_\_\_

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 4005 DATE RECEIVED: 101074

DATE OF INSPECTION: INSPECTOR:

REMARKS: CSS.S8 P WI





Ontario

# WATER WELL RECORD

40A

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

11

6705317

MUNICIPALITY 67009

CON. CON

COUNTY OR DISTRICT <b>Wellington</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>Nichol</b>	CON., BLOCK, TRACT, SURVEY, ETC. <b>15</b>	LOT <b>019</b>
OWNER <b>R. I. Fergus, Ont.</b>			DATE COMPLETED DAY <b>10</b> MO. <b>10</b> YR. <b>74</b>
GRID REFERENCE <b>839584</b>	ELEVATION <b>5 1370</b>	BASIN CODE <b>5 23</b>	DATE <b>AUG 05, 1977</b>

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	fill			0	6
grey	clay			6	18
grey	hardpan	stones		18	59
brown	limestone			59	60
grey	limestone			68	145
brown	limestone			145	148

31	00066101	00182065	005921412	0068615	0145215	0148615
32						

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	14
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	19
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	24
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	29
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	34-40

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	12		13-16
17-18	1 <input type="checkbox"/> STEEL	19		20-23
24-25	1 <input type="checkbox"/> STEEL	28		27-30

#### SCREEN

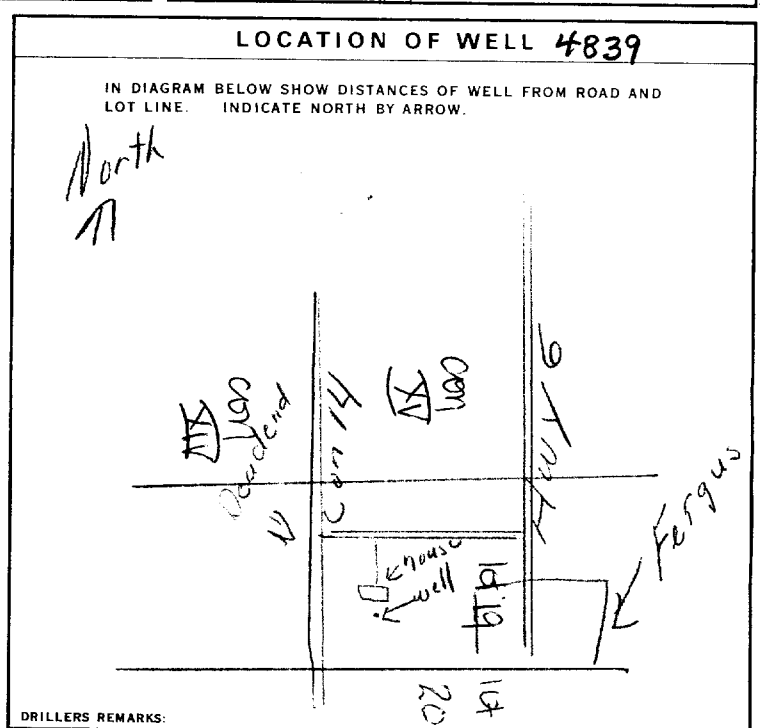
SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
MATERIAL AND TYPE	INCHES		FEET		
	DEPTH TO TOP OF SCREEN		41-44		
			FEET		

#### 61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	60

#### 71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE <b>00 10</b> GPM	DURATION OF PUMPING 15-16 HOURS <b>01</b> 17-18 MINS
STATIC LEVEL <b>0 18</b> FEET	WATER LEVEL END OF PUMPING <b>0 35</b> FEET	WATER LEVELS DURING 15 MINUTES <b>0 35</b> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT <b>50</b> FEET	WATER AT END OF TEST <b>0 35</b> FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <b>0 50</b> FEET	RECOMMENDED PUMPING RATE <b>00 10</b> GPM



#### FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

#### 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
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

#### METHOD OF DRILLING

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

NAME OF WELL CONTRACTOR <b>Hugh Morrison Well Drilling</b>	LICENCE NUMBER <b>3740</b>
ADDRESS <b>R. R. 5, Mount Forest, Ont.</b>	
NAME OF DRILLER OR BORER <b>Hugh Morrison</b>	LICENCE NUMBER <b>3740</b>
SIGNATURE OF CONTRACTOR <i>Hugh Morrison</i>	SUBMISSION DATE DAY _____ MO. _____ YR. _____

DATA SOURCE <b>1</b>	CONTRACTOR <b>3740</b>	DATE RECEIVED <b>281074</b>
DATE OF INSPECTION	INSPECTOR	
REMARKS	P <b>KP</b> WI	



MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act  
**WATER WELL RECORD**

401/9W

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

11 16705699.1 67.009 15  
MUNICIPALITY 67.009 CON. 15

COUNTY OR DISTRICT: **Haldimand** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON., BLOCK, TRACT, SURVEY, ETC.: **15**  
DATE COMPLETED: DAY **08** MO. **09** YR. **75**  
WELL NO.: **#1 Fergus Ontario**  
ELEVATION: **398.00** RC: **5** ELEVATION: **1375** RC: **5** BASIN CODE: **23**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	3
Grey	Gravel			3	10
Grey	EXX Clay			10	25

31 0003609 0010211 025205  
32

**41 WATER RECORD**

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

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
30	STEEL GALVANIZED	.064	0	0025
17-18	STEEL			20-23
24-25	STEEL GALVANIZED			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH 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: **0003** GPM  
DURATION OF PUMPING: **01** HOURS **00** MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
006 FEET	024 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET

IF FLOWING, GIVE RATE: **22** GPM  
PUMP INTAKE SET AT: **22** FEET  
WATER AT END OF TEST: **010** FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP  
RECOMMENDED PUMPING RATE: **0003** GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

Follow # 6 Highway north of Fergus to 1st left, go to 1st road left, 1st place on left, well in front of house.

DRILLERS REMARKS:

**FINAL STATUS OF WELL**: 1  WATER SUPPLY  
**WATER USE**: 01 DOMESTIC  
**METHOD OF DRILLING**: 6 BORING

**CONTRACTOR**: Hadoo Well Drilling & Digging Ltd. 2519  
P.O. Box 730 Elmira Ontario  
David Steele  
SUBMISSION DATE: DAY **17** MO. **Sept** YR. **75**

**OFFICE USE ONLY**: DATA SOURCE: **1** CONTRACTOR: **2519** DATE RECEIVED: **290975**  
DATE OF INSPECTION: **July 5/77** INSPECTOR: **[Signature]**  
REMARKS: **C/O G. HILLS.**



Ministry of the Environment

# The Ontario Water Resources Act WATER WELL RECORD

40219

**S.P.M.**

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

11 6706607 67601

COUNTY OR DISTRICT: **Wellington**  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **TOWN OF FERGUS**  
CON., BLOCK, TRACT, SURVEY, ETC.:  
LOT: 25-27

OWNER: **W.A. BEATTIE LTD.**  
ADDRESS: **930 ST. DAVID ST. N., Fergus**  
DATE COMPLETED: DAY **19** MO **10** YR. **77**

ZONE: **17** EASTING: **548950** NORTHING: **4840150** RC: **5** ELEVATION: **1380** RC: **5** BASIN CODE: **23**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	fill			0	3
Brown	sand			3	7
Brown	gravel			7	11
Blue	clay			11	15

31 32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER			
5	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
19	<input checked="" 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	
			FROM	TO
30	<input checked="" type="checkbox"/> STEEL GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	.064	0	15
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 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	PUMPING RATE GPM	DURATION OF PUMPING HOURS
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	10	30

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING				
5		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	
		26-28	29-31	32-34	35-37	

IF FLOWING, GIVE RATE: \_\_\_\_\_ GPM

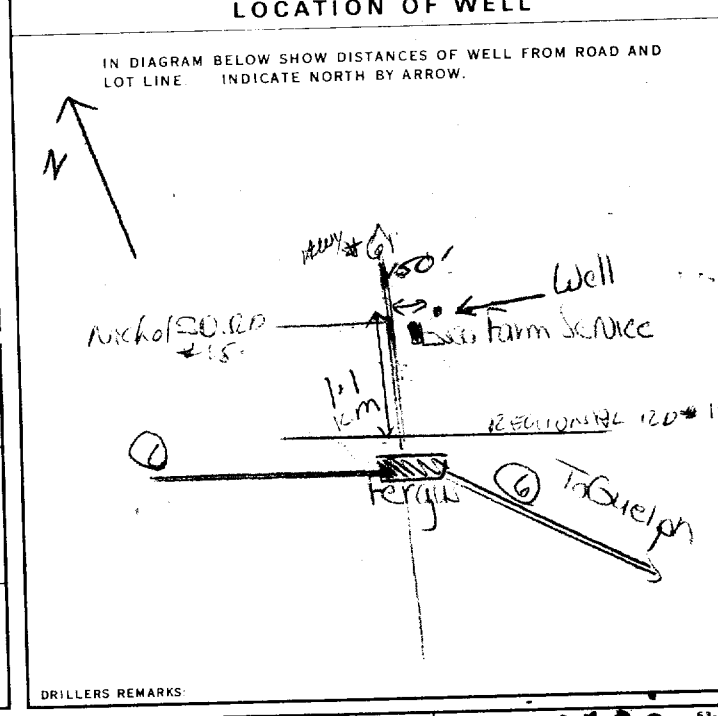
PUMP INTAKE SET AT: \_\_\_\_\_ FEET

WATER AT END OF TEST:  CLEAR  CLOUDY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 612 FEET

RECOMMENDED PUMPING RATE: 1007 GPM



**FINAL STATUS OF WELL**

WATER SUPPLY  
 OBSERVATION WELL  
 TEST HOLE  
 RECHARGE WELL

ABANDONED, INSUFFICIENT SUPPLY  
 ABANDONED, POOR QUALITY  
 UNFINISHED

**WATER USE**

DOMESTIC  
 STOCK  
 IRRIGATION  
 INDUSTRIAL  
 OTHER

COMMERCIAL  
 MUNICIPAL  
 PUBLIC SUPPLY  
 COOLING OR AIR CONDITIONING  
 NOT USED

**METHOD OF DRILLING**

CABLE TOOL  
 ROTARY (CONVENTIONAL)  
 ROTARY (REVERSE)  
 ROTARY (AIR)  
 AIR PERCUSSION

BORING  
 DIAMOND  
 JETTING  
 DRIVING

**CONTRACTOR**

NAME OF WELL CONTRACTOR: **HADCO WELL DRILLING & DIGGING** LICENCE NUMBER: **2519**

ADDRESS: **Box 188, Elmira, Ontario N3B 2Z6**

NAME OF DRILLER OR BORER: **Mr. David Hatherton** LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY **1** MO **11** YR. **77**

**OFFICE USE ONLY**

DATA SOURCE: **1** CONTRACTOR: **2519** DATE RECEIVED: **100178**

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.S8

# WATER WELL RECORD

4019

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

11 6707078 67009 CON 16

COUNTY OR DISTRICT: [redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Levesque CON. BLOCK, TRACT, SURVEY, ETC: 16 LOT: 019

DATE COMPLETED: 08 MO. 10 YR. 79

12 11 13 12 14 13 15 14 16 15 17 16 18 17 19 18 20 19 21 20 22 21 23 22 24 23 25 24 26 25 27 26 28 27 29 28 30 29 31 30 32 31 33 30 34 31 35 32 36 33 37 34 38 35 39 36 40 37 41 38 42 39 43 40 44 41 45 42 46 43 47 44 48 45 49 46 50 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Top soil			0	1
	Brown sandy clay + stones			1	10
	Brown sand + gravel			10	15
	grey clay			15	28
	gravel + sand			28	30

31 0001 02 00104051281 FC1502811 0028299 0039 1128

**41 WATER RECORD**

WATER FOUND AT - 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 checked="" 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	
			FROM	TO
30"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1064	0	30
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			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			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		41-44 FEET
		45-50 FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD: Levesque BAILER 0005 GPM Levesque DURATION OF PUMPING Levesque HOURS 00 MIN 00

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING				
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	
012 FEET	030 FEET	26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET	016 FEET

IF FLOWING GIVE RATE: 012 FEET

PUMP INTAKE SET AT: 24 FEET

WATER AT END OF TEST: 016 FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 024 FEET

RECOMMENDED PUMPING RATE: 0005 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

DRILLERS REMARKS: Levesque

**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: Levesque Water Wells LICENCE NUMBER: 5477

ADDRESS: RR 2 Breslau

NAME OF DRILLER OR BORER: R Levesque LICENCE NUMBER: 5477

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 13 MO. 2 YR. 79

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 5477 DATE RECEIVED: 16 10 79

DATE OF INSPECTION: 10/19/80 INSPECTOR: [Signature]

REMARKS: CSS.S8 P-2W

## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 6708059

Well Audit Number:

Well Tag Number:

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

### Well Location

<b>Address of Well Location</b>	
<b>Township</b>	NICHOL TOWNSHIP
<b>Lot</b>	019
<b>Concession</b>	CON 15
<b>County/District/Municipality</b>	WELLINGTON
<b>City/Town/Village</b>	
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 548674.20 Northing: 4839975.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL			0 ft	5 ft
BLCK	LOAM			5 ft	6 ft
RED	CLAY	SAND	BLDR	6 ft	76 ft
GREY	LMSN			76 ft	88 ft
GREY	LMSN			88 ft	181 ft

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

### Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Convent.)	
	Domestic

**Status of Well**

Water Supply

**Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
5 inch			88 ft
5 inch	OPEN HOLE		181 ft

**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 4643

**Results of Well Yield Testing**

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	120 GPM
Duration of Pumping	6 h:0 m
Final water level	
If flowing give rate	
Recommended pump depth	130 ft
Recommended pump rate	4 GPM
Well Production	PUMP
Disinfected?	

**Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	60 ft		
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 ft	60	

**Water Details**

Water Found at Depth	Kind
170 ft	Fresh

**Hole Diameter**

Depth From	Depth To	Diameter

**Audit Number:**

**Date Well Completed:** July 07, 1983

**Date Well Record Received by MOE:** August 11, 1983

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

# WATER WELL RECORD

6708481

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

11

MUNICIP. \_\_\_\_\_ CON. \_\_\_\_\_

COUNTY OR DISTRICT: WELLINGTON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: ALGOL TWP. CON. BLOCK, TRACT, SURVEY, ETC.: L10, C15 LOT: 25-27

DATE COMPLETED: 24 DAY June MO 86 YR

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
		Top soil		0	2
Gray		Clay stones		2	82
		Lime rock		82	100
Gray		rock		100	110
		Lime rock		110	130
Brown		rock		130	145
		Lime rock		145	155

31 \_\_\_\_\_ 32 \_\_\_\_\_

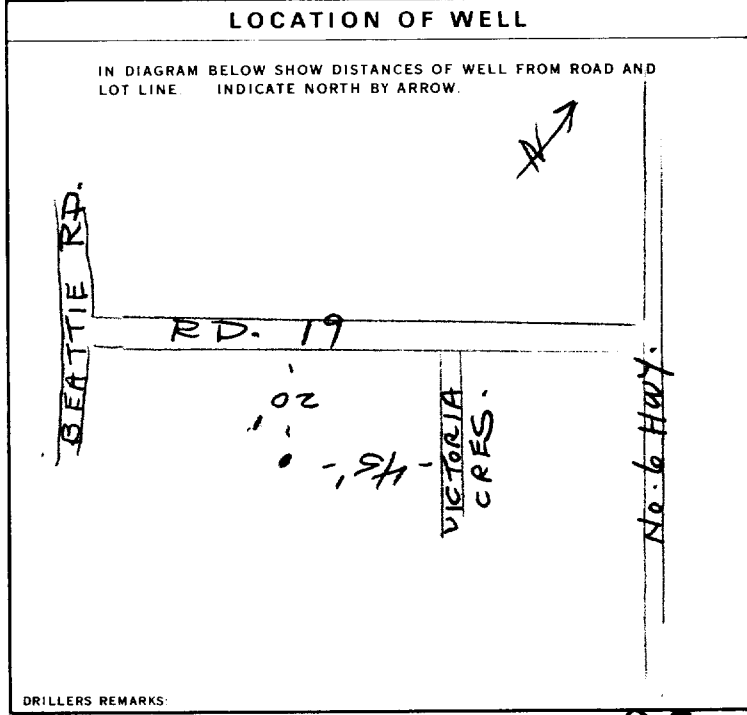
WATER FOUND AT - FEET	KIND OF WATER
135	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
153	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 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

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5 1/2	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1/88	0	86
			86	155
	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

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

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

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10 <u>10</u> GPM	3 15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 <u>26</u> FEET	22-24 <u>60</u> FEET	15 MINUTES <u>60</u> FEET 30 MINUTES <u>60</u> FEET 45 MINUTES <u>60</u> FEET 60 MINUTES <u>60</u> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	<u>60</u> GPM	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	<u>80</u> FEET	<u>10</u> GPM



FINAL STATUS OF WELL	1 <input checked="" type="checkbox"/> WATER SUPPLY 5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 6 <input type="checkbox"/> ABANDONED POOR QUALITY 3 <input type="checkbox"/> TEST HOLE 7 <input type="checkbox"/> UNFINISHED 4 <input type="checkbox"/> RECHARGE WELL
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 <input type="checkbox"/> OTHER 9 <input type="checkbox"/> NOT USED
METHOD OF DRILLING	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

NAME OF WELL CONTRACTOR	LICENCE NUMBER
<u>Albert Carley</u>	<u>1906</u>
ADDRESS	
<u>202 Meeve St Guelph</u>	
NAME OF DRILLER OR BORER	LICENCE NUMBER
<u>Albert Carley</u>	<u>1906</u>
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
<u>Albert Carley</u>	DAY <u>25</u> MO <u>June</u> YR <u>86</u>

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		<u>090786</u>
DATE OF INSPECTION	INSPECTOR	
REMARKS		



# WATER WELL RECORD

Ontario  
WELLINGTON

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

11

6709226

MUNICIPALITY 67009

CON. 10 14 15 22 23 74

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON. BLOCK, TRACT, SURVEY ETC: **15** LOT: **20**

DATE COMPLETED: DAY **2** MO **Nov** YR **87**

NAME: **R I Fergus**

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Br.	Clay	F. Sand - M. Gravel		0	18
Gr.	Clay	Rock pebbles		18	80
Gr.	Rock	Limestone		80	260

31

32

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER		
180-260	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	STEEL	.188	0	82
5	STEEL		82	260

#### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

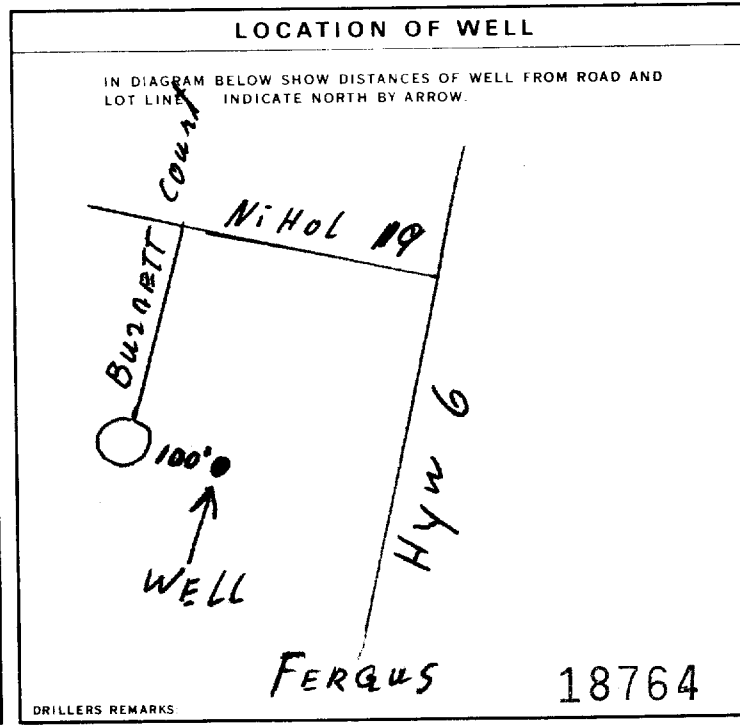
#### 61 PLUGGING & SEALING RECORD

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	PUMPING RATE	DURATION OF PUMPING
<input checked="" type="checkbox"/> PUMP	10 GPM	1 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
83	84	83



#### FINAL STATUS OF WELL

WATER SUPPLY

#### WATER USE

DOMESTIC

#### METHOD OF CONSTRUCTION

ROTARY (CONVENTIONAL)

#### CONTRACTOR

NAME OF WELL CONTRACTOR: **Rudy's Well Drilling**  
WELL CONTRACTOR'S LICENCE NUMBER: **2332**

ADDRESS: **RRI Hillsburg**

NAME OF WELL TECHNICIAN: **Rudy Garbotz**  
WELL TECHNICIAN'S LICENCE NUMBER: **0180**

SIGNATURE OF TECHNICIAN/CONTRACTOR: *[Signature]*

#### OFFICE USE ONLY

DATA SOURCE: **2332** DATE RECEIVED: **MAY 19 1988**

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.ES

1. PRINT ONLY IN SPACES PROVIDED  
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6709360

MUNICIPALITY 67009

CON. 15 22 23 74

COUNTY OR DISTRICT: WELLINGTON  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: NICHOL, FERGUS  
CON. BLOCK, TRACT, SURVEY, ETC: Con. 19  
LOT: 7  
OWNER (SURNAME FIRST): P & G Construction  
ADDRESS: Durnell Court Rm 1 Fergus  
DATE COMPLETED: DAY 24 MO June YR 88

21 ZONE EASTING NORTHING RC ELEVATION RC BASIN CODE

**LOG OF OVERBURDEN AND BEDROCK MATERIALS** (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown		clay and stones		0	81
Light Gray		rock		81	90
Gray		rock		90	110
		Lime rock		110	245

31 32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER					
2-44	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>
	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>
	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>
	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>
	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	STEEL	188	0	85
	STEEL		85	245
	STEEL			
	STEEL			
	STEEL			

**SCREEN**

SIZE OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP	7 GPM	4 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
60 FEET	200 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		200 FEET	200 FEET	200 FEET	200 FEET

IF FLOWING, GIVE RATE: 200 GPM  
PUMP INTAKE SET AT: 200 FEET  
RECOMMENDED PUMP TYPE: SHALLOW  
RECOMMENDED PUMP SETTING: 200 FEET  
RECOMMENDED PUMPING RATE: 6 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

42.5 →

19485

DRILLERS REMARKS

**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: Albert Carley  
WELL CONTRACTOR'S LICENCE NUMBER: 1906  
ADDRESS: 202 Meech St  
NAME OF WELL TECHNICIAN: Albert Carley  
WELL TECHNICIAN'S LICENCE NUMBER: 700-18  
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
SUBMISSION DATE: DAY 27 MO June YR 88

**OFFICE USE ONLY**

DATA SOURCE: CONTRACTOR 1906  
DATE RECEIVED: SEP 28 1988  
DATE OF INSPECTION: [Blank]  
INSPECTOR: [Blank]  
REMARKS: [Blank]



Ministry  
of the  
Environment

Ontario

The Ontario Water Resources Act

# WATER WELL RECORD

6709436

MUNICIPALITY: 67000

CON. 15 22 23 24

1. PRINT ONLY IN SPACES PROVIDED  
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COUNTY OR DISTRICT: Wellington  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichol  
CON. BLOCK, TRACT, SURVEY, ETC: 19 lot #7 P1 71  
LOT: 25-27  
OWNER (SURNAME FIRST): R & G Construction  
ADDRESS: Turnett Court Rk #1 Jergus  
DATE COMPLETED: DAY 28 MO Sept YR 88  
NORTHING: [redacted] ELEVATION: [redacted] BASIN CODE: [redacted]

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown		clay and stone		0	81
Brown		rock		81	105
Gray		rock		105	130
Brown		rock		130	175
White		rock		175	245

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER
13-18	1 <input checked="" type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER
20-23	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER
25-28	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER
30-33	1 <input type="checkbox"/> FRESH	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER

### 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 5 <input type="checkbox"/> PLASTIC	1 1/8	0	85
			85	245
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)	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.)
FROM TO		
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	6 GPM	7 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES 26-28
60 FEET	200 FEET	200 FEET 200 FEET 200 FEET 200 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	200 GPM	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	200 FEET	6 GPM

### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

DRILLERS REMARKS: 19519

### 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: Albert Earley  
WELL CONTRACTOR'S LICENCE NUMBER: 1906  
ADDRESS: 202 Meave St Guelph  
NAME OF WELL TECHNICIAN: Albert Earley  
WELL TECHNICIAN'S LICENCE NUMBER: T00-18  
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
SUBMISSION DATE: DAY 5 MO Oct YR 88

### OFFICE USE ONLY

DATA SOURCE: 1906  
DATE RECEIVED: NOV 01 1988  
DATE OF INSPECTION: [redacted]  
INSPECTOR: [redacted]  
REMARKS: [redacted]

CSS.ES

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6709626

MUNICIPALITY 67009

CON. 14

114

COUNTY OR DISTRICT: Wellington  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichol  
CON., BLOCK, TRACT, SURVEY, ETC.: XIV  
LOT: 19  
DATE COMPLETED: 48-53 DAY 11 MO 03 YR 88  
RC: RR1  
ELEVATION: FERGUS NIM 243

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Br.	Clay	Rocks		0	18
Gr.	Clay	Stones		18	72
Lt. Br.	Limestone			72	123
Dk. Br.	Rock			123	128
Lt. Br.	Limestone		(soft)	128	145

31  
32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
140-145	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	14
15-18	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	19
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	24
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	29
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	34

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	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	188	0	80
6 3/8	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		80	145

**SCREEN**

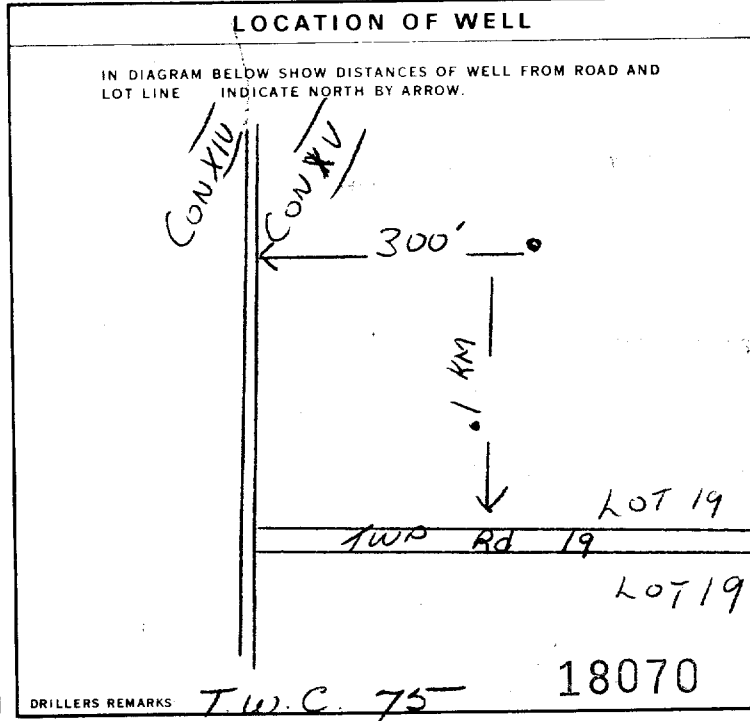
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
FROM TO		
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 type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BRILER	20 GPM	2 HOURS 00 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
48 FEET	70 FEET	15 MINUTES: 70 FEET 30 MINUTES: 70 FEET 45 MINUTES: 70 FEET 60 MINUTES: 70 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	90 GPM	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	90 FEET	20 GPM



**FINAL STATUS OF WELL**

1  WATER SUPPLY 8  ABANDONED, INSUFFICIENT SUPPLY  
2  OBSERVATION WELL 9  ABANDONED POOR QUALITY  
3  TEST HOLE 7  UNFINISHED  
4  RECHARGE WELL 9  DEWATERING

**WATER USE**

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

**METHOD OF CONSTRUCTION**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Lang Well Drilling Ltd  
WELL CONTRACTOR'S LICENCE NUMBER: 3317  
ADDRESS: RR1 Wellshurgh Ont  
NAME OF WELL TECHNICIAN: Roy Lang  
WELL TECHNICIAN'S LICENCE NUMBER: T-0158  
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
SUBMISSION DATE: DAY 10 MO 02 YR 89

**OFFICE USE ONLY**

DATA SOURCE: 3317  
DATE RECEIVED: FEB 10 1989  
GATE OF INSPECTION: [Blank]  
INSPECTOR: [Blank]  
REMARKS: [Blank]  
WDE  
CSS.ES

# WATER WELL RECORD

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

11

6709841

MUNICIP 67009

COM. CAN.

15

COUNTY OR DISTRICT: Wellington TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichols CON. BLOCK, TRACT, SURVEY, ETC: Con 15 LOT: 41

OWNER (SURNAME FIRST): Blinkhorn Motors ADDRESS: RR#1 Fergus MIM: 2N3 DATE COMPLETED: DAY 4 MO 7 YR 89

U ZONE: 21 EASTING: 10 NORTHING: 18 ELEVATION: 25 BASIN CODE: 30

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	gravel	clay		0	13
Gray	sand	gravel silt		13	47
Gray	clay	gravel		47	130
Gray	sand	gravel		130	171
Gray	clay	gravel		171	197
Brown	Quick Sand			197	230
White	Limestone		Porous	230	245
Brown	Limestone			245	251
White	Limestone			251	321
Brown	Limestone			321	340

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
240	1 <input checked="" type="checkbox"/> FRESH 3 <input checked="" type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input checked="" type="checkbox"/> MINERALS 6 <input checked="" type="checkbox"/> GAS
270	1 <input checked="" type="checkbox"/> FRESH 3 <input checked="" type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input checked="" type="checkbox"/> MINERALS 6 <input checked="" type="checkbox"/> GAS
330	1 <input checked="" type="checkbox"/> FRESH 3 <input checked="" type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input checked="" type="checkbox"/> MINERALS 6 <input checked="" type="checkbox"/> GAS

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6	1 <input checked="" type="checkbox"/> STEEL 2 <input checked="" type="checkbox"/> GALVANIZED 3 <input checked="" type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE 5 <input checked="" type="checkbox"/> PLASTIC	188	71	267
6	1 <input checked="" type="checkbox"/> STEEL 2 <input checked="" type="checkbox"/> GALVANIZED 3 <input checked="" type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE 5 <input checked="" type="checkbox"/> PLASTIC		267	340

#### SCREEN

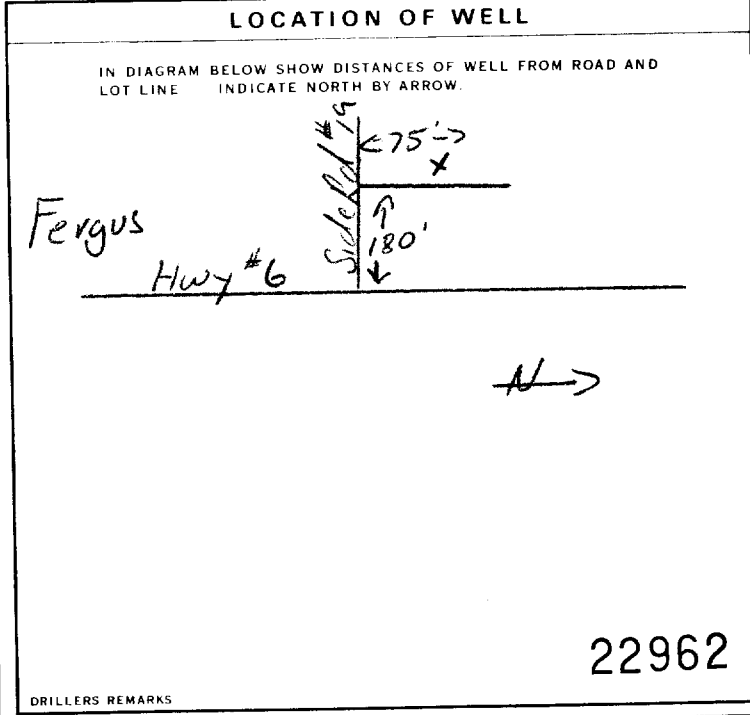
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		FEET

#### 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	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	15-18 GPM	1 15-16 30 17-18 HOURS MINS
STATIC LEVEL: 97 FEET	WATER LEVELS DURING:	1 <input checked="" type="checkbox"/> PUMPING 2 <input checked="" type="checkbox"/> RECOVERY
19-21 22-24 25-27 28-30 29-31 30-32 31-33 32-34 33-35 34-36 35-37	15 MINUTES 26-28 29-31 45 MINUTES 31-34 60 MINUTES 32-34 33-37	
IF FLOWING: GIVE RATE	PUMP INTAKE SET AT: 150 FEET	WATER AT END OF TEST: 1 <input checked="" type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 150 FEET	RECOMMENDED PUMPING RATE: 15 GPM



#### FINAL STATUS OF WELL

1  WATER SUPPLY 8  ABANDONED, INSUFFICIENT SUPPLY  
2  OBSERVATION WELL 9  ABANDONED, POOR QUALITY  
3  TEST HOLE 7  UNFINISHED  
4  RECHARGE WELL 9  DEWATERING

#### WATER USE

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

#### METHOD OF CONSTRUCTION

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: Highland Water Wells WELL CONTRACTOR'S LICENCE NUMBER: 2576

ADDRESS: Box 141 Durham

NAME OF WELL TECHNICIAN: E. Wilson WELL TECHNICIAN'S LICENCE NUMBER: 70113

SIGNATURE OF TECHNICIAN/CONTRACTOR: E. Wilson SUBMISSION DATE: DAY 5 MO 7 YR 89

#### OFFICE USE ONLY

DATA SOURCE: 2576 CONTRACTOR: 2576 DATE RECEIVED: JUL 11 1989

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

CSS.ES

# WATER WELL RECORD

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

11

6709871

MUNICIPALITY 67009

CON. 15

15

COUNTY OR DISTRICT: *Wellington* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Neck* CON. BLOCK, TRACT, SURVEY, ETC: *15* LOT: *2*

R.R. # *1* DATE COMPLETED: DAY *10* MO *Aug* YR *89*

ELEVATION: *15* BASIN CODE: *15*

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>Brown</i>		<i>clay stones</i>		0	75
		<i>Lime rock</i>		75	95
<i>Gray</i>		<i>rock</i>		95	125
<i>Light Brown</i>		<i>Lime rock</i>		125	245

31

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"/> MINERALS <input type="checkbox"/> GAS
245	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	188	0	79
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		79	245
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC			27-30

#### SCREEN

SIZE/SLOT OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH 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	PUMPING RATE	DURATION OF PUMPING
<input checked="" type="checkbox"/> PUMP	10 GPM	7 HOURS
STATIC LEVEL: 76 FEET	WATER LEVEL END OF PUMPING: 145 FEET	WATER LEVELS DURING PUMPING:
		15 MINUTES: 145 FEET
		30 MINUTES: 145 FEET
		45 MINUTES: 145 FEET
		60 MINUTES: 145 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT: 160 GPM	WATER AT END OF TEST: CLEAR
RECOMMENDED PUMP TYPE: DEEP	RECOMMENDED PUMP SETTING: 160 FEET	RECOMMENDED PUMPING RATE: 10 GPM

#### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

*County Rd. 15*

*Barnett Court*

*250 ft.*

19506

#### FINAL STATUS OF WELL

WATER SUPPLY

#### WATER USE

DOMESTIC

#### METHOD OF CONSTRUCTION

ROTARY (CONVENTIONAL)

#### CONTRACTOR

NAME OF WELL CONTRACTOR: *Albert Carley*

WELL CONTRACTOR'S LICENCE NUMBER: *1906*

ADDRESS: *202 Meave St Neesh*

NAME OF WELL TECHNICIAN: *Albert Carley*

WELL TECHNICIAN'S LICENCE NUMBER: *700-18*

SIGNATURE OF TECHNICIAN/CONTRACTOR: *Albert Carley*

SUBMISSION DATE: DAY *10* MO *Aug* YR *89*

#### OFFICE USE ONLY

DATA SOURCE: *1906*

DATE RECEIVED: *AUG 24 1989*

DATE OF INSPECTION: \_\_\_\_\_

INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

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

11

6710053

MUNICIPALITY 67009

CONTRACTOR CON

15

COUNTY OR DISTRICT: **WINDSOR** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **WINDSOR** CON. BLOCK TRACT, SURVEY ETC: **15** LOT: **19**  
DATE COMPLETED: DAY **4** MO **NOV** YR **89**  
WELL DEEPENING

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			EXISTING WELL DUG BY BACKHOE (OTHERS)		
			APPROX 14 YEARS OLD	0'	10'
BROWN	SAND	GRAVELL	HOUSE	10'	12'
GRAY	CLAY	STONES -	FIRM	12'	13'

31  
32

**41 WATER RECORD**

WATER FOUND AT - FEET: **9'**

KIND OF WATER (SEE TEST ONLY)

10-13: 1  FRESH 2  SALTY 3  SULPHUR 4  MINERALS 6  GAS

15-18: 1  FRESH 2  SALTY 3  SULPHUR 4  MINERALS 6  GAS

20-23: 1  FRESH 2  SALTY 3  SULPHUR 4  MINERALS 6  GAS

25-28: 1  FRESH 2  SALTY 3  SULPHUR 4  MINERALS 6  GAS

30-33: 1  FRESH 2  SALTY 3  SULPHUR 4  MINERALS 6  GAS

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
36"	STEEL	3"	0'	10'
30"	STEEL	1 1/2"	3'	13'

**SCREEN**

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

DIAMETER: 31-33

LENGTH: 34-38

MATERIAL AND TYPE:

DEPTH TO TOP OF SCREEN: 41-44

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET

FROM: 0' TO: 10' 17"

MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.):

10'-13' CEMENT TILE TOP

13'-17' 10" COVERT FILL

17'-22' VOID WITH DATIVE MATERIAL

**71 PUMPING TEST**

PUMPING METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 3 GPM

DURATION OF PUMPING: 1 HOURS

STATIC LEVEL: 9'0"

WATER LEVEL END OF PUMPING: 9'8"

WATER LEVELS DURING:

15 MINUTES: 9'1"

30 MINUTES: 9'

45 MINUTES: 32-34 FEET

60 MINUTES: 35-37 FEET

IF FLOWING, GIVE RATE: 12 GPM

PUMP INTAKE SET AT: 12 FEET

WATER AT END OF TEST: 1  CLEAR 2  CLOUDY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 12 FEET

RECOMMENDED PUMPING RATE: 3 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

N

Hwy 6

Ontario Gas Storage

VICTORIA CRES.

KENTUCKY FRIED CHICKEN STORE

FERGOS.

41658

DRILLERS REMARKS

**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 8  DEWATERING

**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 CONSTRUCTION**

1  CABLE TOOL 6  BORING

2  ROTARY (CONVENTIONAL) 7  DIAMOND

3  ROTARY (REVERSE) 8  JETTING

4  ROTARY (AIR) 9  DRIVING

5  AIR PERCUSSION 10  DIGGING  OTHER

**CONTRACTOR**

NAME OF WELL CONTRACTOR: **S.D. SMITH DRILLING Co. LTD.**

WELL CONTRACTOR'S LICENCE NUMBER: **4868**

ADDRESS: **RR# 2 ACTON ONT.**

NAME OF WELL TECHNICIAN: **STAN SMITH**

WELL TECHNICIAN'S LICENCE NUMBER: **TO 416**

SIGNATURE OF TECHNICIAN/CONTRACTOR: *[Signature]*

SUBMISSION DATE: DAY **4** MO **NOV** YR **89**

**OFFICE USE ONLY**

DATA SOURCE: 58

CONTRACTOR: **4868**

DATE RECEIVED: **NOV 29 1989**

DATE OF INSPECTION:

INSPECTOR:

REMARKS:

CSS.ES

6710176

MUNICIP 67009

CON. CON.

115

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

11

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: NICHOL CON. BLOCK TRACT. SURVEY ETC: 15 LOT: 19  
 DATE COMPLETED: DAY 06 MO 012 YR 89  
 ADDRESS: Woodwich St. Guelph, Ont.

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	SAND	STONES		0	15
BROWN	CLAY	GRAVEL		15	63
BROWN	CLAY	SAND, GRAVEL		63	73
li. BROWN	ROCK			73	105
BROWN GREY	ROCK			105	140
li. BROWN	ROCK			140	321
TOTAL Depth 321 FT.					

31  
32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
230	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	14
319	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	19
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	24
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	29
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	34-30

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6	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	75
6	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		75	321
	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**

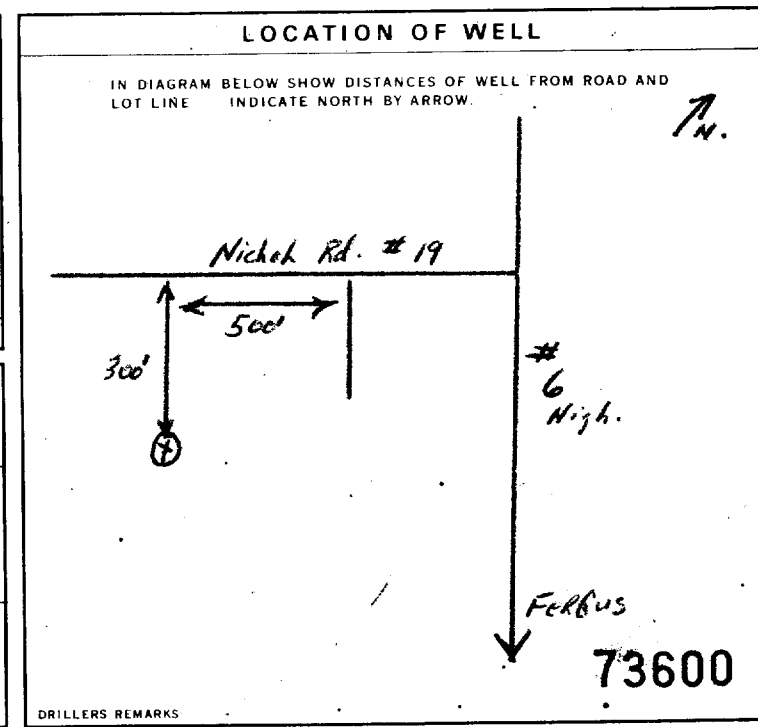
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
FROM TO		
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	7 GPM	3 15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
80 FEET	145 FEET	15 MINUTES 124 FEET 30 MINUTES 132 FEET 45 MINUTES 140 FEET 60 MINUTES 145 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	180 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	180 FEET	7 GPM



**FINAL STATUS OF WELL**

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	<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
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

**METHOD OF CONSTRUCTION**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: GRAMM WELL DRILLING LTD.  
 WELL CONTRACTOR'S LICENCE NUMBER: 2336  
 ADDRESS: RR#5 Rockwood, Ont. NOB-2KO  
 NAME OF WELL TECHNICIAN: J. HAWKINS  
 WELL TECHNICIAN'S LICENCE NUMBER: T-0427  
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
 SUBMISSION DATE: DAY 030 MO 012 YR 89

**OFFICE USE ONLY**

DATA SOURCE: 2336  
 CONTRACTOR: 2336  
 DATE RECEIVED: JAN 17 1990  
 DATE OF INSPECTION: [Blank]  
 INSPECTOR: [Blank]  
 REMARKS: [Blank]  
 CSS.ES





Ministry  
of the  
Environment  
Ontario

The Ontario Water Resources Act

# WATER WELL RECORD

39-90

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

11

0710312

MUNICIPALITY 67009

CON. CON

15

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichol CON. BLOCK, TRACT, SURVEY ETC: 15 LOT: 18

DATE COMPLETED: 48-53 DAY: 030 MO: 05 YR: 90

RR # 1, Fergus, Ont. N1M2W3

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	SAND		FINE	0	35
"	CLAY	SAND		35	75
"	CLAY	GRAVEL		75	89
BROWN	Rock			89	141
TOTAL Depth				141	FT.

31

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
115	2 <input type="checkbox"/> SALTY	6 <input type="checkbox"/> GAS	
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
141	2 <input type="checkbox"/> SALTY	6 <input type="checkbox"/> GAS	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	.188	0	89
6	2 <input type="checkbox"/> GALVANIZED			
17-18	3 <input type="checkbox"/> CONCRETE		89	141
6	4 <input type="checkbox"/> OPEN HOLE			
24-25	5 <input type="checkbox"/> PLASTIC			

**SCREEN**

SIZE(S) OF OPENING (SLOT NO. 1):

DIAMETER (INCHES):

LENGTH (FEET):

MATERIAL AND TYPE:

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

**71 PUMPING TEST**

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 10 GPM

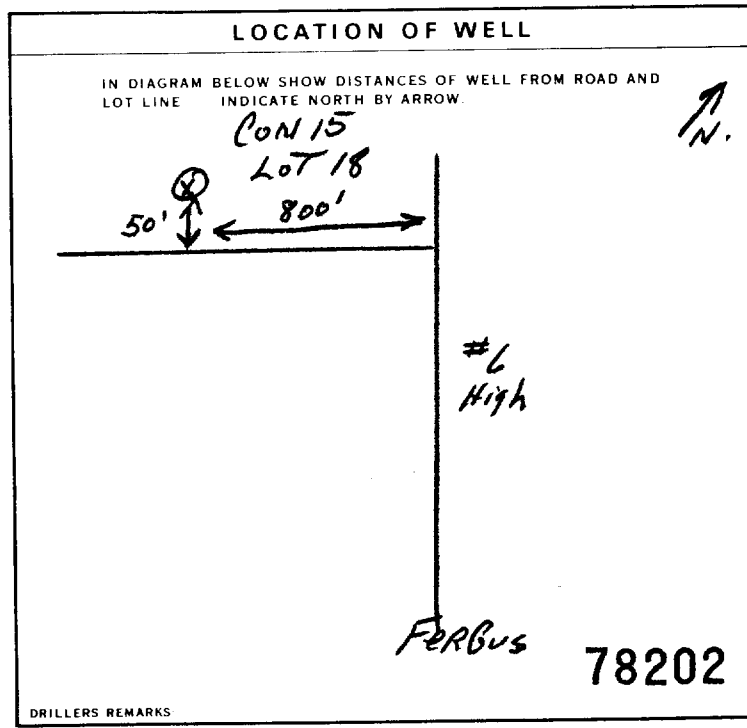
DURATION OF PUMPING: 1 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
74 FEET	100 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		74 FEET			

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 125 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: GRAHAM WELL DRILLING LTD.

WELL CONTRACTOR'S LICENCE NUMBER: 2336

ADDRESS: RR # 5, Rockwood, Ont. N0B-2K0

NAME OF WELL TECHNICIAN: J. HAWKINS

WELL TECHNICIAN'S LICENCE NUMBER: T-0427

SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]

SUBMISSION DATE: DAY 031 MO 05 YR 90

**OFFICE USE ONLY**

DATA SOURCE: 2336

DATE RECEIVED: JUN 11 1990

DATE OF INSPECTION:

INSPECTOR:

REMARKS:

CSS.ES

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

11

6710558

MUNICIP 67009

CON. CON.

115

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: NICHOL CON. BLOCK, TRACT, SURVEY, ETC: XV LOT: 19  
 ADDRESS: 590 VICTORIA TERRACE DATE COMPLETED: 48-53  
 FERGUS ONT NIM 265 DAY: 31 MO: 08 YR: 90

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	FILL			0	8
GR.	CLAY	(S)	(SOFT)	8	10
	SAND	GRAVEL		10	17
GR.	CLAY			17	38
	SILT	CLAY		38	47
GR.	CLAY	STONES		47	85
GR	LIMESTONE			85	89
BR. GR	LIMESTONE			89	279

31 [Scale]

32 [Scale]

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
258-70	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
258	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
19-18	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
258-70	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5"	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	90'3"
5"	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		90'3"	279

**SCREEN**

SIZE(S) OF OPENING (SLOT NO)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

**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: AIR PUMPING RATE: 9 GPM DURATION OF PUMPING: 1 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
60 FEET	90 FEET	15 MINUTES: 90 FEET	30 MINUTES: 90 FEET	45 MINUTES: 90 FEET	60 MINUTES: 90 FEET

IF FLOWING, GIVE RATE: \_\_\_\_\_ PUMP INTAKE SET AT: \_\_\_\_\_ WATER AT END OF TEST: \_\_\_\_\_

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP RECOMMENDED PUMP SETTING: 135 FEET RECOMMENDED PUMPING RATE: 9 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW

LOT 19

LOT 19

CON XV

CON XVI

88137

DRILLERS REMARKS: TWC 12

**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  DEWATERING

**WATER USE**

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

**METHOD OF CONSTRUCTION**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: LANGKIELL DRILLING LTD 3317  
 ADDRESS: RPI HILLSBURGH ONT  
 NAME OF WELL TECHNICIAN: ROY LANG  
 WELL TECHNICIAN'S LICENCE NUMBER: T-0158  
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
 SUBMISSION DATE: DAY 29 MO 12 YR 90

**OFFICE USE ONLY**

DATA SOURCE: 3317 CONTRACTOR: 58-62 DATE RECEIVED: 63-68 80  
 DATE OF INSPECTION: JAN 08 1991 INSPECTOR:  
 REMARKS:  
 CSS.ES

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

11 6710780 67009 CON. COM. 15

COUNTY OR DISTRICT: [redacted] TOWNSHIP: Nichol BOROUGH CITY TOWN VILLAGE: [redacted] BLOCK TRACT SURVEY ETC: CON. LOT: 4  
DATE COMPLETED: DAY 22 MO 10 YR 91  
R# 1 Fergus.

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	DEPTH - FEET	
			FROM	TO
	Top soil		0	1
Brown	clay sand	stones	1	35
Grey	clay sand	gravel	35	110
Brown	clay	gravel	110	180
Grey	clay sand	gravel	180	252
Brown	Rock	Limestone	252	305
total 305'				

5" shoe casing

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
300	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	14
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	19
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	24
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	29
	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS	34

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5"	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	256
5"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		256	305

**SCREEN**

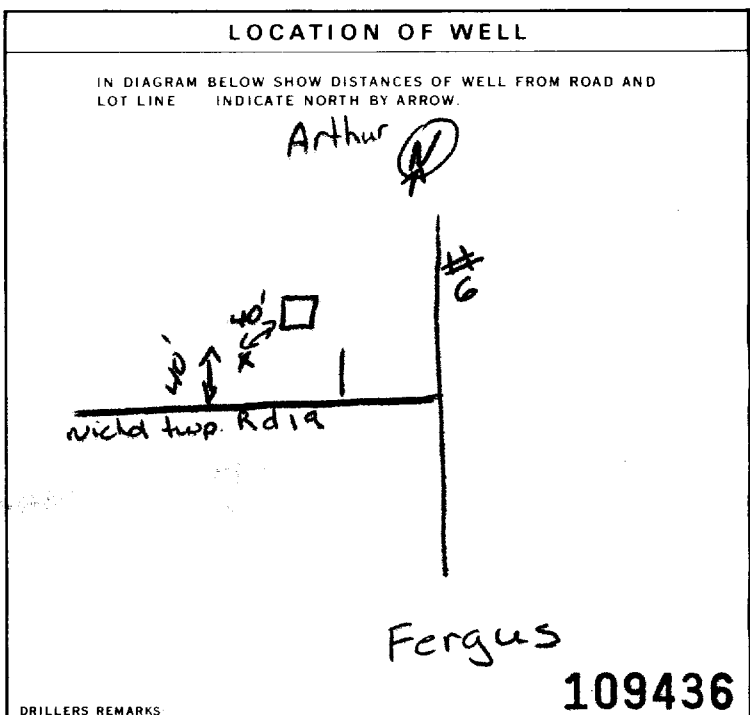
SIZE - S <sub>1</sub> OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
0 - 10-13	20-17	Benseal
18-21	22-25	Annular

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	5 GPM	1 15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
50 FEET	FEET	15 MINUTES 20-24 50 FEET 30 MINUTES 26-28 50 FEET 45 MINUTES 29-31 50 FEET 60 MINUTES 32-34 50 FEET 35-37 50 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP	100 FEET	5 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 8  DEWATERING

**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 CONSTRUCTION**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Hanlon Well Drilling  
 ADDRESS: RR#s Guelph  
 NAME OF WELL TECHNICIAN: Jim Hawkins  
 WELL CONTRACTOR'S LICENCE NUMBER: 2663  
 WELL TECHNICIAN'S LICENCE NUMBER: T-0427  
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
 SUBMISSION DATE: DAY 22 MO 10 YR 91

**OFFICE USE ONLY**

DATA SOURCE: 2663 CONTRACTOR: 2663 DATE RECEIVED: DEC 06 1991  
 DATE OF INSPECTION: INSPECTOR:  
 REMARKS: CSS.ES



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

11 6710877 67009 CON 119  
10 14 15 22 23 24

COUNTY OR DISTRICT: Wellington TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichol CON. BLOCK, TRACT, SURVEY ETC: 19 LOT: PK4 4-53  
DATE COMPLETED: DAY 8 MO July YR. 91  
NAME: R I Ferguson

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BLK	Top soil			0	1
BLK-Bz	Fill			1	6
Bz	Clay - Co. Gravel			6	28
Gz	Clay - Rocks			28	85
Gz	Rock - Limestone			85	315

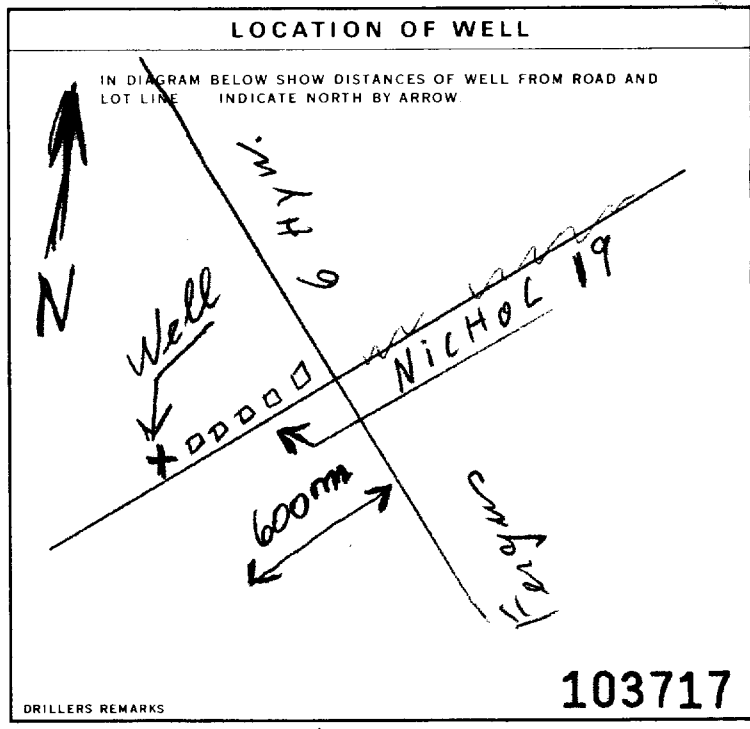
31  
32

41 WATER RECORD			
WATER FOUND AT - FEET	KIND OF WATER		
250-315	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS
	<input type="checkbox"/> SALTY	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD				
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC	1/88	0	87
5	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC		87	315

61 PLUGGING & SEALING RECORD			
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)	
FROM	TO		
10-13	14-17		
18-21	22-25		
26-29	30-33		

71 PUMPING TEST			
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING	
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	5 GPM	4 HOURS	00 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	
83 FEET	120 FEET	15 MINUTES: 95 FEET	30 MINUTES: 85 FEET
		45 MINUTES: 83 FEET	60 MINUTES: 83 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST	
	135 GPM	1 CLEAR <input checked="" type="checkbox"/> CLOUDY <input type="checkbox"/>	
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE	
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	135 FEET	5 GPM	



54 FINAL STATUS OF WELL	
<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING

55-56 WATER USE	
<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED

57 METHOD OF CONSTRUCTION	
<input checked="" type="checkbox"/> CABLE TOOL	<input type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

CONTRACTOR: Rudy's Well Drilling WELL CONTRACTOR'S LICENCE NUMBER: 2332  
ADDRESS: RRI Hillsburg  
NAME OF WELL TECHNICIAN: Rudy Garbotz WELL TECHNICIAN'S LICENCE NUMBER: 0180  
SIGNATURE OF TECHNICIAN/CONTRACTOR: Rudy Garbotz SUBMISSION DATE: \_\_\_\_\_ DAY \_\_\_\_\_ MO \_\_\_\_\_ YR \_\_\_\_\_

OFFICE USE ONLY: DATA SOURCE: 2332 DATE RECEIVED: MAR 16 1992  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_



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

11

6710879

MUNICIPALITY: 67009

CON.

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nichol CON. BLOCK TRACT, SURVEY ETC: [REDACTED] LOT: 25-27  
DATE COMPLETED: Plan 415 Lot 2 DAY 15 MO July YR 91

ING: [REDACTED] RC: [REDACTED] ELEVATION: [REDACTED] RC: [REDACTED] BASIN CODE: [REDACTED]

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Blk-Bn	Top soil - Fill			0	4
Br.	Clay - F. sand -		Lomy	4	32
Gr.	Clay - Rocks			32	88
Gr.	Rock - White Rock			88	180

31 [REDACTED] 32 [REDACTED]

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER					
150-180	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"/>
	2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	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	90

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET

**61 PLUGGING & SEALING RECORD**

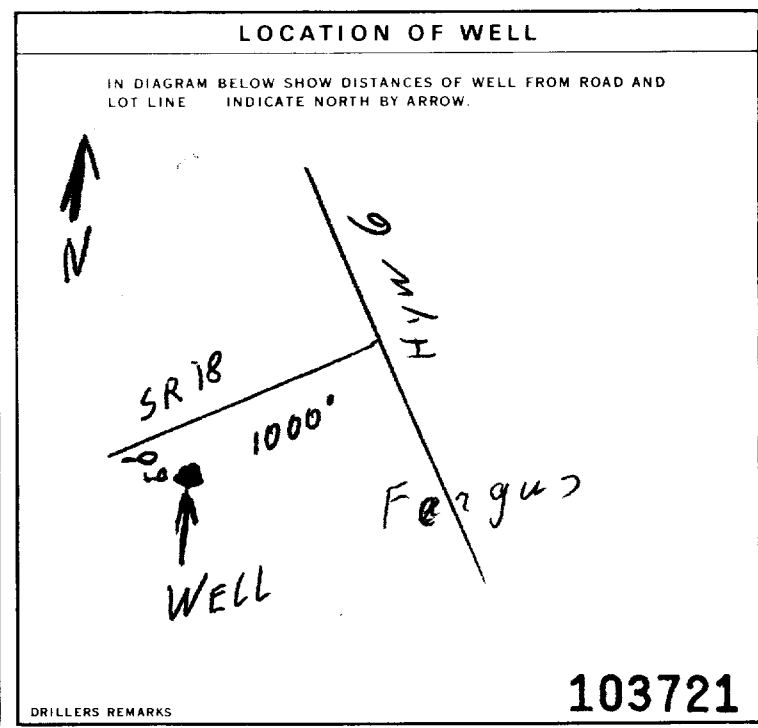
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER ETC.)
FROM TO		
10-13	14-17	
18-21	22-25	
26-29	30-33	

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10 GPM	2 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
35 FEET	80 FEET	15 MINUTES: 40 FEET	30 MINUTES: 35 FEET	45 MINUTES: 35 FEET	60 MINUTES: 35 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
95 GPM	95 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY



**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 8  DEWATERING

**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 CONSTRUCTION**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Rudy's Well Drilling  
WELL CONTRACTOR'S LICENCE NUMBER: 2332  
ADDRESS: BRT Hillsburg  
NAME OF WELL TECHNICIAN: Rudy Garbotz  
WELL TECHNICIAN'S LICENCE NUMBER: 0180  
SIGNATURE OF TECHNICIAN/CONTRACTOR: Rudy Garbotz  
SUBMISSION DATE: DAY MO. YR.

**OFFICE USE ONLY**

DATA SOURCE: 2332 CONTRACTOR: 2332 DATE RECEIVED: MAR 16 1992  
DATE OF INSPECTION: [REDACTED] INSPECTOR: [REDACTED]  
REMARKS: [REDACTED]

CSS.ES

# WATER WELL RECORD

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

11 6711253 67009 CON. 18  
 COUNTY OR DISTRICT: WILKINSON TOWNSHIP, BOROUGH CITY TOWN, VILLAGE: NICHOL TWP CON. BLOCK, TRACT, SURVEY ETC: CON 15 LOT: 18  
 DATE COMPLETED: DAY 29 MO 6 YR 93  
 RC ELEVATION RC BASIN CODE III IV

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BRN	SND	STNS - GRVL		0	6
BRN	CLAY	GRVL		6	15
BRN	SND	STNS		15	25
BRN	SND			25	47
BRN	SND	STNS GRVL		47	52
GREY	SND	GRVL CLAY		52	58
	HARD PAN			58	60
GREY	CLAY	GRVL		60	69
GREY	CLAY	GRVL STNS		69	77
BRN	LMSN		LAYERD	77	81
	GRVL			81	83
GREY	GRVL	CLAY & BOULDERS		83	93

31 BRN + GREY LMSN AT 58' - 60' 93-135

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"/> MINERALS	<input type="checkbox"/> GAS	
133	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5	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	95
5	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		95	135
	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 OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 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 METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS	MINUTES
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10	1	0

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
35	22-24	15 MINUTES: 26-28 30 MINUTES: 29-31 45 MINUTES: 32-34 60 MINUTES: 35-37

IF FLOWING GIVE RATE	PUMP INTAKE SET AT GPM	WATER AT END OF TEST
135	90	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	90	8

#### LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

58' 18" NICHOL

093832

DRILLERS REMARKS

#### FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	8 <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"/> OTHER	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
	11 <input type="checkbox"/> OTHER

#### CONTRACTOR

NAME OF WELL CONTRACTOR: ADVANCED WATER SYSTEMS INC. WELL CONTRACTOR'S LICENCE NUMBER: 6624  
 ADDRESS: 33 HAYS AVE GURBPH  
 NAME OF WELL TECHNICIAN: JEFF ANDERSON WELL TECHNICIAN'S LICENCE NUMBER: 10543  
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY 1 NO 8 YR 93

#### OFFICE USE ONLY

DATA SOURCE: 6624 CONTRACTOR: 6624 DATE RECEIVED: AUG 05 1993  
 DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 CSS.ES

6711273

MUNICIP 67009

CON.

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

11

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Whitby CON. BLOCK, TRACT, SURVEY, ETC: P/3n 89 LOT: 2  
DATE COMPLETED: 48-53 DAY: 24 MO: Sept YR: 73  
ELEVATION: [Redacted] BASIN CODE: [Redacted]

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	3
Gray	Sand	Very fine sand		3	9
=	Sand	Medium sand		9	20

31 [Scale] 32 [Scale]

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER					
8 to 20	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
30"	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	18	0	20
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC			20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC			27-30

**SCREEN**

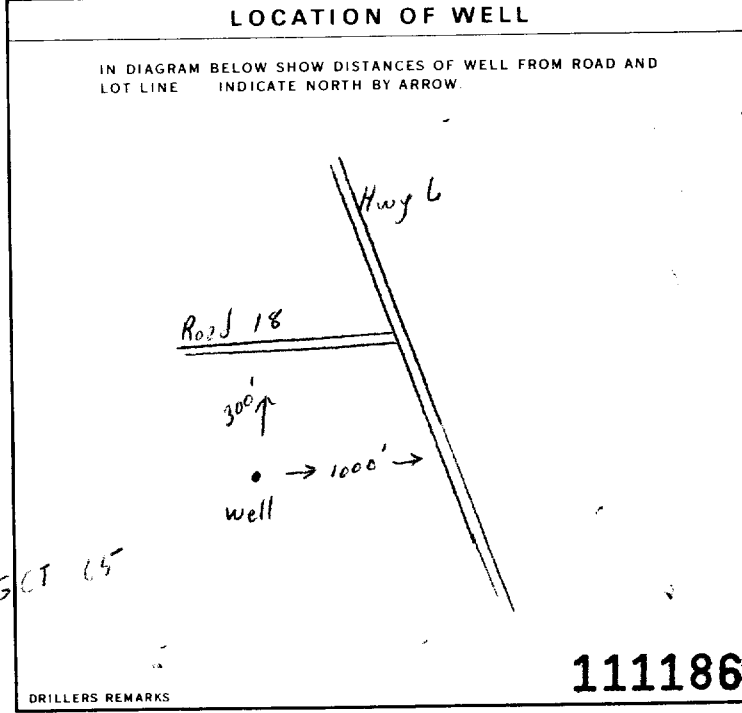
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	GPM	HOURS MIN
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
8 FEET		15 MINUTES 20-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	GPM	FEET <input type="checkbox"/> CLEAR <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	16 FEET	5 GPM



**FINAL STATUS OF WELL**

<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING

**WATER USE**

<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED

**METHOD OF CONSTRUCTION**

<input type="checkbox"/> CABLE TOOL	<input checked="" type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Speedy Water Wells WELL CONTRACTOR'S LICENCE NUMBER: 4854  
ADDRESS: RR#1 St. Catharines  
NAME OF WELL TECHNICIAN: Vic Pidgeon WELL TECHNICIAN'S LICENCE NUMBER: T 332  
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY \_\_\_\_\_ NO. \_\_\_\_\_ YR. \_\_\_\_\_

**OFFICE USE ONLY**

DATA SOURCE: 4854 CONTRACTOR: 4854 DATE RECEIVED: OCT 06 1993  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
CSS.ES

6711379

MUNICIPALITY 67009

CON. 15 16 17 18 19 20 21 22 23 24

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

11

COUNTY OR DISTRICT: [redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Michal CON. BLOCK, TRACT, SURVEY ETC: 18 sidroz LOT: 5  
DATE COMPLETED: 48-53  
DAY: 25 MO: 1 YR: 99  
RC: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ RC: \_\_\_\_\_ BASIN CODE: \_\_\_\_\_

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay			0	1
=	Sand	sandy clay		1	2
=	Sand			2	9
Gray	Sand			9	14
Brown	Clay	Sandy clay		14	19

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER					
9-14	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
30	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC	18	0	19
17-18	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC			20-23
24-25	STEEL GALVANIZED CONCRETE OPEN HOLE PLASTIC			27-30

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	GPM	HOURS: _____ MIN: _____
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
9 FEET	FEET	15 MINUTES: 26-28 FEET 30 MINUTES: 1 FEET 45 MINUTES: 29-31 FEET 60 MINUTES: 32-34 FEET 35-37 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	<input type="checkbox"/> CLEAR <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	16 FEET	2 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

Town of Ferguson  
111190

**FINAL STATUS OF WELL**

**WATER USE**

**METHOD OF CONSTRUCTION**

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Speedy Water Wells  
ADDRESS: Rx #1 St Agatha  
NAME OF WELL TECHNICIAN: Vic Ridgeman  
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]  
WELL CONTRACTOR'S LICENCE NUMBER: 4854  
WELL TECHNICIAN'S LICENCE NUMBER: T0332  
SUBMISSION DATE: \_\_\_\_\_ DAY \_\_\_\_\_ NO \_\_\_\_\_ YR \_\_\_\_\_

**OFFICE USE ONLY**

DATA SOURCE: \_\_\_\_\_ CONTRACTOR: 4854 DATE RECEIVED: FEB 10 1994  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
CSS.ES



6711428

MUNICIP 67009

CON. CON.

115

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [REDACTED] CON. BLOCK, TRACT SURVEY ETC: CON 15 LOT: 19

DATE COMPLETED: DAY 14 MO 6 YR 94

#1 Fergus NIM 2W3

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Fill			0	4
Gray	Sand		wet	4	19
Gray	Silt	clay		19	34
Gray	clay			34	50
Gray	gravel	Sand		50	68
Gray	gravel	Silt		68	74
White	limestone			74	112
Gray	limestone		Crack 114	112	148
Brown	limestone			148	170
White	limestone			170	301

31

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
114	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
198	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS
297	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 5 <input type="checkbox"/> GAS

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6	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	1/8	+1 75
6	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		75 301

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
0	30 Benseal	

**71 PUMPING TEST**

PUMPING TEST METHOD:  AIR  BAILER

PUMPING RATE: 7-8 GPM

DURATION OF PUMPING: 1 HOURS

STATIC LEVEL: 68 FEET

WATER LEVELS DURING PUMPING:

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
26-28	29-31	32-34	35-37

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 160 FEET

RECOMMENDED PUMPING RATE: 6-7 GPM

**LOCATION OF WELL**

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.

Lot 19 x Con 15

500m

Nichol twp

#6 Hwy 94

Fergus 131029

**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 8  DEWATERING

**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 CONSTRUCTION**

1  CABLE TOOL 5  BORING

2  ROTARY (CONVENTIONAL) 6  DIAMOND

3  ROTARY (REVERSE) 7  JETTING

4  ROTARY (AIR) 8  DRIVING

9  AIR PERCUSSION 10  DIGGING 11  OTHER

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Highland Water Wells

WELL CONTRACTOR'S LICENCE NUMBER: 2576

ADDRESS: Box 141 Durlan

NAME OF WELL TECHNICIAN: ERIC WILSON

WELL TECHNICIAN'S LICENCE NUMBER: 70113

SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]

SUBMISSION DATE: DAY 20 MO 6 YR 94

**OFFICE USE ONLY**

DATA SOURCE: 2576

DATE RECEIVED: JUN 30 1994

DATE OF INSPECTION: [REDACTED]

INSPECTOR: [REDACTED]

REMARKS: [REDACTED]

CSS.ES



# WATER WELL RECORD

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

11 6711725 MUNICIPAL 67009 CON. CON. 15

COUNTY OR DISTRICT: WELLINGTON TOWNSHIP, BOROUGH CITY, TOWN VILLAGE: NICHOL (ROLL No. 3-088-30) CON. BLOCK TRACT. SURVEY ETC: CON 15 LOT 25-27: Pt 18

DATE COMPLETED: 48-53 DAY 17 MO 05 YR 95

WELL No. 1 Fergus, Ont. ELEVATION: 203 RC BASIN CODE: II III IV

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			Deepening of existing well		12'
Brown sand		small pebbles	course sand	12'6"	14'8"

31 32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
9'6"	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
36	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	3"	0	12 1/2
30"	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	16	10 1/2	14'8"

### SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 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		

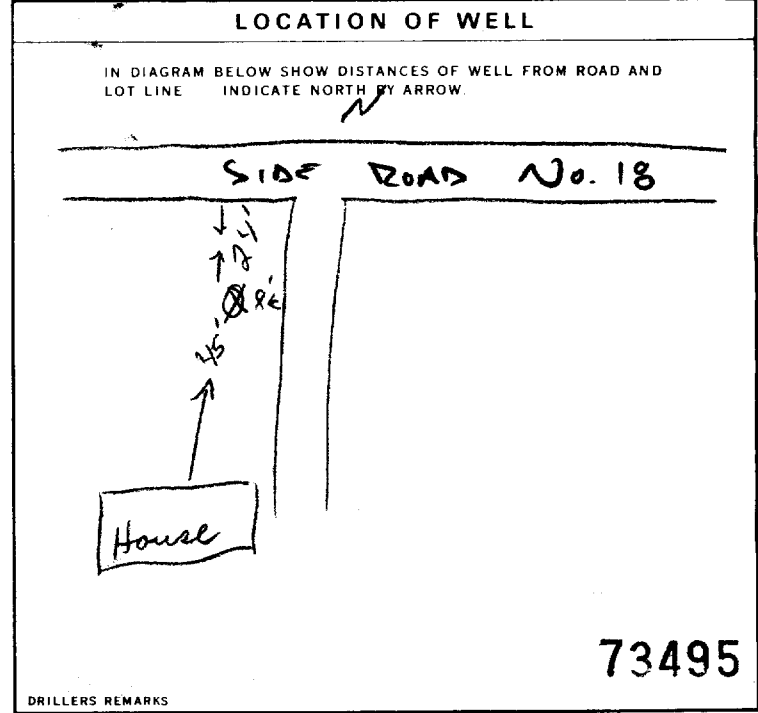
### 71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	10	1

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING PUMPING			
9'6"	12'6"	15 MINUTES: 11'6"	30 MINUTES: 12'	45 MINUTES: 12'6"	60 MINUTES: 12'6"

IF FLOWING, GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST FEET
	12'	

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	12'6"	4 1/2



### FINAL STATUS OF WELL

WATER SUPPLY

### WATER USE

DOMESTIC

### METHOD OF CONSTRUCTION

DIGGING

### CONTRACTOR

NAME OF WELL CONTRACTOR: County Trades Ltd  
WELL CONTRACTOR'S LICENCE NUMBER: 6030  
ADDRESS: RPI Orangeville Ont.  
NAME OF WELL TECHNICIAN: Robert Shirley  
WELL TECHNICIAN'S LICENCE NUMBER: T 0680  
SIGNATURE OF TECHNICIAN/CONTRACTOR: Robert Shirley  
SUBMISSION DATE: DAY 25 MO 05 YR 95

### OFFICE USE ONLY

DATA SOURCE: 6030 CONTRACTOR: 6030 DATE RECEIVED: JUN 06 1995  
REMARKS: COULD NOT LOCATE ORIGINAL W.C. RECORD. JUNE 7/95. AS.

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

11 6711726 MUNICIPAL 67009 CON. 15 LOT 25-27 Pt. 18

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: MICHELE (Roll No. 3-091-00) CON. BLOCK TRACT SURVEY ETC: CON. 15 LOT 25-27 Pt. 18  
 R No. 1 FERGUS ONT. DATE COMPLETED 48-53 DAY 17 MO 05 YR 95  
 BASIN CODE: [REDACTED]

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
			Deepening of existing well		10'
	Basal sand	small pebbles	course sand (getting finer at very bottom)	10'	11'8"
Well is in basement of house					

31 [Scale]

32 [Scale]

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER		
5'10"	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERALS	
		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	
		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	
		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	
		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	
		6 <input type="checkbox"/> GAS	

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
30 1/2"	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	2 2"	0	10
24"	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	16	7'8"	118
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**

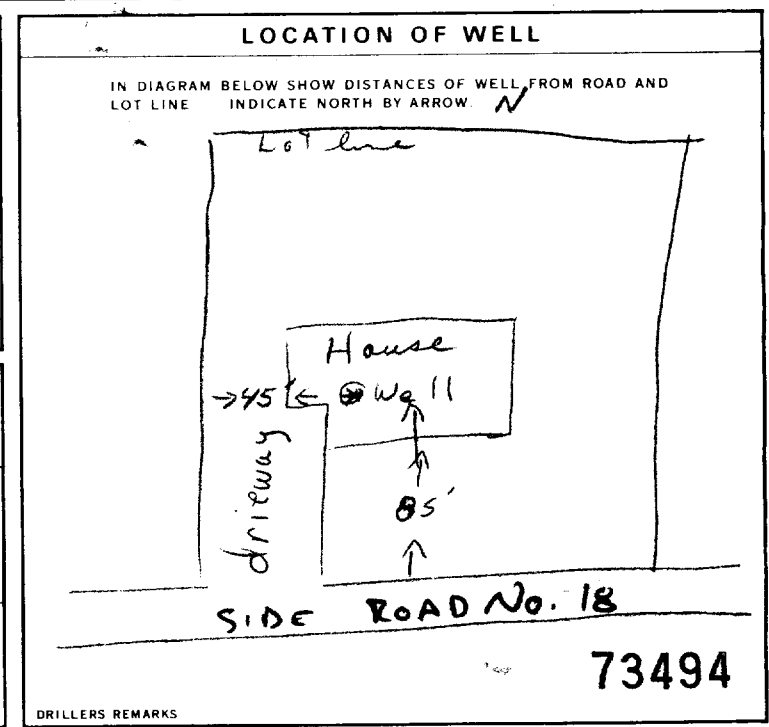
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10 GPM	1 HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
5'8"	8'6"	15 MINUTES: 8'6"
		30 MINUTES: 8'6"
		45 MINUTES: 8'6"
		60 MINUTES: 8'6"
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	9' FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	9' FEET	5 GPM



**FINAL STATUS OF WELL**

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	8 <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"/> OTHER	9 <input type="checkbox"/> NOT USED

**METHOD OF CONSTRUCTION**

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input 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 checked="" type="checkbox"/> DIGGING

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Country Trades Ltd. WELL CONTRACTOR'S LICENCE NUMBER: 6030  
 ADDRESS: RRI Orangeville Ont.  
 NAME OF WELL TECHNICIAN: Robert T. Shirbey WELL TECHNICIAN'S LICENCE NUMBER: T-0680  
 SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY 25 MO 05 YR 95

**OFFICE USE ONLY**

DATA SOURCE: 6030 CONTRACTOR: 6030 DATE RECEIVED: JUN 06 1995  
 DATE OF INSPECTION: [Blank] INSPECTOR: [Blank]  
 REMARKS: COULD NOT LOCATE ORIGINAL W.W. RECORD, JUNE 7/95, AS.

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Mark correct box with a checkmark, where applicable.

11

6712633

Municipality  
67009

Con.  
CON 15

County or District: Wellington Township/Borough/City/Town/Village: Nichol Con block tract survey, etc.: 15 Lot: 19  
Address: RR #1 Fergus N1M2W3 Date completed: 7 day 8 month 98 year

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	<u>Topsoil</u>			<u>0</u>	<u>1</u>
<u>Brown</u>	<u>Sand</u>	<u>gravel</u>		<u>1</u>	<u>25</u>
<u>Gray</u>	<u>clay</u>			<u>25</u>	<u>70</u>
<u>Gray</u>	<u>clay</u>	<u>gravel</u>		<u>70</u>	<u>76</u>
<u>Brown</u>	<u>Limestone</u>			<u>76</u>	<u>83</u>
<u>Gray</u>	<u>Limestone</u>	<u>Brown layers</u>		<u>83</u>	<u>178</u>

**41 WATER RECORD**

Water found at - feet	Kind of water
<u>98</u>	<u>Unfiltered</u>
<u>131</u>	<u>Unfiltered</u>
<u>168</u>	<u>Unfiltered</u>

**51 CASING & OPEN HOLE RECORD**

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
<u>6</u>	<u>Steel</u>	<u>188</u>	<u>+1</u>	<u>79</u>
<u>6</u>	<u>Steel</u>		<u>79</u>	<u>178</u>

**SCREEN**

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

**61 PLUGGING & SEALING RECORD**

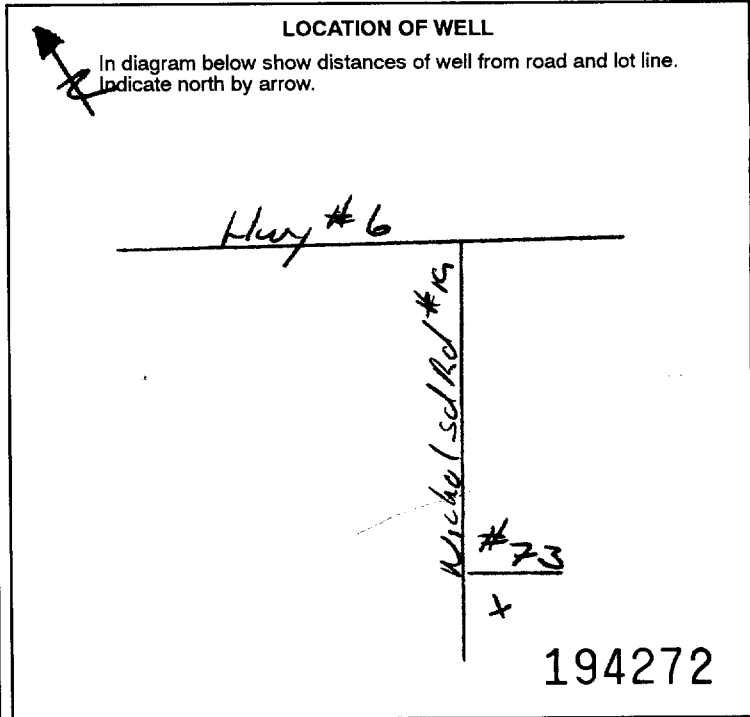
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)
<u>0</u> to <u>40</u>	<u>Benzonal</u>

**71 PUMPING TEST**

Pumping test method: ADA Pumping rate: 7.8 GPM Duration of pumping: 1 hour 18 mins

Static level	Water level end of pumping	Water levels during			
<u>80</u> feet		15 minutes: <u>80</u> feet	30 minutes: <u>80</u> feet	45 minutes: <u>80</u> feet	60 minutes: <u>80</u> feet

Recommended pump type: Deep Recommended pump setting: 150 feet Recommended pump rate: 7 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 used  
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: Highland Water Wells Well Contractor's Licence No.: 8576  
Address: Box 141 Durham N0G1K0  
Name of Well Technician: Nigel Poppleton Well Technician's Licence No.: 72130  
Signature of Technician/Contractor: [Signature] Submission date: 22 mo 8 yr 98

**MINISTRY USE ONLY**

Data source: 2576 Contractor: 2576 Date received: SEP 21 1998  
Date of inspection: \_\_\_\_\_ Inspector: \_\_\_\_\_  
Remarks: \_\_\_\_\_  
CSS. S9

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Mark correct box with a checkmark, where applicable.

11

6712675

Municipality  
67009

Con.  
CON 15

95-98

County or District <b>WELLINGTON</b>	Township/Borough/City/Town/Village <b>NICHOL TWP</b>	Con block tract survey, etc. <b>CON 15</b>	Lot <b>18</b>
Address <b>RR#1 FERGUS, ONT NICHOL RD #18</b>		Date completed <b>13 10 98</b>	
Northings		RC	Elevation
RC		Basin Code	ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	SAND	STONES		0	30
GREY	CLAY	STONES		30	92
BROWN	ROCK			92	135
GREY-BROWN	ROCK			135	180
<b>TOTAL DEPTH 180'</b>					
<b>6" DRIVE SHOE</b>					

31	32
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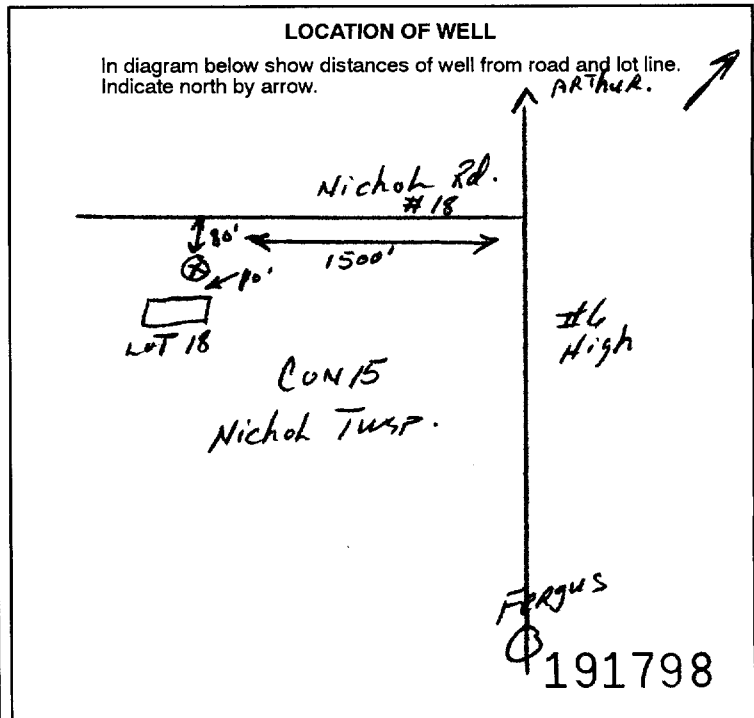
41 WATER RECORD	
Water found at - feet	Kind of water
10-13 <b>170-180</b>	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
15-18	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
20-23	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
25-28	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
30-33	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 <b>6"</b>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	<b>.188</b>	<b>+1</b>	<b>93</b>
17-18 <b>6"</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic			<b>93 180</b>
24-25	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
		inches	feet
	Material and type	Depth at top of screen	
		feet	

61 PLUGGING & SEALING RECORD	
<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)
From To	
10-13 <b>0 25</b>	<b>BENTONITE</b>
18-21	
26-29	

71 PUMPING TEST	
Pumping test method <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer	Pumping rate <b>6</b> GPM
Static level <b>67</b> feet	Water level end of pumping <b>105</b> feet
Water levels during 15 minutes <b>90</b> feet	30 minutes <b>98</b> feet
45 minutes <b>103</b> feet	60 minutes <b>105</b> feet
If flowing give rate GPM	Pump intake set at feet
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting <b>130</b> feet
	Recommended pump rate <b>6</b> GPM



FINAL STATUS OF WELL			
<input checked="" type="checkbox"/> Water supply	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Unfinished	
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	
<input type="checkbox"/> Test hole	<input type="checkbox"/> Abandoned (Other)		
<input type="checkbox"/> Recharge well	<input type="checkbox"/> Dewatering		
WATER USE			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply		
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning		
METHOD OF CONSTRUCTION			
<input type="checkbox"/> Cable tool	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Driving	
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other	
<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Jetting		

Name of Well Contractor <b>GRAHAM WELL DRILLING LTD</b>	Well Contractor's Licence No. <b>2336</b>
Address <b>RR#5 ROCKWOOD, ONT. NOB-2K0</b>	
Name of Well Technician <b>Jim Wilson</b>	Well Technician's Licence No. <b>T-1924</b>
Signature of Technician/Contractor <i>R. Graham</i>	Submission date <b>030 010 98</b>

MINISTRY USE ONLY	Data source	Contractor <b>2336</b>	Date received <b>OCT 28 1998</b>
	Date of inspection	Inspector	
	Remarks <b>CSS. ES9</b>		

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

11

6712757

Municipality 67009 Con. CON 14

124-98

County or District: WELLINGTON  
Township/Borough/City/Town/Village: NICHOL TWP  
Con block tract survey, etc.: CON 14  
Lot: 14  
Address: RR#1 FERGUS, ONT. NIM-2W3  
Date completed: 23 11 98  
Basin Code: ii iii iv

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	CLAY	SAND		0	30
GREY	CLAY	STONES		30	87
BROWN	ROCK			87	220
TOTAL DEPTH				220'	
6" DRIVE SHOE.					

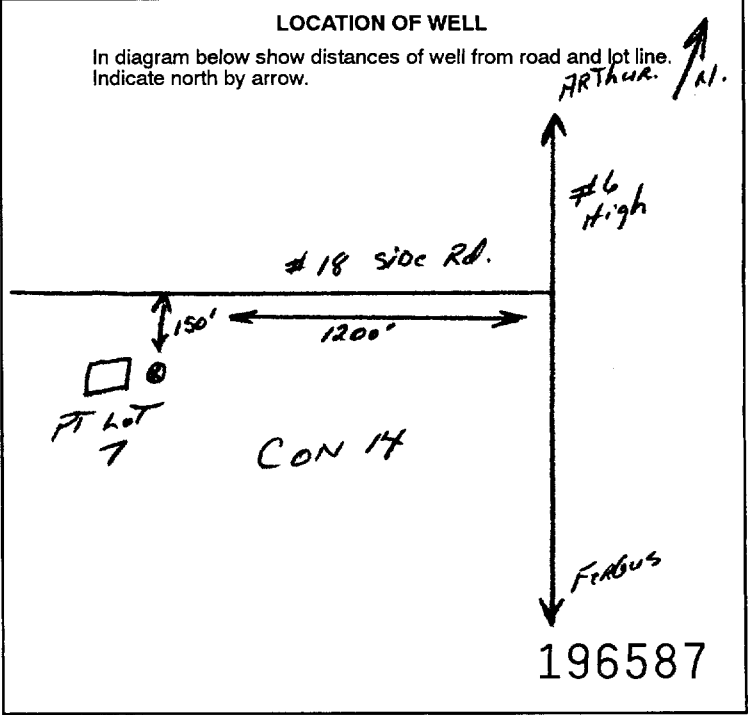
Water found at - feet	Kind of water
10-13 160	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
15-18 200-220	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
20-23	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
25-28	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6"	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	+1	88
6"	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		88	220
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

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type		Depth at top of screen feet

Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0	23	BENTONITE
18-21	22-25	
26-29	30-33	

Pumping test method	Pumping rate	Duration of pumping
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	10 GPM	1 Hours 0 Mins
Static level	Water level end of pumping	Water levels during
67 feet	111 feet	15 minutes: 85 feet 30 minutes: 97 feet 45 minutes: 108 feet 60 minutes: 111 feet
Recommended pump type	Recommended pump setting	Recommended pump rate
1 <input type="checkbox"/> Shallow 2 <input checked="" type="checkbox"/> Deep	130-140 feet	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  Abandoned (Other)  
8  Dewatering  
9  Unfinished  
10  Replacement well

WATER USE

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

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

Name of Well Contractor: GRAHAM WELL DRILLING LTD  
Well Contractor's Licence No.: 2336  
Address: RR#5 ROCKWOOD, ONT. NOB-2K0  
Name of Well Technician: Jim Wilson  
Well Technician's Licence No.: T-1924  
Signature of Technician/Contractor: [Signature]  
Submission date: 03 01 98

MINISTRY USE ONLY

Data source: 2336  
Date received: DEC 14 1998  
Date of inspection: \_\_\_\_\_  
Inspector: \_\_\_\_\_  
Remarks: \_\_\_\_\_

CSS. ES9

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Mark correct box with a checkmark, where applicable.

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6712767

Municipality  
67009

Con. 10 14 15 22 23 24

County of District Windsor-Essex Township/Borough/City/Town/Village Windsor Con block tract survey, etc. Lot Plan 71 E

Address RR#1 Fergus NIM 203 Date completed 30 10 98  
day month year

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	Top Soil			0	1
Brown	Clay	Sand, Stones		1	45
Brown	Clay	Sand, Gravel		45	64
Brown	Limestone	Sand, Gravel		64	81
TOTAL = 81 FT.					

6" CASING DRIVE PIPE

41 WATER RECORD

Water found at - feet	Kind of water
75	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 14 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 15 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas 16
81	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 19 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 20 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas 21
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 24 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 25 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas 26
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 29 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 30 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas 31
	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 34 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 35 5 <input type="checkbox"/> Gas 6 <input type="checkbox"/> Gas 36

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6"	1 <input checked="" type="checkbox"/> Steel 12 2 <input type="checkbox"/> Galvanized 13 3 <input type="checkbox"/> Concrete 14 4 <input type="checkbox"/> Open hole 15 5 <input type="checkbox"/> Plastic 16		11	64
6"	1 <input type="checkbox"/> Steel 19 2 <input type="checkbox"/> Galvanized 20 3 <input type="checkbox"/> Concrete 21 4 <input type="checkbox"/> Open hole 22 5 <input type="checkbox"/> Plastic 23		64	81
	1 <input type="checkbox"/> Steel 26 2 <input type="checkbox"/> Galvanized 27 3 <input type="checkbox"/> Concrete 28 4 <input type="checkbox"/> Open hole 29 5 <input type="checkbox"/> Plastic 30	REPERATED NINE		

SCREEN

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

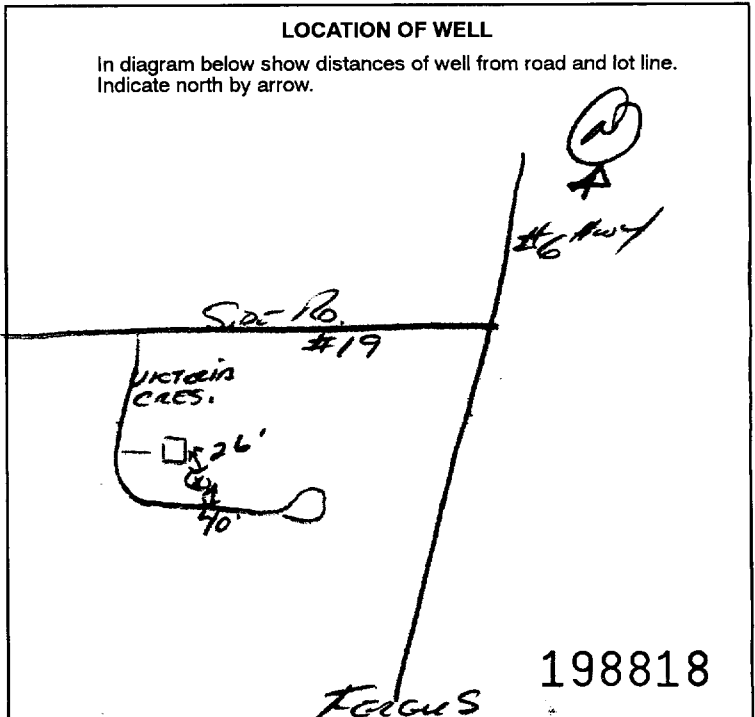
Material and type \_\_\_\_\_ Depth at top of screen \_\_\_\_\_ feet

61 PLUGGING & SEALING RECORD

Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0	20	SEWSEAL
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	4 GPM	3 Hours
Static level	Water level end of pumping	Water levels during
40 feet	75 feet	15 minutes: 50 feet, 30 minutes: 75 feet, 45 minutes: 75 feet, 60 minutes: 75 feet
If flowing give rate	Pump intake set at	Water at end of test
	79 feet	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy
Recommended pump type	Recommended pump setting	Recommended pump rate
<input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		4 GPM



FINAL STATUS OF WELL

1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

WATER USE

1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not used
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION

1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

Name of Well Contractor Shannon & Dinning Well Contractor's Licence No. 2663

Address RR#5 Guelph Ont. G5Z

Name of Well Technician Don R. Brown Well Technician's Licence No. 7-0590

Signature of Technician/Contractor [Signature] Submission date 01 12 98  
day mo yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	2663	DEC 21 1998
Date of inspection	Inspector	
Remarks		
	GSS. ES9	

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Mark correct box with a checkmark, where applicable.

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6712890

Municipality 67009

Con. COM 15

County or District: Wellington Township/Borough/City/Town/Village: Nichol Con block tract survey, etc.: CON/5 Lot: 18

Address: RR #1 Fergus N 1M 2W3 #0024 Date completed: 20 day, 01 month, 99 year

21

Northings: 10, 12, 17, 18, 24, 25, 26, 30, 31, 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	<u>Topsoil</u>			<u>0</u>	<u>1</u>
<u>Brown</u>	<u>Clay</u>			<u>1</u>	<u>27</u>
<u>Gray</u>	<u>Clay</u>			<u>27</u>	<u>138</u>
<u>Brown</u>	<u>Silty clay</u>	<u>gravel</u>		<u>138</u>	<u>240</u>
<u>Brown</u>	<u>Limestone</u>	<u>silt layers</u>		<u>240</u>	<u>252</u>
<u>Light Brown</u>	<u>Limestone</u>			<u>252</u>	<u>318</u>

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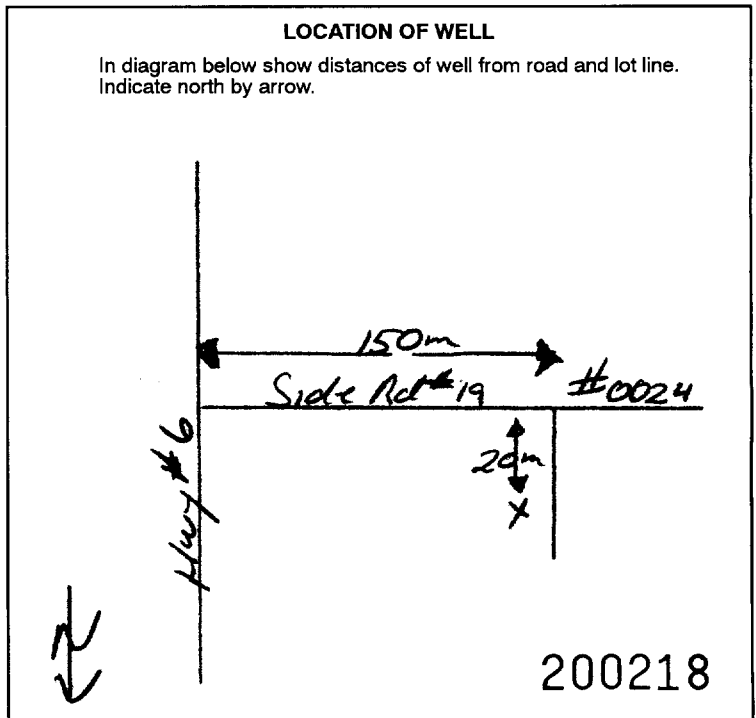
41 WATER RECORD			
Water found at - feet	Kind of water		
10-13 <u>302</u>	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
15-18	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
20-23	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
25-28	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	34

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 <u>6</u>	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	<u>.188</u>	<u>+1</u>	<u>254</u>
17-18 <u>6</u>	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			<u>254 318</u>
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	Sizes of opening (Slot No.)	Diameter	Length
		inches	feet
			Depth at top of screen
			feet

61 PLUGGING & SEALING RECORD			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13 <u>0</u>	14-17 <u>45</u>	<u>Benseal</u>	
18-21	22-25		
26-29	30-33		

71 PUMPING TEST		Pumping rate	Duration of pumping
1 <input type="checkbox"/> Pump 2 <input checked="" type="checkbox"/> Bailor		<u>3-4</u> GPM	..... Hours ..... Mins
Static level <u>118</u> feet	Water level end of pumping ..... feet	Water levels during	1 <input type="checkbox"/> Pumping 2 <input checked="" type="checkbox"/> Recovery
15 minutes <u>15</u> feet	30 minutes <u>15</u> feet	45 minutes <u>15</u> feet	60 minutes <u>190</u> feet
If flowing give rate ..... GPM	Pump intake set at ..... 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 <u>250</u> feet	Recommended pump rate <u>3</u> GPM	



FINAL STATUS OF WELL			
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		

WATER USE			
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not used	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

Name of Well Contractor <u>Highland Water Works</u>	Well Contractor's Licence No. <u>2576</u>
Address <u>Box 141 Durham NOG 1K0</u>	
Name of Well Technician <u>Nigel Popstefan</u>	Well Technician's Licence No. <u>72130</u>
Signature of Technician/Contractor <u>[Signature]</u>	Submission date day <u>30</u> no <u>01</u> yr <u>99</u>

MINISTRY USE ONLY	Data source	Contractor	Date received
		<u>2576</u>	<u>FEB 05 1999</u>
	Date of inspection	Inspector	
Remarks	<u>CSS.ES9</u>		



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Mark correct box with a checkmark, where applicable.

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6713080

Municipality 67009 Con. CON 15

57-99

County or District: WELLINGTON  
Township/Borough/City/Town/Village: NICHOL TWP.  
Con block tract survey, etc.: CON 15  
Lot: 18  
Address: 0069 NICHOL RD #18 RR#1 FERGUS ONT.  
Date completed: 17 08 99

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
BROWN	SAND	STONES		0	30
GREY	CLAY	STONES		30	91
BROWN	ROCK			91	115
GREY	ROCK			115	130
GREY-BROWN	ROCK			130	180'
TOTAL DEPTH				180'	
6" DRIVE SHOE					

31  
32

41 WATER RECORD

Water found at - feet	Kind of water
160-180	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty 3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6"	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	+1	92
6"	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		92	180

SCREEN

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

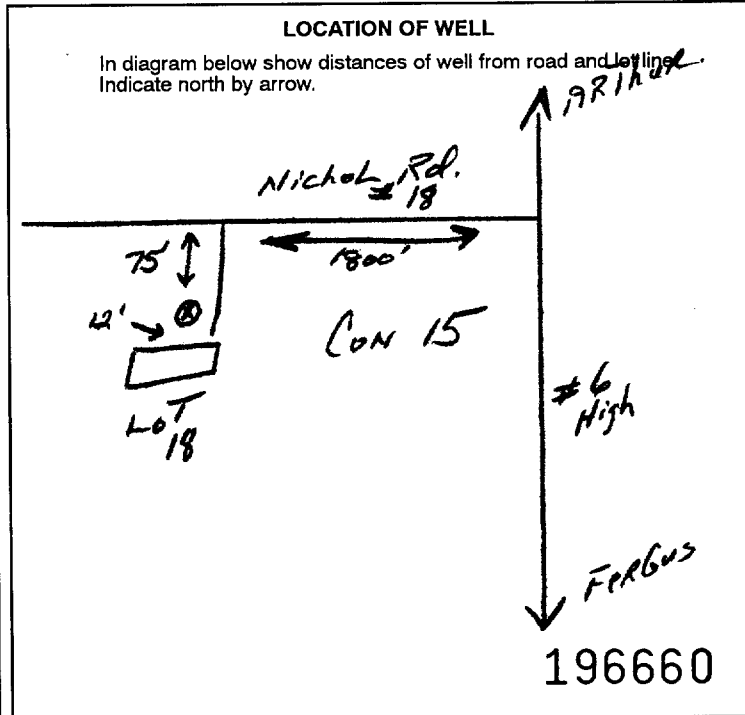
61 PLUGGING & SEALING RECORD

Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
0	25	BENTONITE

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	15 GPM	17-18 Hours 0 Mins

Static level	Water level end of pumping	Water levels during			
46 feet	98 feet	15 minutes: 63 feet	30 minutes: 78 feet	45 minutes: 88 feet	60 minutes: 98 feet



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  Abandoned (Other)  
8  Dewatering

9  Unfinished  
10  Replacement well

WATER USE

1  Domestic  
2  Stock  
3  Irrigation  
4  Industrial

5  Commercial  
6  Municipal  
7  Public supply  
8  Cooling & air conditioning

9  Not used  
10  Other

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

Name of Well Contractor: GRAHAM WELL DRILLING LTD  
Well Contractor's Licence No.: 2336  
Address: RR#5 ROCKWOOD, ONT. NOB-2K0  
Name of Well Technician: JIM WILSON  
Well Technician's Licence No.: T-1924  
Signature of Technician/Contractor: R. Graham  
Submission date: 031 08 99

MINISTRY USE ONLY

Data source: 2336  
Contractor: 2336  
Date received: SEP 08 1999  
Date of inspection: \_\_\_\_\_  
Inspector: \_\_\_\_\_  
Remarks: \_\_\_\_\_

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

6714246

Municipality 67009 Con. 15

County or District: [redacted] Township/Borough/City/Town/Village: NICHOL  
 Address: COOTH NICHOL RD #19 FERGUS  
 Date completed: 06 10 02  
 Con block tract survey, etc. 15 Lot 147

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Black	Top Soil			0	2
Brown	Clay	STONES		2	84
BEIGE	LIMESTONE		SOFT + BEDROCK	84	87
BEIGE	LIMESTONE			87	185
TOTAL = 185 FT					
6 1/4" CASING DRIVE SHOE					

31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

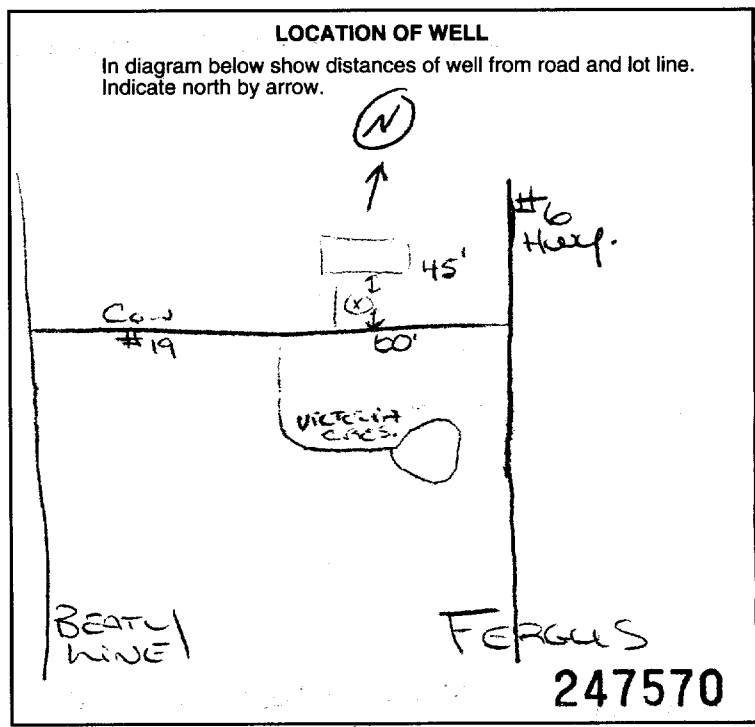
41 WATER RECORD			
Water found at - feet	Kind of water		
185	1 <input checked="" type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	14
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	15
		5 <input type="checkbox"/> Gas	16
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	19
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	20
		5 <input type="checkbox"/> Gas	21
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	24
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	25
		5 <input type="checkbox"/> Gas	26
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	29
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	30
		5 <input type="checkbox"/> Gas	31
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	34
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	35
		5 <input type="checkbox"/> Gas	36

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	.188 + 1/4	87	13-16
	2 <input type="checkbox"/> Galvanized			
	3 <input type="checkbox"/> Concrete			
	4 <input type="checkbox"/> Open hole			
	5 <input type="checkbox"/> Plastic			
	1 <input type="checkbox"/> Steel		87	20-23
	2 <input type="checkbox"/> Galvanized			
	3 <input type="checkbox"/> Concrete			
	4 <input type="checkbox"/> Open hole			
	5 <input type="checkbox"/> Plastic			
	1 <input type="checkbox"/> Steel			27-30
	2 <input type="checkbox"/> Galvanized			
	3 <input type="checkbox"/> Concrete			
	4 <input type="checkbox"/> Open hole			
	5 <input type="checkbox"/> Plastic			

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
	31-33	34-38	39-40
		inches	feet
	Material and type	Depth at top of screen	
		feet	

61 PLUGGING & SEALING RECORD		
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0-13	0-13	BENSEAL
18-21	22-25	
26-29	30-33	

71 PUMPING TEST			
Pumping test method	Pumping rate	Duration of pumping	
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	8 GPM	15-16 Hours	17-18 Mins
Static level	Water level end of pumping	Water levels during	
19-21	22-24	15 minutes	30 minutes
97 feet	141 feet	111 feet	133 feet
		45 minutes	60 minutes
		139 feet	141 feet
If flowing give rate		Pump intake set at	Water at end of test
38-41 GPM		feet	42
Recommended pump type		Recommended pump rate	
1 <input type="checkbox"/> Shallow 2 <input checked="" type="checkbox"/> Deep		160 feet	



54 FINAL STATUS OF WELL		
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

55-56 WATER USE		
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

57 METHOD OF CONSTRUCTION		
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

Name of Well Contractor LANKEN WELL DRILLING LTD	Well Contractor's Licence No. 2663
Address R.R.#5 GUELPH ONT N1H 6J2	
Name of Well Technician JOHN WHITNEY	Well Technician's Licence No. T-2790
Signature of Technician/Contractor	Submission date 01 11 02

MINISTRY USE ONLY	Data source 2663	Date received OCT 23 2002
	Date of inspection	Inspector
	Remarks CSS.ES2	

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

11  
1 2

6714247

Municipality  
67009

Con. 15 22 23 24

County or District: WATERLOO Township/Borough/City/Town/Village: NICHOL Con block tract survey, etc.: Plan 2 Lot: 8

Address: RR#1 FERGUS ONT. NIM 2W3 Date completed: 09 day 10 month 02 year

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	TOP SOIL			0	2
Brown	SAND			2	27
Brown	CLAY			27	74
Brown	LIMESTONE		SOFT + BROKEN	74	78
Brown	LIMESTONE			78	245
TOTAL = 245					
6 1/4" DIA CASING DRIVE SHAFT					

31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

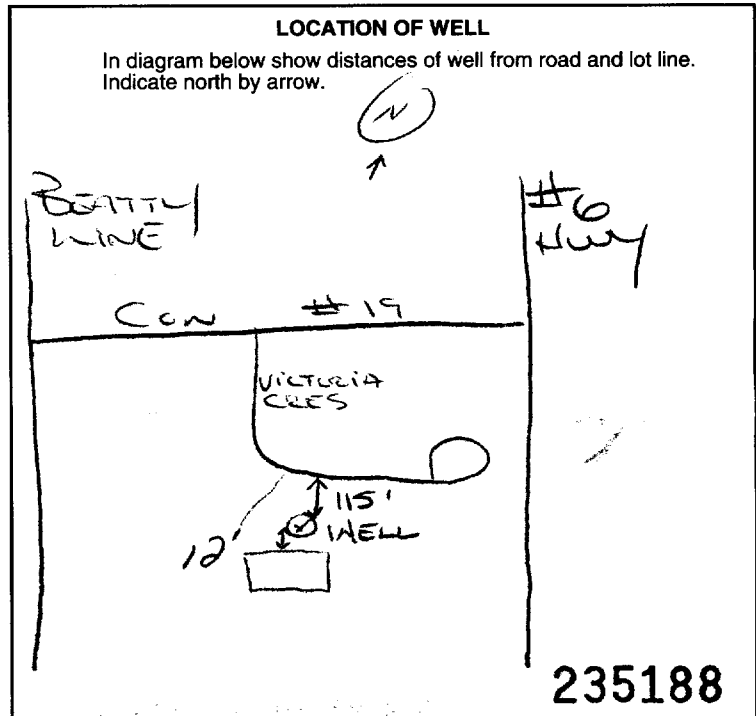
41 WATER RECORD			
Water found at - feet	Kind of water		
200	1 <input checked="" type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	14 <input type="checkbox"/> Minerals
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	6 <input type="checkbox"/> Gas
245	1 <input checked="" type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	19 <input type="checkbox"/> Minerals
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	6 <input type="checkbox"/> Gas
UNTESTED	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	24 <input type="checkbox"/> Minerals
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	6 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	29 <input type="checkbox"/> Minerals
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	6 <input type="checkbox"/> Gas
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	34 <input type="checkbox"/> Minerals
	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	+1	78
5 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		64	91
5 1/2"	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		91	245

SCREEN	Sizes of opening (Slot No.)	Diameter	Length
		inches	feet
	Material and type	Depth at top of screen	
		feet	

61 PLUGGING & SEALING RECORD		
<input checked="" type="checkbox"/> Annular space <input type="checkbox"/> Abandonment		
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0	20	BENSEAL
18-21	22-25	
26-29	30-33	

71 Pumping test method		Pumping rate	Duration of pumping
1 <input checked="" type="checkbox"/> Pump	2 <input type="checkbox"/> Bailor	6 GPM	1 Hours 15 Mins
Static level	Water level end of pumping	Water levels during	
92 feet	108 feet	15 minutes	30 minutes
		100 feet	106 feet
		45 minutes	60 minutes
		108 feet	108 feet
If flowing give rate	Pump intake set at	Water at end of test	
		<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
Recommended pump type	Recommended pump setting	Recommended pump rate	
<input checked="" type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	200 feet	6-8 GPM	



FINAL STATUS OF WELL			
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		
WATER USE			
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		
METHOD OF CONSTRUCTION			
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

Name of Well Contractor <u>WATERLOO WELL DRILLING</u>	Well Contractor's Licence No. <u>2663</u>
Address <u>RR#5 GUELPH NIM 6J2</u>	
Name of Well Technician <u>JOHN HARTNEY</u>	Well Technician's Licence No. <u>T-2790</u>
Signature of Technician/Contractor	Submission date <u>01 11 02</u> day mo yr

MINISTRY USE ONLY	Data source <u>2663</u>	Contractor <u>2663</u>	Date received <u>OCT 23 2002</u>
	Date of inspection	Inspector	
	Remarks		

**Instructions for Completing Form**

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- 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 1/10<sup>th</sup> of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality) **WELLINGTON** Township **CENTER WELLINGTON** Lot **6** Concession **PLAN 71**  
 RR#/Street Number/Name **0953 ST DAVID ST NORTH** City/Town/Village **FERGUS** Site/Compartment/Block/Tract etc.  
 GPS Reading NAD **83** Zone **17** Easting **548814** Northing **4840415** Unit Make/Model 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 From	Metres To
BROWN	TOP-SOIL			0	0.3
BROWN	SAND			0.3	1.52
BROWN	SAND			1.52	2.43
GRAY	SAND			2.43	3.04
GRAY	CLAY	STONES,		3.04	9.44

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	4.57	121.92	91.44	Concrete	7.62	0	4.57	Pump intake set at - (metres)	1		1	
4.57	9.44	91.28	60.96	Concrete	1.8	4.41	9.44	Pumping rate - (litres/min)	2		2	
Water Record			Screen				Test of Well Yield (continued)					
Water found at Metres	Kind of Water		Outside diam	Material	Slot No.	If flowing give rate - (litres/min)						
1.52 m	Fresh					20 20						
2.43 m	Fresh					25 25						
	Sulphur		No Casing or Screen				If pumping discontinued, give reason					
	Minerals		Open hole				NO PUMPABLE WATER ON COMPLETION					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							60 60					

**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	2.65	HOLE PLUG	37 BAGS
2.65	9.44	FILTER SAND	

**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

**Well Contractor/Technician Information**

Name of Well Contractor **JOHNSON & BARTZ** Well Contractor's Licence No. **3030**  
 Business Address (street name, number, city etc.) **19 MACBRIDE COURT**  
 Name of Well Technician (last name, first name) **AVET DARC** Well Technician's Licence No. **T2488**  
 Signature of Technician/Contractor *[Signature]* Date Submitted **APR 16 2004**

**Location of Well**

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

VACANT LOT.

OWN TREE LINE

APPROX 45 m

ST DAVID ST NORTH HWY 6

Audit No. **Z 07694** Date Well Completed **2884 3 10**

Was the well owner's information package delivered?  Yes  No Date Delivered **YYYY MM DD**

**Ministry Use Only**

Data Source Contractor **3030**  
 Date Received **APR 16 2004** Date of Inspection **YYYY MM DD**  
 Remarks **6714852** Well Record Number



Well Tag Number 1005625

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Ministry Use Only

Address of Well Location (County/District/Municipality) WELLINGTON, Township NICHOL, Lot 19, Concession 15, RR#/Street Number/Name 0002 BURNETT CR, City/Town/Village FERGUS, Site/Compartment/Block/Tract etc., GPS Reading NAD 83, Zone 17, Easting 548566, Northing 4839879, Unit Make/Model GARMIN ETREX, Mode of Operation: Undifferentiated

Log of Overburden and Bedrock Materials (see instructions)

Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To. Rows include BROWN SAND, GREY CLAY, TAN LIMESTONE, BROWN, and TAN + BROWN.

TOTAL DEPTH - 170'

Construction Record and Test of Well Yield sections. Includes Hole Diameter table, Construction Record table (Casing, Screen), Water Record table, and Test of Well Yield table with pumping test results.

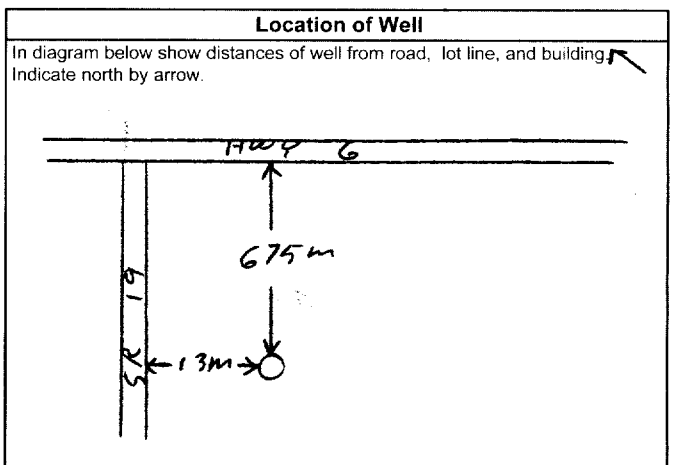
Plugging and Sealing Record section. Includes table for Depth set at, Material and type (BENTONITE SLURRY), and Volume Placed.

Method of Construction section. Includes checkboxes for Cable Tool, Rotary (conventional), Rotary (reverse), Rotary (air), Air percussion, Boring, Diamond, Jetting, Driving, Digging, and Other.

Water Use section. Includes checkboxes for Domestic, Stock, Irrigation, Industrial, Commercial, Municipal, Public Supply, Not used, and Cooling & air conditioning.

Final Status of Well section. Includes checkboxes for Water Supply, Observation well, Test Hole, Recharge well, Abandoned, insufficient supply, Abandoned, poor quality, Unfinished, Dewatering, Replacement well, and Abandoned, (Other).

Well Contractor/Technician Information section. Includes Name of Well Contractor (MEADOWBANK DRILLING SERVICES), Business Address (RR 1 ELORA ONT N0B1S0), Name of Well Technician (JIM DROADFOOT), and Signature.



Audit No. Z 05717, Date Well Completed 04 02 24, Was the well owner's information package delivered? Yes

Ministry Use Only section. Includes Data Source, Date Received (JUN 10 2004), Date of Inspection, Contractor (6865), and Well Record Number (6714908).

**Instructions for Completing Form**

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- **All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.**
- Please print clearly in blue or black ink only.

**Ministry Use Only**

**Well Owner's Information and Location of Well Information**

MUN		CON		LOT	
-----	--	-----	--	-----	--

Address of Well Location (County/District/Municipality) **WELLINGTON COUNTY** Township **FERGUS** Lot \_\_\_\_\_ Concession \_\_\_\_\_  
 RR#/Street Number/Name **930 ST. DAVID ST. N.** City/Town/Village **FERGUS** Site/Compartment/Block/Tract etc. \_\_\_\_\_  
 GPS Reading NAD **83** Zone **17** Easting **549049** Northing **4840338** Unit Make/Model **MAGELLAN** 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 From	Metres To
<b>ABANDONMENT.</b>					

**Hole Diameter**

Depth From	Metres To	Diameter Centimetres
0	3.6	21

**Water Record**

Water found at **1.8** 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

**Construction Record**

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
<b>Casing</b>				
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
<b>No Casing or Screen</b>				
	<input type="checkbox"/> 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			
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. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. _____ metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

**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	3.6	BENTONITE CIPS	

**Location of Well**

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

**SEE ATTACHED MAP.**

**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 **ABANDONMENT**  
 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 44249** Date Well Completed **2006 03 31**

Was the well owner's information package delivered?  Yes  No Date Delivered \_\_\_\_\_

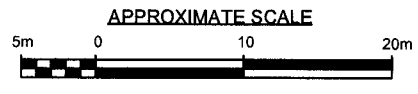
**Well Contractor/Technician Information**

Name of Well Contractor **GEO-ENVIRONMENTAL DRILLING I.C. 6609** Well Contractor's Licence No. \_\_\_\_\_  
 Business Address (street name, number, city etc.) **340 MARKET DR., MILTON, ON**  
 Name of Well Technician (last name, first name) **BARTLEY, ANDREW** Well Technician's Licence No. **7-3110**  
 Signature of Technician/Contractor **[Signature]** Date Submitted **2006 03 31**

**Ministry Use Only**

Data Source \_\_\_\_\_ Contractor **6607**  
 Date Received **APR 19 2006** DD Date of Inspection \_\_\_\_\_ YYYY MM DD  
 Remarks \_\_\_\_\_ Well Record Number \_\_\_\_\_

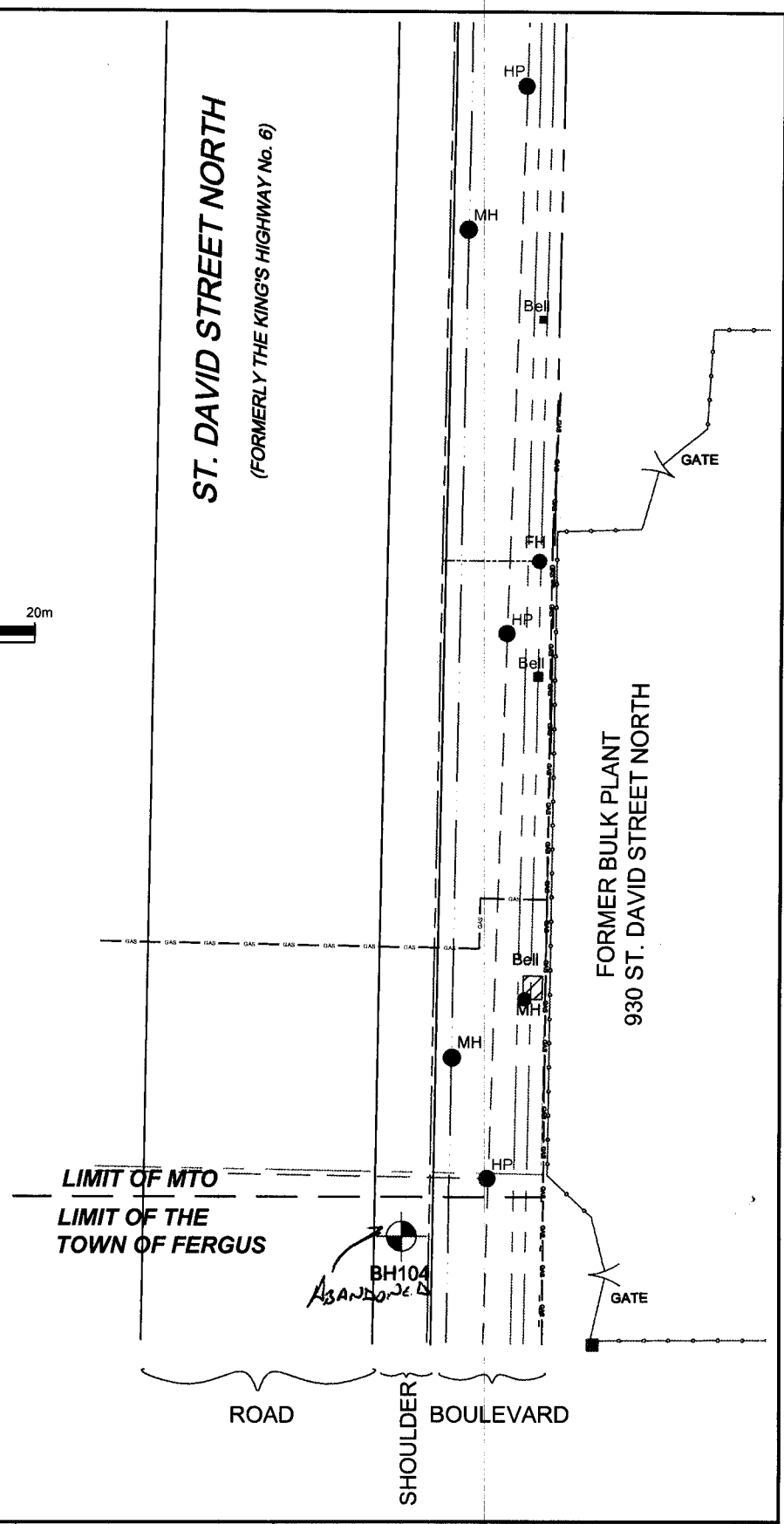
TRACEY



**LEGEND**

- Property Boundary
- Fenceline
- Overhead Hydro Wires
- GAS — Natural Gas Line
- Watermain
- Sewer
- Cable Banks - Fiber Optic
- FH Fire Hydrant (Temporary Bench Mark)
- Bell Bell Box
- MH Sewer Manhole
- HP Hydro Pole
- Off-Site Borehole Equipped with Monitoring Well (AMEC, April 2003)
- MTO Ministry of Transportation of Ontario

FOR INFORMATION PURPOSES ONLY.

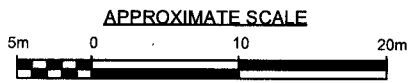


	Date:	Approximate Scale:	Project No.:
	February 2005	1 : 500	
 930 St. David Street North Fergus, Ontario	Drawn by:	Approved by:	Figure No.: 3 Borehole Location Plan
	KH	PN	

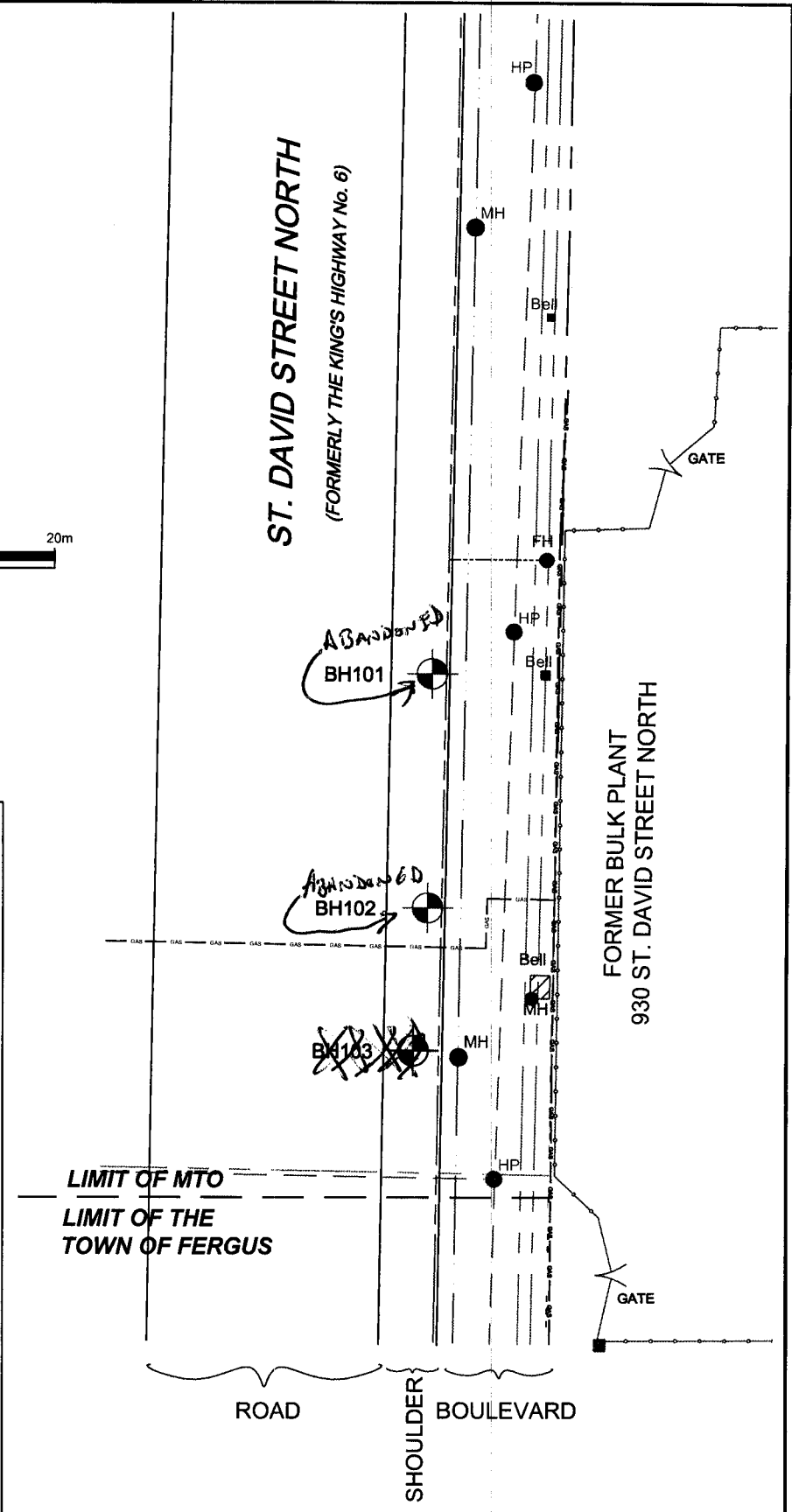
6607

Z 44249

APR 19 2006



LEGEND	
	Property Boundary
	Fenceline
	Overhead Hydro Wires
	Natural Gas Line
	Watermain
	Sewer
	Cable Banks - Fiber Optic
	Fire Hydrant (Temporary Bench Mark)
	Bell Box
	Sewer Manhole
	Hydro Pole
	Off-Site Borehole Equipped with Monitoring Well (AMEC, April 2003)
MTO	Ministry of Transportation of Ontario



	Date:	Approximate Scale:	Project No.:
	February 2005	1 : 500	
 930 St. David Street North Fergus, Ontario	Drawn by:	Approved by:	Figure No.: 3
	KH	PN	Borehole Location Plan

6607

244249

APR 19 2006



ABANDONMENT  
NO WELL TAG

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- All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.
- Please print clearly in blue or black ink only.

Ministry Use Only									
MUN								CON	LOT

Address of Well Location (County/District/Municipality) **WELLINGTON COUNTY** Township **FERGUS.**

RR#/Street Number/Name **930 ST. DAVID ST. N.** City/Town/Village **FERGUS.** Site/Compartment/Block/Tract etc.

GPS Reading NAD **83** Zone **17** Easting **549049** Northing **4840328** Unit Make/Model **MAGILLAN** 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
ABANDONMENT					

**Hole Diameter**

Depth Metres	Diameter Centimetres
0	3.8 21

**Water Record**

Water found at **1.8** metres / Kind of Water

Gas  Fresh  Sulphur  Salty  Minerals

After test of well yield, water was  Clear and sediment free  Other, specify

Chlorinated  Yes  No

**Construction Record**

Inside diam. centimetres	Material	Wall thickness centimetres	Depth Metres
			From To
<b>Casing</b>			
<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>			
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.	
<b>No Casing or Screen</b>			
<input type="checkbox"/> 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)				
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 <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth metres	5		5	
Recommended pump rate (litres/min)	10		10	
If flowing give rate (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

**Plugging and Sealing Record**  Annular space  Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From To		
0	3.6 BENTONITE CHIPS.	

**Location of Well**

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

SEE ATTACHED MAP

**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

**Well Contractor/Technician Information**

Name of Well Contractor **Geo-Environmental Drilling Inc. 6607** Well Contractor's Licence No.

Business Address (street name, number, city etc.) **340 MARKET DR. MILTON, ON**

Name of Well Technician (last name, first name) **BARTLEY ANDREW** Well Technician's Licence No. **7-3110**

Signature of Technician/Contractor **[Signature]** Date Submitted **2006 03 31**

Audit No. **2 46628** Date Well Completed **2006 03 31**

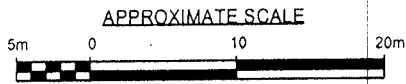
Was the well owner's information package delivered?  Yes  No Date Delivered

**Ministry Use Only**

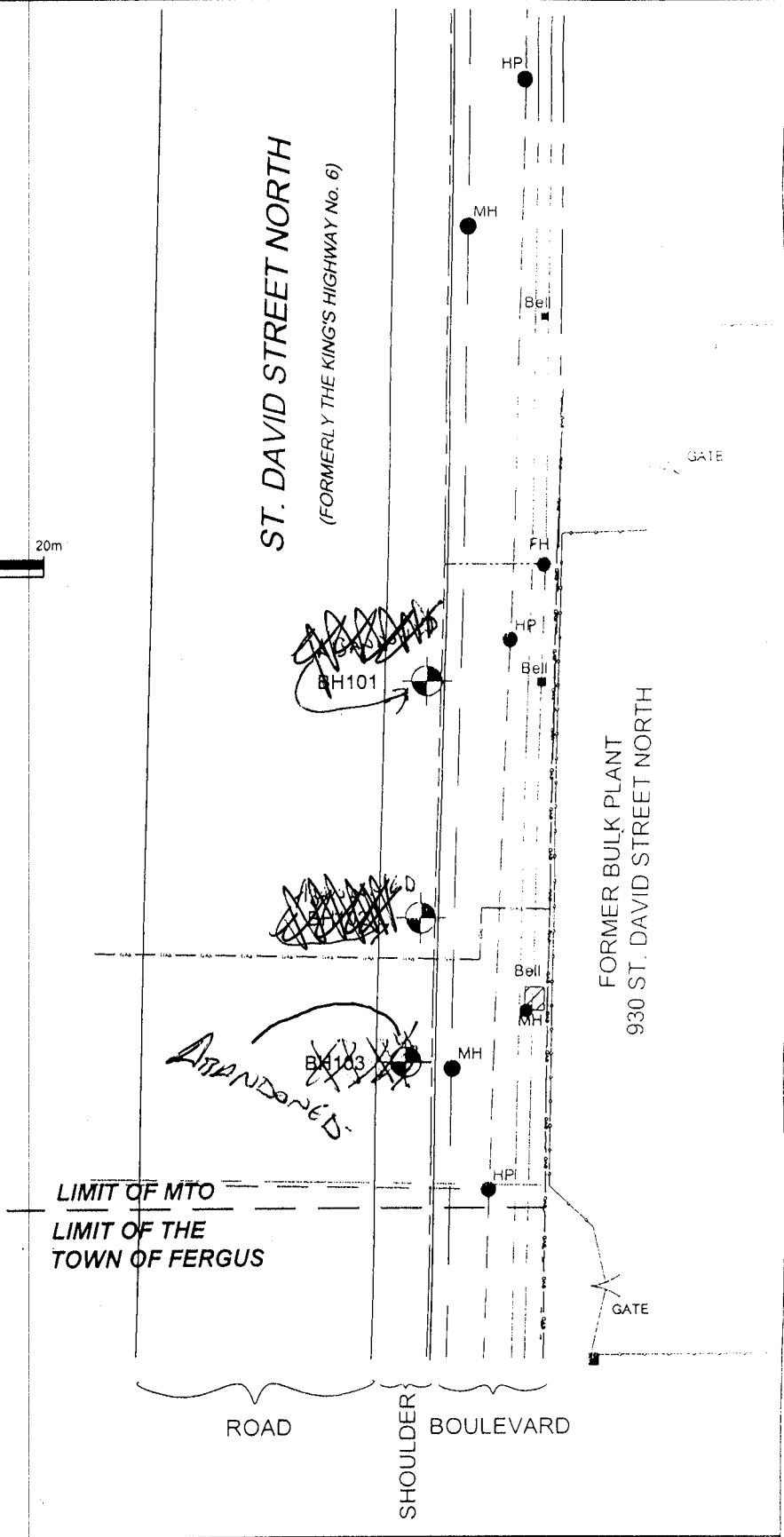
Data Source Contractor's No. **6607**

Date Received **MAY 05 2006** Date of Inspection

Remarks Well Record Number



LEGEND	
	Property Boundary
	Fenceline
	Overhead Hydro Wires
	Natural Gas Line
	Watermain
	Sewer
	Cable Banks - Fiber Optic
	Fire Hydrant (Temporary Bench Mark)
	Bell Box
	MH Sewer Manhole
	HP Hydro Pole
	Off-Site Borehole Equipped with Monitoring Well (AMEC, April 2003)
MTO	Ministry of Transportation of Ontario



Earth & Environmental 930 St. David Street North Fergus, Ontario	Date: February 2005	Approximate Scale: 1 : 500	Project No.: 
	Drawn by: KH	Approved by: PN	Figure No.: 3 Borehole Location Plan

6607

Z46628

MAY 05 2006

**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 1/10<sup>th</sup> of a metre.
- Please print clearly in blue or black ink only.

**Ministry Use Only**

**Well Owner's Information and Location of Well Information**

WELLINGTON RR# / Street Number / Name: 568 BLACK ST. City / Town / Village: NICHOL FERGUS Site / Compartment / Block / Tract etc.: 20 15

GPS Reading: NAD 83 Zone 17 Easting 548635 Northing 4839672 Unit Make / Model: GARMIN ETREX 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 From	Metres To
	ABANDON DUG WELL MEASURES 10' DEEP BY 2 1/2' 10.				

**Hole Diameter**

Depth From	Metres To	Diameter Centimetres

**Water Record**

Water found at \_\_\_ Metres / Kind of Water

m  Fresh  Sulphur  Gas  Salty  Minerals  Other: \_\_\_\_\_

m  Fresh  Sulphur  Gas  Salty  Minerals  Other: \_\_\_\_\_

m  Fresh  Sulphur  Gas  Salty  Minerals  Other: \_\_\_\_\_

After test of well yield, water was  Clear and sediment free  Other, specify \_\_\_\_\_

Chlorinated  Yes  No

**Construction Record**

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
<b>Casing</b>				
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
<b>No Casing or Screen</b>				
	<input type="checkbox"/> 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			
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. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

**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	1	NATIVE	
1	1.3	BENTONITE	.14
1.3	2.7	NATIVE	
2.7	3.0	BENTONITE	.14

**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

**Location of Well**

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

Audit No. **Z 38461** Date Well Completed **2006 09 08**

Was the well owner's information package delivered?  Yes  No Date Delivered **2006 09 16**

**Well Contractor/Technician Information**

Name of Well Contractor: **MEADOWBANK DRILLING SERVICES** Well Contractor's Licence No.: **6865**

Business Address (street name, number, city etc.): **RR1 ELORA ON, NOB 150**

Name of Well Technician (last name, first name): **HUGH BROADFOOT** Well Technician's Licence No.: **T1897**

Signature of Well Contractor: *[Signature]* Date Submitted: **2006 09 30**

**Ministry Use Only**

Data Source: Contractor **6865**

Date Received: **OCT 17 2006** Date of Inspection: YYY Y MM DD

Remarks: \_\_\_\_\_ Well Record Number: \_\_\_\_\_



Ministry of the Environment

Well Tag Number (Please check and print number below)

A 045101

Well Record Regulation 903 Ontario Water Resources Act

page \_\_\_ of \_\_\_

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.
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.

Ministry Use Only

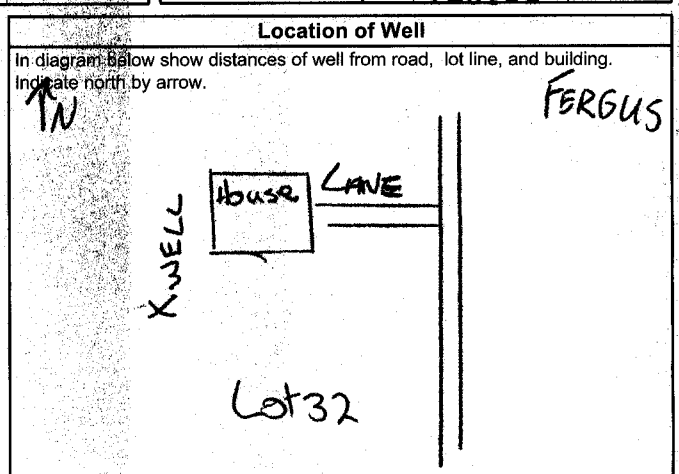
Address of Well Location (County/District/Municipality) WELLINGTON
Township NICHOL
Lot 19 Concession 15
RR#/Street Number/Name City/Town/Village Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To. Rows include BROWN CLAY & GRAVEL, GRAY CLAY, GRAY CLAY & STONES, BROWN LIMESTONE, GRAY LIMESTONE, BROWN LIMESTONE.

Hole Diameter, Construction Record, Test of Well Yield, Water Record. Includes details on depth, diameter, material, wall thickness, pumping rate, draw down, and recovery.

Plugging and Sealing Record. Includes depth set at, material and type (BENTONITE SLURRY), and volume placed.



Method of Construction. Includes options for Cable Tool, Rotary (air), Diamond, Digging, Rotary (conventional), Air percussion, Jetting, Other, Rotary (reverse), Boring, Driving.

Water Use. Includes Domestic, Industrial, Public Supply, Stock, Commercial, Not used, Irrigation, Municipal, Cooling & air conditioning.

Final Status of Well. Includes Water Supply, Recharge well, Unfinished, Abandoned (Other), Observation well, Abandoned, insufficient supply, Dewatering, Test Hole, Abandoned, poor quality, Replacement well.

Well Contractor/Technician Information. Includes Name of Well Contractor (KEITH LANG WELL DRILLING INC), Well Contractor's Licence No. (7154), Business Address (251 ELDON ST GODERICH ONT), Name of Well Technician (KEITH LANG), Well Technician's Licence No. (T446), Signature of Technician Contractor.

Audit No. 2 53157, Date Well Completed 2006 9 27, Was the well owner's information package delivered? Yes No

Ministry Use Only. Includes Date Received (NOV 22 2006), Date of Inspection, Well Record Number (7154), Remarks.

## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 7041270  
 Well Audit Number: Z58186  
 Well Tag Number: A046105

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

### Well Location

<b>Address of Well Location</b>	585 GARATRAYA ST W
<b>Township</b>	FERGUS TOWN
<b>Lot</b>	
<b>Concession</b>	
<b>County/District/Municipality</b>	WELLINGTON
<b>City/Town/Village</b>	FERGUS
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 548644.00 Northing: 4839863.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK	FILL			0 m	.3 m
BRWN	SAND	SILT		.3 m	3.1 m
BRWN	SILT	SAND		3.1 m	6.1 m

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.3 m	CONCRETE	
.3 m	1.5 m	BENTONITE	
1.5 m	6.1 m	SILICA SAND	

### Method of Construction & Well Use

Method of Construction	Well Use
Other Method	

**Status of Well****Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
5.08 cm	PLASTIC	0 m	1.5 m

**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
5.08 cm	PLASTIC	1.5 m	6.1 m

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 7241

**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 From	Depth To	Diameter
0 m	6.1 m	8.255 cm

**Audit Number:** Z58186

**Date Well Completed:** January 18, 2007

**Date Well Record Received by MOE:** February 26, 2007

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

FEET

Well Owner's Information

County/District/Municipality: **WELLINGTON** City/Town/Village: **FERGUS** Province: **Ontario** Postal Code: **P1Y 1S**

UTM Coordinates: NAD 83 Zone Easting: **17548587** Northing: **74839962** GPS Unit Make: **MAG** Model: **mer** Mode of Operation:  Undifferentiated  Averaged

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
BROWN	CLAY	STONES		0	6
BROWN	GRAVEL	SAND		6	18
GREY	CLAY	STONES		18	61
GREY	HARD PAN			61	81
GREY	LIMESTONE			81	150
LT BRN	LIMESTONE			150	275

**Annular Space/Abandonment Sealing Record**

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0	84	BENTONITE SLURRY	0.64 cu/m

**Results of Well Yield Testing**

Time (Min)	Draw Down (Metres)		Recovery (Metres)	
	Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
Static Level		89	Static Level	
1		150	1	111
2			2	107
3			3	104
4			4	101
5			5	99
10			10	91
15			15	90
20			20	90
25			25	89
30			30	
40			40	
50			50	
60		150	60	89

Check box if after test of well yield, water was:  
 Clear and sand free  
 Cannot develop to sand-free state

If pumping discontinued, give reason:

Pumping test method: **AIR/BAIL**

Pump intake set at (Metres): **150'**

Pumping rate (Litres/min): **10 GPM**

Duration of pumping: **1 hrs + 45 min**

Final water level end of pumping (Metres): **150**

Recommended pump type:  Shallow  Deep

Recommended pump depth: **150' Metres**

Recommended pump rate (Litres/min): **10 GPM**

If flowing give rate (Litres/min):

**Method of Construction**

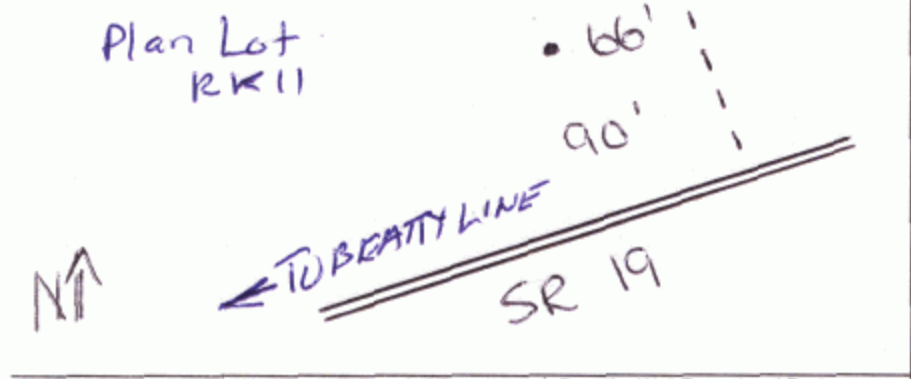
Cable Tool  Diamond  Public  Commercial  Not used  
 Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering  
 Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring  
 Rotary (Air)  Digging  Irrigation  Cooling & Air Conditioning  
 Air percussion  Boring  Industrial  Other, specify \_\_\_\_\_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

**Water Use**

Water Supply  Dewatering Well  Observation and/or Monitoring Hole  
 Replacement Well  Abandoned, Insufficient Supply  Alteration (Construction)  
 Test Hole  Abandoned, Poor Water Quality  Other, specify \_\_\_\_\_  
 Recharge Well  Abandoned, other, specify \_\_\_\_\_

**Location of Well**

Please provide a map below showing:  
 - all property boundaries, and measurements sufficient to locate the well in relation to fixed points,  
 - an arrow indicating the North direction  
 - detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")  
 - vidigital pictures of inside of well can also be provided



**Water Details**

Water found at Depth (Metres)	Kind of Water
	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
	<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
	<input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Date Well Completed (yyyy/mm/dd): **2007/10/25** Was the well owner's information package delivered?  Yes  No

Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): **2007/10/25**

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **DURL HOPPER LIMITED** Well Contractor's Licence No.: **21644**

Business Address (Street No./Name, number, RR): **RR#1** Municipality: **ST. MARYS**

Province: **ON** Postal Code: **N4X1C9** Business E-mail Address: **hopper@cyg.net**

Bus. Telephone No. (inc. area code): **519-271-7860** Name of Well Technician (Last Name, First Name): **HOPPER, DOUGLAS**

Well Technician's Licence No.: **2323** Signature of Technician: *[Signature]* Date Submitted (yyyy/mm/dd): **2007/12/20**

**Casing Used**

Galvanized  Steel  Fibreglass  Plastic  Concrete

**Screen Used**

Galvanized  Steel  Fibreglass  Plastic  Concrete

**Casing and Well Details**

Diameter of the Hole (Centimetres): **83/4**

Depth of the Hole (Metres): **275**

Wall Thickness (Metres): **.188**

**No Casing and Screen Used**

Open Hole

Disinfected?  Yes  No

Inside Diameter of the Casing (Metres): **6'14"**

Depth of the Casing (Metres): **84'**

**Ministry Use Only**

Audit No.: **z 62916** Well Contractor No.:

Date Received (yyyy/mm/dd): **APR 03 2008** Date of Inspection (yyyy/mm/dd):

Remarks:



Master Well Owner's and Land Owner's Information

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR) 935 St David St, Township, Lot, Concession, City/Town/Village Ferguson, Province Ontario, Postal Code N1M2W3, UTM Coordinates, Zone, Easting, Northing, GPS Unit Make, Model, Mode of Operation: Averaged

Overburden and Bedrock Materials table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From, To. Includes entries for Brown Sand, Silt, Clay, Gravel, Fill, dense, and Hard.

Hole Details table with columns: Depth (Metres) From, To, Diameter (Centimetres). Includes entry for 0 to 4.21m diameter.

Water Use section with checkboxes for Public, Industrial, Not used, Other, Domestic, Commercial, Dewatering, Livestock, Municipal, Monitoring, Irrigation, Test Hole, Cooling & Air Conditioning.

Method of Construction section with checkboxes for Cable Tool, Air Percussion, Digging, Rotary (Conventional), Diamond, Boring, Rotary (Reverse), Jetting, Rotary (Air), Driving, Other.

Status of Well section with checkboxes for Test Hole, Replacement Well, Dewatering Well, Alteration (Construction), Abandoned (Insufficient Supply, Poor Water Quality), Other.

No Casing and Screen Used / Static Water Level Test section. Includes checkboxes for Yes/No and a field for Metres (N/A).

Construction Details table with columns: Inside Diameter (Centimetres), Material (steel, plastic, fibreglass, concrete, galvanized), Wall Thickness, Depth (Metres) From, To. Includes entry for 5.1cm Plastic, .65 thickness, 0 to 4m depth.

Screen section with checkboxes for Galvanized, Steel, Fibreglass, Concrete, Plastic. Includes Outside Diameter (6.4) and Slot No. (20).

Water Details section with fields for Water found at Depth (1.7) and Kind of Water (Fresh). Includes checkboxes for Gas, Salty, Sulphur, Minerals.

Annular Space/Abandonment Sealing Record table with columns: Depth Set at (Metres) From, To, Type of Sealant Used (Material and Type), Volume Used (Cubic Metres). Includes entries for Concrete and Bentonite Chips.

Disinfected section with checkboxes for Yes/No and a field for Date Master Well Completed (2009/02/27).

Cluster Information section with fields for Total Wells in Cluster (3), Total Wells on this Property (3), and Information Log Sheets Submitted (1).

Location of Well Cluster section with a checkbox to confirm detailed map is provided as per Section 11.1 (3).

Consent to release additional information concerning the cluster to the Director upon request

Signature of Technician/Contractor (Jubard), Date (2009/02/27), Master Well Owner's/Land Owner's consent to use Cluster Form, Date (09/02/07).

Well Contractor and Well Technician Information section. Includes Business Name (Geo-Environmental Drilling), Address (340 Market Dr, Wilton, Ont.), Business E-mail Address, Business Telephone No. (905-876-3388), Name of Well Technician (Ward Jeremy), Well Technician's Licence No. (3108), Signature of Technician (Jubard), Date Submitted (2009/02/27).

Ministry Use Only section. Includes Audit No. (M 04329), Well Contractor No., Date Received (APR 23 2009), Date of Inspection, Remarks.

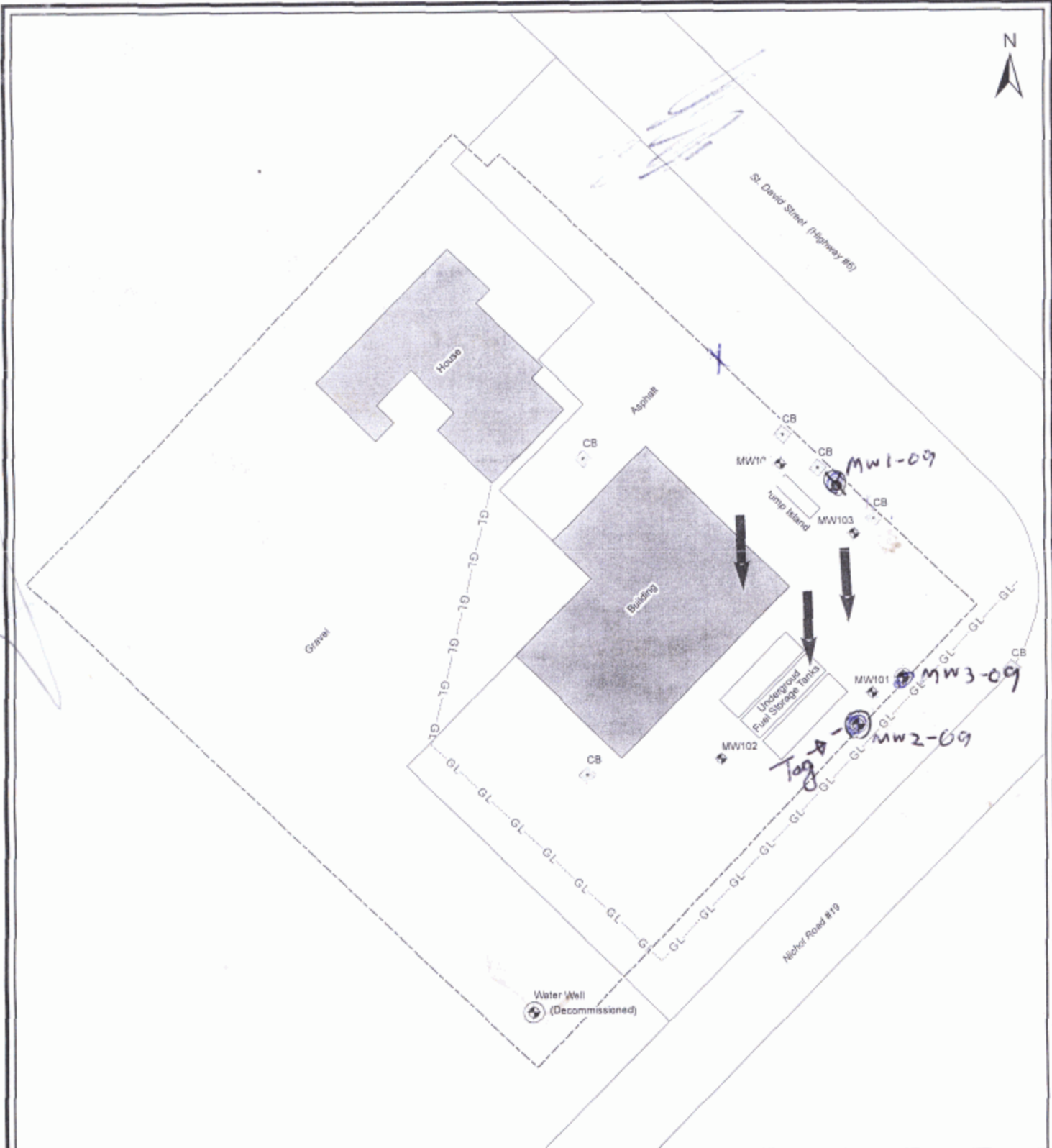
A082 703

Consent

Address of Well Location (Street Number/Name, RR)		Lot	Concession	Township	County/District/Municipality		Signature of Technician/Contractor	Date (yyyy/mm/dd)
935 St. David St							Julard	2009/02/27
City/Town/Village	Province	Postal Code	GPS Unit Make	Model	Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged			
Fergus	Ontario	N1M2W3	Explorist	100	<input type="checkbox"/> Differentiated, specify:			

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
MW3-09	17	548977	4840358	4	21	boring	Plastic	1	1	# bentonite	N/A			2009/27/02
MW1-09	17	548983	4840341	4	21	boring	Plastic	1	1	# chips	N/A			2009/27/02

<b>Well Contractor and Well Technician Information</b>				Date 1st Well in Cluster Constructed (yyyy/mm/dd)	Date Last Well in Cluster Constructed (yyyy/mm/dd)
Business Name of Well Contractor		Business Address (Street Number/Name, RR)		Municipality	Province
Geo-Environmental		340 Market Dr		Millar	On.
Postal Code	Business Telephone No. (inc. area code)	Well Contractor's Licence No.	Business E-mail Address		
L9T5A4	9058763388	6607			
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Date Submitted (yyyy/mm/dd)	Signature of technician	
Jeremy Ward.		3108		Julard	
<b>Ministry Use Only</b>			Date Received (yyyy/mm/dd)		
			APR 23 2009		
			Date Inspected (yyyy/mm/dd)		
Audit No.			Remarks		
C05250			md1329		



**Legend**

- - - - - Site Property Boundary
- GL - - - - - Underground Gas Line
- ⊕ - Monitoring Well (Terrapex - 1999)
- ⊕ - Proposed Monitoring Well (FRANZ - Jan. 2009)
- ➔ - Inferred Ground Water Flow Direction



Title: <b>PROPOSED MONITORING WELL LOCATIONS</b>	
Project: <b>SUPPLEMENTAL SUBSURFACE CONTAMINANT DELINEATION ASSESSMENT 935 St. DAVID St. NORTH, FERGUS, ON</b>	
Client: <b>BLINKHORN MOTORS LTD.</b>	
<b>FRANZ ENVIRONMENTAL INC.</b> • CONSULTING • ENGINEERING • TECHNOLOGIES •	Date: <b>Jan. 2009</b>
	Updated: <b>Jan. 27, 2009</b>
<b>FIGURE 1</b>	

APR 23 2009

C-6607 m84329  
C05250

**Master Well Owner's and Land Owner's Information**

First Name: Township of Centre Wellington  
Last Name: CO Triton Engineering Limited  
E-mail Address: [blank]  
Mailing Address (Street Number/Name, RR): 105 Queen St. W. Unit 14  
Municipality: Fergus  
Province: ON  
Postal Code: N1M1S6  
Telephone No. (inc. area code): 519 846 9691

**Location and Construction of the Master Well in the Cluster**

Address of Well Location (Street Number/Name, RR): Sand 19 Infront of # 146  
Township: [blank]  
Lot: [blank]  
Concession: [blank]  
City/Town/Village: Fergus  
Province: Ontario  
Postal Code: [blank]

UTM Coordinates: NAD 83 175483624839497  
Zone: 18  
Easting: 3624839  
Northing: 497  
GPS Unit Make: Magellan  
Model: Sportrak  
Mode of Operation:  Undifferentiated  Averaged  
 Differentiated, specify

**Overburden and Bedrock Materials (see instructions on the back of this form)**

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
Brown	Silt	Sand	Fill	0	1.5
Brown	Sand	Silt	Compact	1.5	4.5
Grey	Silt	till	dense	4.5	6.0
Grey	Sand	Gravel	Very dense	6.0	7.6
BH 10A					

**Hole Details**

Depth (Metres)		Diameter (Centimetres)
From	To	
0	7.6	21

**Water Use**

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

**Method of Construction**

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

**Status of Well**

Test Hole  Abandoned, Insufficient Supply  
 Replacement Well  Abandoned, Poor Water Quality  
 Dewatering Well  Other, specify  
 Alteration (Construction)  Abandoned, other, specify

**No Casing and Screen Used**

Open Hole  Yes  No [ ] Metres

**Screen**

Galvanized  Steel  Fibreglass  Concrete  Plastic  
 Outside Diameter (Centimetres): 6.4  
 Slot No.: 10

**Water Details**

Water found at Depth: [ ] Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: [ ] Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: [ ] Metres  Gas  Fresh  Salty  Sulphur  Minerals

Disinfected  Yes  No. If no, provide reason: [ ] Date Master Well Completed (yyyy/mm/dd): 2009/06/05

**Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)**

Total Wells in Cluster: 3  
 Total Wells on this Property: 3  
 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1

**Location of Well Cluster**

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request  
 Signature of Technician/Contractor: [ ] Date: [ ]

**Construction Details**

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
5.1	Plastic	0.65		

**Annular Space/Abandonment Sealing Record**


Depth Set at (Metres)		Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
From	To		
0	0.3	Concrete	
0.3	4.2	Bentonite	
4.2	7.6	Sand	

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Geo Environmental Drilling Inc  
 Well Contractor's Licence No.: 6607  
 Business Address (Street No./Name, number, RR): 340 Market Dr, Milton  
 Municipality: Halton  
 Province: ON  
 Postal Code: L9T5A4  
 Business E-mail Address: [ ]  
 Bus. Telephone No. (inc. area code) of Well Technician (Last Name, First Name): 905 876 3388  
 Signature of Technician: [ ]  
 Well Technician's Licence No.: 1306  
 Date Submitted (yyyy/mm/dd): 2009/06/05


Audit No.: M 051.61  
 Date Received (yyyy/mm/dd): JUL 09 2009  
 Date of Inspection (yyyy/mm/dd): [ ]  
 Remarks: [ ]

Property Owner's Information					
First Name	Last Name	Mailing Address (Street No./Name, RR)		Municipality	
Wmship of Centre Wellington	CO Triton Engineering Ltd.	105 Queen St. W. Unit 14		Fergus	
Province	Postal Code	E-mail Address		Telephone No. (inc. area code)	
ON	N1M1S6			5198469691	

Co	
Pro	
Sign	
Cor upd	
Signature of Technician/Contractor	
Date (yyyy/mm/dd)	
2009/06/04	

Cluster Well Information						
Address of Well Location (Street Number/Name, RR)			Lot	Concession	Township	County/District/Municipality
Srd 19						
City/Town/Village	Province	Postal Code	GPS Unit Make	Model	Unit Mode of Operation	
Fergus	Ontario		Magellan	Sporttrak	<input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged	

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
47A	17	5487784839916	9.1	21	Boring	Plastic	6.0	6.0	9.1	Bentonite	-	-	In front of # 48	2009/06/04
49A	17	5485134839646	7.6	21	Boring	Plastic	4.5	4.5	7.6	Bentonite	-	-		2009/06/04

Well Contractor and Well Technician Information					
Business Name of Well Contractor		Business Address (Street Number/Name, RR)		Municipality	Province
Geo Environmental Drilling Inc		340 Market Dr, Milton		Halton	ON
Postal Code	Business Telephone No. (inc. area code)	Well Contractor's Licence No.	Business E-mail Address		
L9T5A4	9058763388	6687			
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Date Submitted (yyyy/mm/dd)	Signature of Technician	
Carl Giles		1386	2009/06/05		

Date 1st Well in Cluster Constructed (yyyy/mm/dd)	Date Last Well in Cluster Constructed (yyyy/mm/dd)
2009/06/04	2009/06/05
Ministry Use Only	
Date Received (yyyy/mm/dd)	Date Inspected (yyyy/mm/dd)
JUL 9 2009	
Audit No.	Remarks
C05844	M05161

C-6687  
M05161  
C05844

# SIDEROAD 19



0 25 50 75 100 m  
SCALE 1:2500

JUL 09 2009



Ministry of the Environment

Naylor - 090577 - May 27, 09 -

8151-61

Well Tag No. for Master Well (Place Sticker and/or Print Below)

A 082752

Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

Page 1 of 32

Master Well Owner's and Land Owner's Information

First Name, Last Name, E-mail Address, Mailing Address (Street Number/Name, RR), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, GPS Unit Make, Model, Mode of Operation

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From/To. Rows include BROWN SAND & GRAVEL FILL, BROWN SAND, GREY SILT.

Hole Details table with 3 columns: Depth (Metres) From/To, Diameter (Centimetres). Row: 0 to 9.1, 21.

Water Use section with checkboxes for Public, Industrial, Domestic, Commercial, Livestock, Municipal, Irrigation, Test Hole, Not used, Dewatering, Monitoring, Cooling & Air Conditioning.

Method of Construction section with checkboxes for Cable Tool, Rotary (Conventional/Reverse/Air), Air Percussion, Diamond, Jetting, Driving, Digging, Boring, Other.

Status of Well section with checkboxes for Test Hole, Replacement Well, Dewatering Well, Alteration (Construction), Abandoned (Insufficient Supply/Poor Water Quality/Other), Other (specify MONITORING).

No Casing and Screen Used / Static Water Level Test section with checkboxes for Yes/No and Metres.

Screen section with checkboxes for Galvanized, Steel, Fibreglass, Concrete, Plastic and Outside Diameter/Slot No.

Water Details section with fields for Water found at Depth (Metres) and Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals).

Construction Details table with 4 columns: Inside Diameter (Centimetres), Material, Wall Thickness, Depth (Metres) From/To. Rows: 5.1 PLASTIC RISER, 5.1 PLASTIC SCREEN.

Annular Space/Abandonment Sealing Record table with 3 columns: Depth Set at (Metres) From/To, Type of Sealant Used, Volume Used (Cubic Metres). Rows: 0.2-2.7 BENTONITE CHIPS, 2.7-6.0 SAND PACK, 6.0-6.3 SAND, 6.3-9.1 BENTONITE CHIPS.

Disinfected section with checkboxes for Yes/No and Date Master Well Completed (2009/05/26).

Cluster Information section with fields for Total Wells in Cluster (4), Total Wells on this Property (4), and Number of Cluster Well Information Log Sheets Submitted (1).

Location of Well Cluster section with a note about Detailed Map and a checked box to confirm map is provided.

Consent to release additional information section with Signature of Technician/Contractor (2009/05/09) and Master Well Owner's/Land Owner's consent to use Cluster Form.

Well Contractor and Well Technician Information section with Business Name (GEO-ENVIRONMENTAL DRILLING INC), Business Address (340 MARKET DR HALTON), and Well Technician details (Gunn, 2007/05/09).

Ministry Use Only section with Audit No. (M 05151), Date Received (OCT 01 2009), Well Contractor No., Date of Inspection, and Remarks.



A082752

**Property Owner's Information**

First Name: TWO OF CENTRE WELLINGTON Last Name: C/O TRITON ENG. SERVICES LTD. Mailing Address (Street No./Name, RR): 105 QUEEN ST. W UNIT 14 Municipality: FERGUS


Province: ONT. Postal Code: N1M1S6 E-mail Address: \_\_\_\_\_ Telephone No. (inc. area code): 5198433920

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR): SIDEROAD 18 (BETWEEN HWY 6 & BEATTY LINE) Lot: \_\_\_\_\_ Concession: \_\_\_\_\_ Township: \_\_\_\_\_ County/District/Municipality: \_\_\_\_\_

City/Town/Village: FERGUS Province: Ontario Postal Code: \_\_\_\_\_ GPS Unit Make: MAGELLAN Model: EXPLORIST 100 Unit Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify: \_\_\_\_\_

upon request

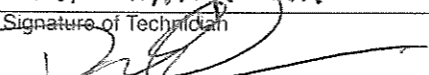
Signature of Technician/Contractor:  Date (yyyy/mm/dd): 2009/05/05

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
105	17	548148	4.5	21	BORING	PLASTIC	3.0	3.0	4.5	BENTONITE CHIPS	2.1			2009/05/2
102	17	548535	9.1	21	BORING	PLASTIC	3.0	3.0	9.1	BENTONITE CHIPS	2.1			2009/05/26
101	17	548661	9.1	21	BORING	PLASTIC	6.0	6.0	9.1	BENTONITE CHIPS	2.1			2009/05/2

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: GEO-ENVIRONMENTAL DRILLING INC Business Address (Street Number/Name, RR): 340 MARKET DR Municipality: HALTON Province: ONT

Postal Code: L9T5A4 Business Telephone No. (inc. area code): 905 8763388 Well Contractor's Licence No.: 6607 Business E-mail Address: geo-environmentaldrilling.com

Name of Well Technician (First Name, Last Name): Dave Gunn Well Technician's Licence No.: 2062 Date Submitted (yyyy/mm/dd): 2009/05/28 Signature of Technician: 

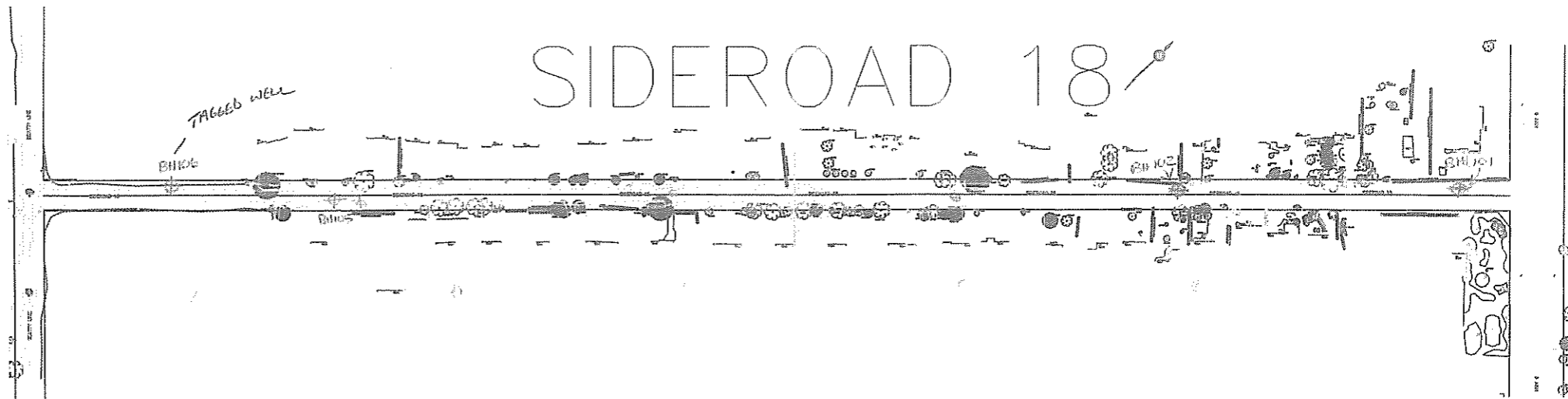
Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2009/05/26 Date Last Well in Cluster Constructed (yyyy/mm/dd): \_\_\_\_\_

**Ministry Use Only**

Date Received (yyyy/mm/dd): \_\_\_\_\_ Date Inspected (yyyy/mm/dd): \_\_\_\_\_

Audit No.: 05834 Remarks: MOSK



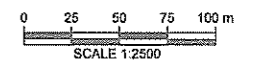


# SIDEROAD 18

TAGGED well

BH06

BH05



OCT 01 2009

C-6607  
M05181  
C05834



Ministry of the Environment

Well Tag No. for Master Well (Place Sticker and/or Print Below)

A 090735

09-0254-00

Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR) 820 ST. DAVID ST. NORTH, Township Nichol, Lot, Concession, County/District/Municipality WELLINGTON COUNTY, City/Town/Village FERGUS, Province Ontario, Postal Code M1M2L2, UTM Coordinates, GPS Unit Make, Model, Mode of Operation: Undifferentiated, Averaged, Differentiated, specify

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From/To. Rows include BROWN FILL SILTY SAND SOFT 0 2.44 and BROWN SILTY SAND SAND SOFT/WET 2.44 4.57

Hole Details table with 3 columns: Depth (Metres) From/To, Diameter (Centimetres). Row: 0 4.57, 21

Water Use section with checkboxes for Public, Industrial, Not used, Other, Domestic, Commercial, Dewatering, Livestock, Municipal, Monitoring, Irrigation, Test Hole, Cooling & Air Conditioning

Method of Construction section with checkboxes for Cable Tool, Air Percussion, Digging, Rotary (Conventional), Diamond, Boring, Rotary (Reverse), Jetting, Other, Rotary (Air), Driving. Includes handwritten 'Auger'.

Status of Well section with checkboxes for Test Hole, Abandoned, insufficient supply, Replacement Well, Abandoned, Poor Water Quality, Dewatering Well, Other, Alteration (Construction), Abandoned, other, specify

No Casing and Screen Used, Static Water Level Test. Includes Yes/No checkboxes and Metres field.

Screen section with checkboxes for Galvanized, Steel, Fibreglass, Concrete, Plastic. Includes Outside Diameter (614) and Slot No. (10).

Water Details section with multiple rows for Water found at Depth, Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals).

Disinfected Yes/No, Date Master Well Completed (2009/12/22)

Cluster Information section: Total Wells in Cluster (2), Total Wells on this Property, Please indicate Number of Cluster Well Information Log Sheets Submitted

Location of Well Cluster section: Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14").

Construction Details table with 4 columns: Inside Diameter (Centimetres), Material (steel, plastic, fibreglass, concrete, galvanized), Wall Thickness, Depth (Metres) From/To. Row: 5.1, PLASTIC, 0.165, 0, 4.57

Annular Space/Abandonment Sealing Record table with 3 columns: Depth Set at (Metres) From/To, Type of Sealant Used (Material and Type), Volume Used (Cubic Metres). Row: 0, 1.22, BENTONITE, 0.02m³

Well Contractor and Well Technician Information section: Business Name of Well Contractor (Hardwork Drilling Inc), Well Contractor's Licence No. (7121318), Business Address (25 Lewis Road - Unit C), Municipality (Guelph), Province (ON), Postal Code (N1H1E9), Business E-mail Address, Bus. Telephone No. (5198269340), Name of Well Technician (England Matthew), Well Technician's Licence No. (310519), Signature of Technician, Date Submitted (2010/01/20)

Ministry Use Only section: Audit No. (M 04689), Well Contractor No., Date Received (2010), Date of Inspection, Remarks (MAR 01 2010)

Well Tag No. for Master Well (Print Well Tag No.)  
**A 090735**

Cluster Well Information for Cluster Well Construction  
 Regulation 903 Ontario Water Resources Act

Address of Well Location (Street Number/Name, RR) **820 ST DAVID ST. NORTH** Lot \_\_\_\_\_ Concession \_\_\_\_\_ Township **Michol** County/District/Municipality **WELLINGTON COUNTY**

City/Town/Village **FERGUS** Province **Ontario** Postal Code **M1M2L2** GPS Unit Make \_\_\_\_\_ Model \_\_\_\_\_ Unit Mode of Operation  Undifferentiated  Averaged  Differentiated, specify: \_\_\_\_\_

upon request

Signature of Technician/Contractor \_\_\_\_\_ Date (yyyy/mm/dd) \_\_\_\_\_

Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
MW1	17	5491197	4840202	4.57	21	AUGER	PLASTIC	4.57	1.52	4.57	BENTONITE		Master.	2009/12/22
MW2	17	549271	4840203	4.57	21	AUGER	PLASTIC	4.57	1.52	4.57	BENTONITE			2009/12/22

**Well Contractor and Well Technician Information**

Business Name of Well Contractor **Hardwork Drilling Inc.** Business Address (Street Number/Name, RR) **35 Lewis Road - Unit C** Municipality **Guelph** Province **ON**

Postal Code **N1H1E9** Business Telephone No. (inc. area code) **519 826 9340** Well Contractor's Licence No. **712318** Business E-mail Address \_\_\_\_\_

Name of Well Technician (First Name, Last Name) **England Matthew** Well Technician's Licence No. **3059** Date Submitted (yyyy/mm/dd) **2010/01/20** Signature of Technician *Matt England*

Date 1st Well in Cluster Constructed (yyyy/mm/dd) **2009/12/22** Date Last Well in Cluster Constructed (yyyy/mm/dd) **2009/12/22**

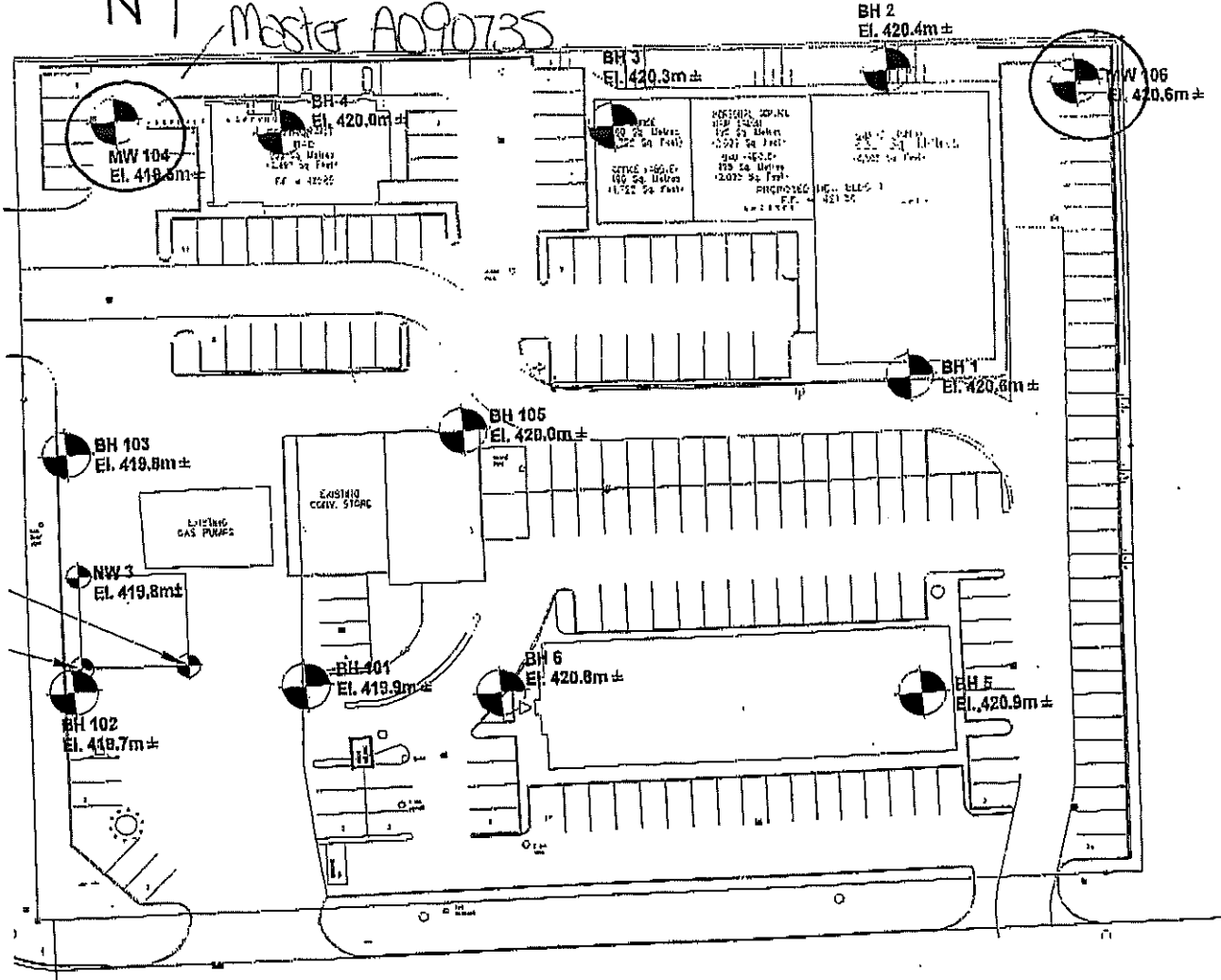
**Ministry Use Only**

Date Received (yyyy/mm/dd) **MAR 01 2010** Date Inspected (yyyy/mm/dd) \_\_\_\_\_

Audit No. **c 05367** Remarks **mdt 655**

ST. DAVID ST. N

N ↑ Master A090735



21 2010

C-7238  
M04689  
C05367



Ministry of the Environment

Well Tag No. for Master Well (Place Sticker and/or Print Below)

ABANDON A085336

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Master Well Owner's and Land Owner's Information

First Name: CENTRE WELLINGTON, Last Name: CENTRE WELLINGTON, Mailing Address: 105 QUEEN ST W UNIT 14, Municipality: FERGUS, Province: ONT, Postal Code: N1M1S6, Telephone No.: 519 843 3920

Location and Construction of the Master Well in the Cluster

Address of Well Location: 5500 ROAD 19, Township: CENTRE WELLINGTON, City/Town/Village: FERGUS, Province: Ontario, Postal Code: [blank]

UTM Coordinates: NAD 83, Zone 18, Easting 75909, Northing 483971, GPS Unit Make: GARMIN, Model: ETREX, Mode of Operation: Undifferentiated

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From/To. Contains handwritten 'ABANDON' across the table.

Hole Details table with columns: Depth (Metres) From/To, Diameter (Centimetres). Contains handwritten '0 7.57 21'.

Water Use section with checkboxes for Public, Industrial, Domestic, Commercial, etc.

Method of Construction section with checkboxes for Cable Tool, Rotary, Air Percussion, etc.

Status of Well section with checkboxes for Test Hole, Replacement Well, Abandoned, etc.

No Casing and Screen Used section with checkboxes for Open Hole, Yes/No.

Screen section with checkboxes for Galvanized, Steel, Fibreglass, Concrete, Plastic.

Construction Details table with columns: Inside Diameter (Centimetres), Material, Wall Thickness, Depth (Metres) From/To.

Water Details section with checkboxes for Water found at Depth, Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals).

Annular Space/Abandonment Sealing Record table with columns: Depth Set at (Metres) From/To, Type of Sealant Used, Volume Used (Cubic Metres).

Disinfection section with checkboxes for Yes/No and Date Master Well Completed.

Cluster Information section with fields for Total Wells in Cluster (3) and Total Wells on this Property (3).

Location of Well Cluster section with a checkbox for Detailed Map and a note about map size.

Consent to release additional information section with a signature and date (2010/04/27).

Well Contractor and Well Technician Information section with fields for Business Name (Geo-Environmental), Licence No. (6607), and Technician Name (GARRIE VAY).

Master Well Owner's/Land Owner's consent to use Cluster Form section with a signature and date.

Ministry Use Only section with fields for Audit No. (M 06588), Date of Inspection (MAY 19 2010), and Remarks.

ABANDON A085336

**Property Owner's Information**

First Name CENTRE WELLINGTON	Last Name	Mailing Address (Street No./Name, RR) 105 QUEEN ST W UNIT 14	Municipality FERGUS
Province ON	Postal Code N1M1S6	E-mail Address	Telephone No. (inc. area code) 519 433 920

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR) SIDE ROAD 19	Lot	Concession	Township	County/District/Municipality CENTRE WELLINGTON
City/Town/Village FERGUS	Province Ontario	Postal Code	GPS Unit Make GARMIN	Model ETREX
Unit Mode of Operation		<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged		
<input type="checkbox"/> Differentiated, specify:				

Signature of Technician/Contractor

Date (yyyy/mm/dd)  
2010/04/27

Well # on Sketch	Zone	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
		Easting	Northing						From	To					
BA7	17	544792	4846139	2 <sup>9.09</sup>	21							2.41	Bentonite	ABANDON	2010/04/27
BA9	17	548533	4839863	2 <sup>7.57</sup>	21							1.96	Bentonite	ABANDON	2010/04/27

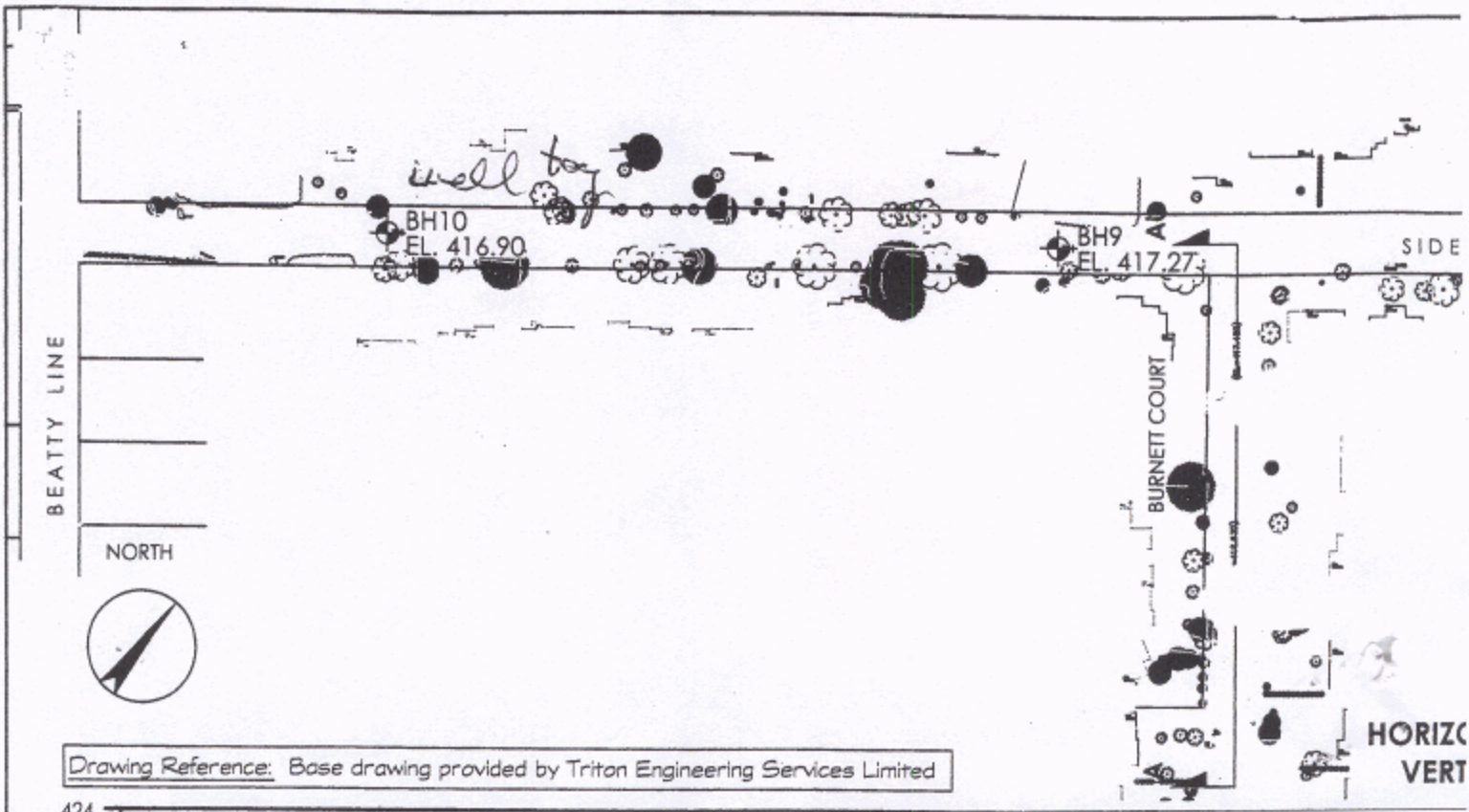
**Well Contractor and Well Technician Information**

Business Name of Well Contractor GEO-ENVIRONMENTAL DRILLING	Business Address (Street Number/Name, RR) 340 MARKET AVE WILLOW	Municipality HOLTON	Province ON
Postal Code L9T 5A4	Business Telephone No. (inc. area code) 905 876 3308	Well Contractor's Licence No. 6607	Business E-mail Address
Name of Well Technician (First Name, Last Name) Dan Gammie	Well Technician's Licence No. 3109	Date Submitted (yyyy/mm/dd) 2010/04/27	Signature of Technician 

Date 1st Well in Cluster Constructed (yyyy/mm/dd)	Date Last Well in Cluster Constructed (yyyy/mm/dd)
<b>Ministry Use Only</b>	
Date Received (yyyy/mm/dd) MAY 1 2010	Date Inspected (yyyy/mm/dd)
Audit No. c07817	Remarks m06588

MAY 19 2010

2-6607  
M06058  
C07817

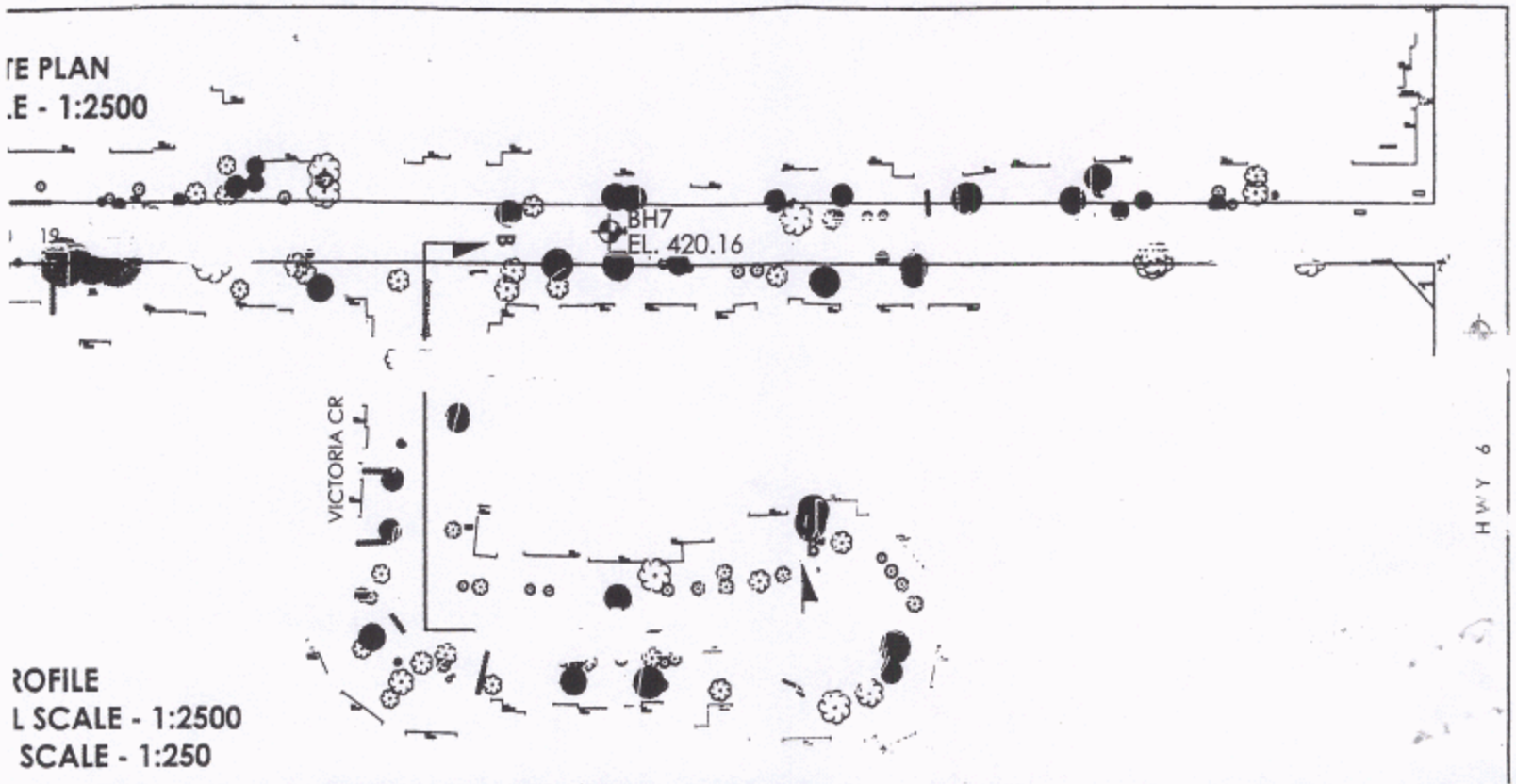


Drawing Reference: Base drawing provided by Triton Engineering Services Limited

MAY 19 2010

267817  
M06888  
2-669

PLAN  
SCALE - 1:2500



PROFILE  
SCALE - 1:2500  
SCALE - 1:250



A094887

A 094887

Master Well Owner's and Land Owner's Information

First Name: CENTRE WELLINGTON  
Last Name: [blank]  
E-mail Address: [blank]  
Mailing Address (Street Number/Name, RR): 105 QUEEN ST W UNIT 14  
Municipality: FERGUS  
Province: ON  
Postal Code: N1M1S6  
Telephone No. (inc. area code): 519 843 3920

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): SPUR ROAD 19  
Township: CENTRE WELLINGTON  
Lot: [blank]  
Concession: [blank]  
County/District/Municipality: WELLINGTON  
City/Town/Village: FERGUS  
Province: Ontario  
Postal Code: [blank]  
UTM Coordinates: NAD 83, Zone 17, Easting 548897, Northing 484023  
GPS Unit Make: Garmin  
Model: STRYX  
Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify [blank]

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
Dark Brown	SILT			0	0.6
Brown	SILT	CLAY, SAND, GRAVEL		0.6	1.9
Brown	SAND	GRAVEL		1.9	2.8
Brown	SAND			2.8	3.6
Grey	SILT	SAND, GRAVEL		3.6	3.7

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	3.7	21

Water Use

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

Method of Construction

Cable Tool  Air Percussion  Digging  
 Rotary (Conventional)  Diamond  Boring  
 Rotary (Reverse)  Jetting  Other, specify [blank]  
 Rotary (Air)  Driving

Status of Well

Test Hole  Abandoned, Insufficient Supply  
 Replacement Well  Abandoned, Poor Water Quality  
 Dewatering Well  Other, specify [blank]  
 Alteration (Construction)  Abandoned, other, specify [blank]

No Casing and Screen Used

Open Hole  Yes  No

Static Water Level Test



Screen

Galvanized  Steel  Fibreglass  Concrete  Plastic  
 Outside Diameter (Centimetres): 6.4  
 Slot No.: 10

Water Details

Water found at Depth: 2.8 Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: [blank] Metres  Gas  Fresh  Salty  Sulphur  Minerals  
 Water found at Depth: [blank] Metres  Gas  Fresh  Salty  Sulphur  Minerals

Disinfected  Yes  No If no, provide reason: [blank] Date Master Well Completed (yyyy/mm/dd): 2010/04/27

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster: 3  
 Total Wells on this Property: 3  
 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.  
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to

Well Contractor and Well Technician Information

Business Name of Well Contractor: Geo-Environmental  
 Well Contractor's Licence No.: 6407  
 Business Address (Street No./Name, number, RR): 340 Market St.  
 Municipality: Milton  
 Province: ON  
 Postal Code: L9T5A4  
 Business E-mail Address: [blank]  
 Bus. Telephone No. (inc. area code): 905 876 3388  
 Name of Well Technician (Last Name, First Name): Gammie Doug  
 Well Technician's Licence No.: 3109  
 Signature of Technician: [Signature]  
 Date Submitted (yyyy/mm/dd): 2010/04/07

Ministry Use Only

Audit No.: M 06587  
 Well Contractor No.: [blank]  
 Date Received (yyyy/mm/dd): MAY 19 2010  
 Date of Inspection (yyyy/mm/dd): [blank]  
 Remarks: [blank]

A094887

**Property Owner's Information**

First Name CENTRE WELLINGTON	Last Name	Mailing Address (Street No./Name, RR) 105 QUEEN ST. W. UNIT 14	Municipality FERGUS
Province ON	Postal Code N1M1S6	E-mail Address	Telephone No. (inc. area code) 5198433920

**Cluster Well Information**

Address of Well Location (Street Number/Name, RR) SIDE RD 19	Lot	Concession	Township CENTRE WELLINGTON	County/District/Municipality
City/Town/Village FERGUS	Province Ontario	Postal Code	GPS Unit Make GARMIN	Model ETREX
Unit Mode of Operation		<input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged		
<input type="checkbox"/> Differentiated, specify:				

Signature of Technician/Contractor

Date (yyyy/mm/dd)  
2010/04/27

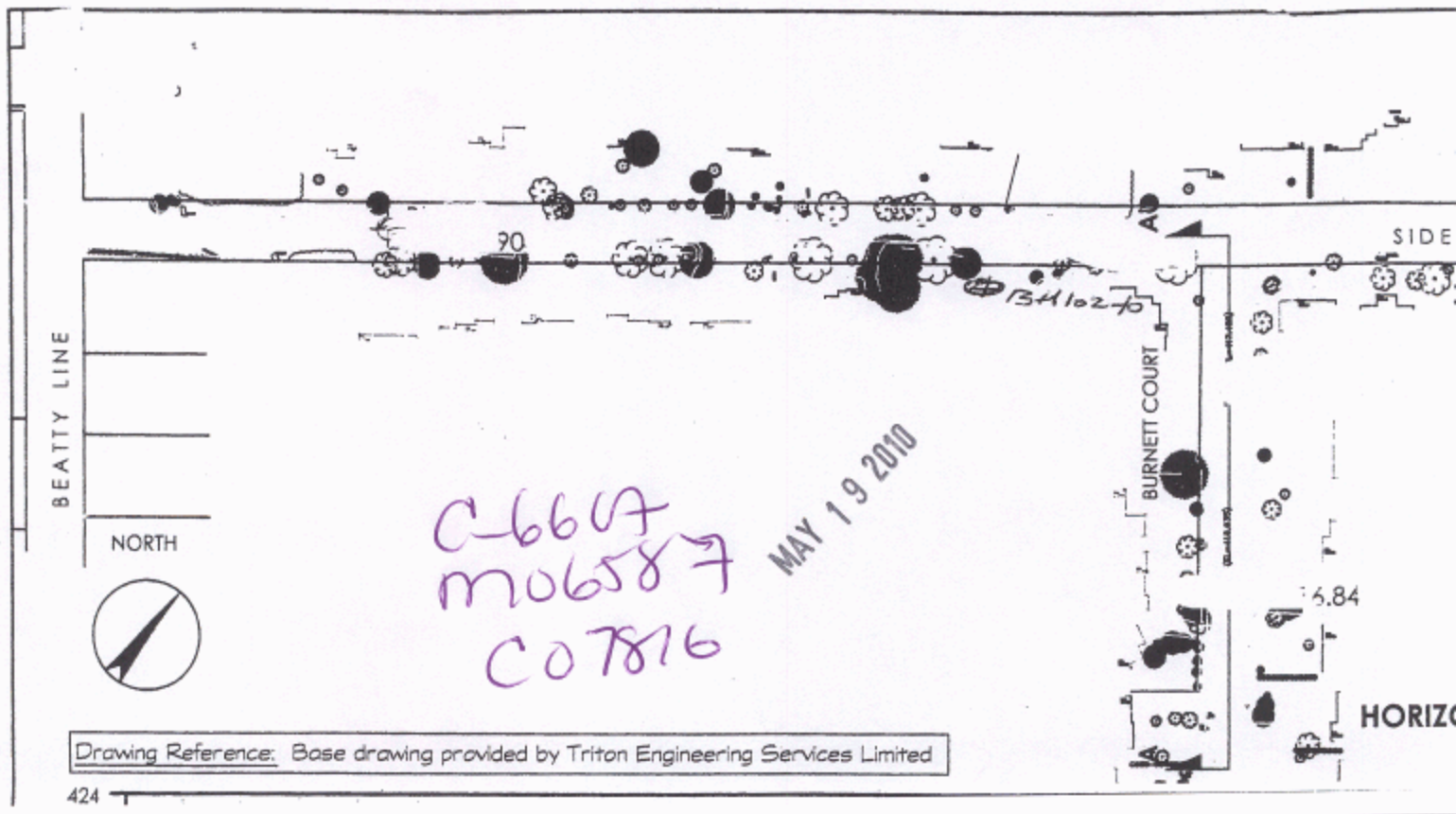
Well # on Sketch	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
	Zone	Easting						Northing	From					
01-10	17	548896	4840231	6.9	21	Boring	PLASTIC	6.0	6.9	5.4	Bentonite	2.8		2010/04/27
02-10	17	548847	24039787	5.5	21	Boring	PLASTIC	4.0	5.5	4.0	Bentonite	2.3		2010/04/27

**Well Contractor and Well Technician Information**

Business Name of Well Contractor GEO-ENVIRONMENTAL DRILLING	Business Address (Street Number/Name, RR) 340 MARKET AVE. W. W. W.	Municipality HOLTON	Province ON
Postal Code L9T5A4	Business Telephone No. (inc. area code) 905 876 3300	Well Contractor's Licence No. 6607	Business E-mail Address
Name of Well Technician (First Name, Last Name) BOB GANNETT	Well Technician's Licence No. 3209	Date Submitted (yyyy/mm/dd) 2010/04/27	Signature of Technician 

Date 1st Well in Cluster Constructed (yyyy/mm/dd) 2010/04/27	Date Last Well in Cluster Constructed (yyyy/mm/dd) 2010/04/27
<b>Ministry Use Only</b>	
Date Received (yyyy/mm/dd) MAY 19 2010	Date Inspected (yyyy/mm/dd)
Audit No. C07816	Remarks M06587

11/10/10 F



BEATTY LINE

NORTH



C-6607  
M06587  
C07816

MAY 19 2010

Drawing Reference: Base drawing provided by Triton Engineering Services Limited

424

BURNETT COURT

HORIZO

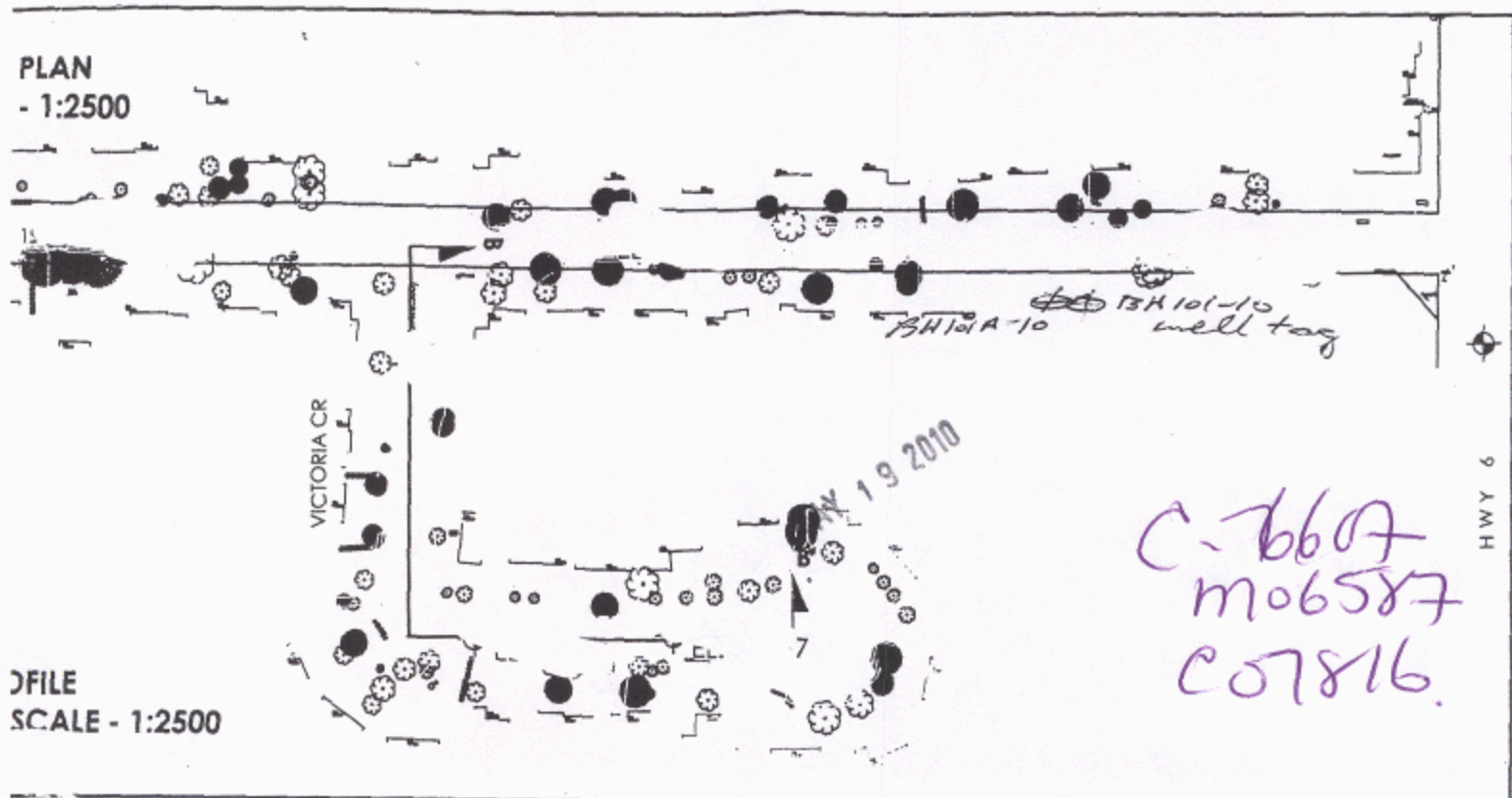
SIDE

90

13410270

5.84

PLAN  
- 1:2500



DFILE  
SCALE - 1:2500

HWY 6

C-7667  
m06587  
C07816

NOV 19 2010

7

WELL ABANDONMENT

Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

Address of Well Location (Street Number/Name) **0081 Side Rd 18** Township **Centre Wellington** Lot **748** Concession **15**  
County/District/Municipality **Wellington** City/Town/Village **Fergus** Province **Ontario** Postal Code **N1M 2R5**  
UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other  
NAD **83** **17548386** **4840249**

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

*Handwritten diagram showing well profile with annotations: '36" GRADE', '6 FT', and 'Dig Time Well'.*

Annular Space			Results of Well Yield Testing					
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	After test of well yield, water was:	Draw Down		Recovery	
				<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
0	6	3/4" Cement Grout	2 YARDS		Static Level			
-6		DENTONITE GROUT	750 YDS	If pumping discontinued, give reason:	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	
				Recommended pump depth (m/ft)	15		15	
				Recommended pump rate (l/min / GPM)	20		20	
				Well production (l/min / GPM)	25		25	
				Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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 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)		
			From	To	
					<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 checked="" type="checkbox"/> Abandoned, Poor Water Quality
					<input type="checkbox"/> Abandoned, other, specify _____
					<input type="checkbox"/> Other, specify _____

Construction Record - Screen		Water Details		Hole Diameter	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	Depth (m/ft) From	To

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Ammon Well Drilling** Well Contractor's Licence No.: **2663**  
Business Address (Street Number/Name): **21 King Street West** Municipality: **Wellington**  
Province: **Ont** Postal Code: **N1M 2W2** Business E-mail Address: **ammonwell@ammonwell.com**  
Bus. Telephone No. (inc. area code): **519-763-8239** Name of Well Technician (Last Name, First Name): **Ammon Steve**  
Well Technician's Licence No.: **0590** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **20100801**

Map of Well Location

Please provide a map below following instructions on the back.

*Handwritten map showing well location relative to 'House' and 'DEATH LINE' with distances: 19.3m, 8.14m, and 0.06km.*

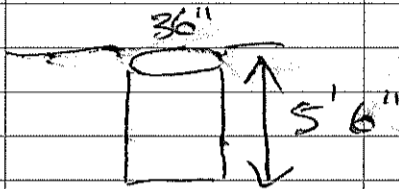
Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered	Ministry Use Only	
	<input checked="" type="checkbox"/>	<b>20100801</b> <td>Audit No. <b>z113991</b></td> <td>Revised <b>AUG 16 2010</b></td>	Audit No. <b>z113991</b>
	Date Work Completed <b>20100826</b>		

**Well Location**

Address of Well Location (Street Number/Name): 146 Side Rd 19. Township: Nichol Centre Well Lot: 19 Concession: 15  
 County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: M1M2L3  
 UTM Coordinates Zone: 17S Easting: 48391693 Northing: 83584839 Municipal Plan and Sublot Number: Part Lot 17 Plan 71

**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
<u>White</u>	<u>ABANDONMENT</u>				
			<u>TOP TAP REMOVED</u>		

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)
<u>0</u>	<u>5'6" ZEPHENITE + 3/4" COARSE GRAVEL</u>	<u>400 LBS</u>				

**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				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					<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>INS. DE DRILLING</u>
					<input type="checkbox"/> Other, specify _____

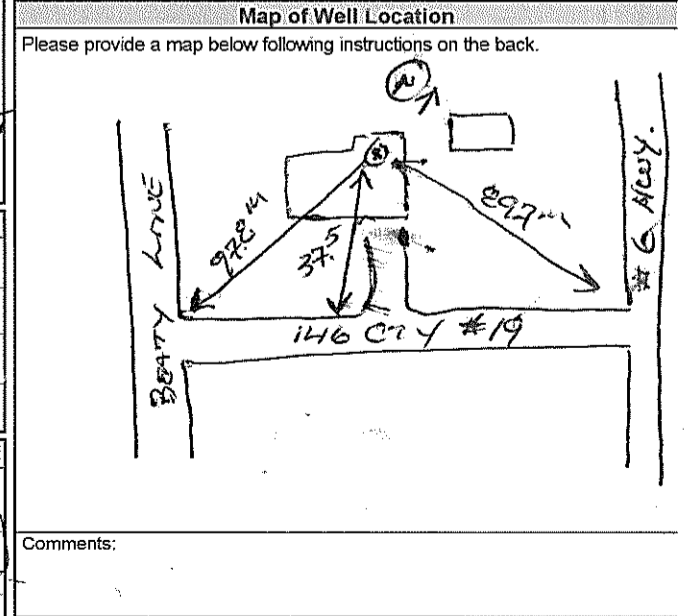
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From
			To

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: HANNOX WELL DRILLING LTD Well Contractor's Licence No.: 261613  
 Business Address (Street Number/Name): RR15 GUELPH Municipality: WELLINGTON  
 Province: ONT. Postal Code: N1H1G5 Business E-mail Address: hannowelldrilling@bellnet.ca  
 Bus. Telephone No. (inc. area code): 5197163823 Name of Well Technician (Last Name, First Name): HANNOX DENRY  
 Well Technician's Licence No.: 0590 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2010/12/01

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
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	
	10		10	
If flowing give rate (l/min / GPM)	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	
	50		50	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	60		60	



Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
	Y   Y   Y   M   M   D   D	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>2010/11/23</u>	Audit No. <u>2124768</u> Received <u>JAN 17 2011</u>

Address of Well Location (Street Number/Name) **0141 SIDEROAD 19** Township **NICHOL** Lot **19** Concession **15**  
 County/District/Municipality **WELLINGTON** City/Town/Village **FERGUS** Province **Ontario** Postal Code **N1M2W3**  
 UTM Coordinates Zone Easting Northing 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
	ABANDON	36" x 17 1/2' DUG WELL	NATIVE	0	3'
			BENTONITE	3'	4'
			GRAVEL	4'	16 1/2'
			BENTONITE	16 1/2'	17 1/2'

**Annular Space**

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

**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 \_\_\_\_\_

**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			
	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	

**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	
					<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 <b>MUNICIPAL</b> <input type="checkbox"/> Other, specify _____

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**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 _____
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **WELL INITIATIVES LTD** Well Contractor's Licence No.: **7221**  
 Business Address (Street Number/Name): **7461 WELLINGTON RD 18** Municipality: **ELORA**  
 Province: **ON** Postal Code: **N0B1S0** Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): **5198468289** Name of Well Technician (Last Name, First Name): **HUGH BROADFOOT**  
 Well Technician's Licence No.: **1897** Signature of Technician and/or Contractor: **[Signature]** Date Submitted: **20101130**

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: **20101130**

Date Work Completed: **20101130**

**Ministry Use Only**

Audit No.: **z125268**  
**FEB 04 2011**  
 Received

Address of Well Location (Street Number/Name) **0131 SIDEROAD 19** Township **NICHOL** Lot **19** Concession **15**  
 County/District/Municipality **WELLINGTON** City/Town/Village **FERGUS** Province **Ontario** Postal Code **N1M2W3**  
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 **175484534839774**

**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
	<b>ABANDON 30" x 11 1/2' DUG WELL</b>			
			<b>NATIVE</b>	0 3'
			<b>BENTONITE</b>	3' 4'
			<b>GRAVEL</b>	4' 10 1/2'
			<b>BENTONITE</b>	10 1/2' 11 1/2'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From To		

**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			
	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  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	
					<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 <b>MUNICIPAL</b> <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"/> 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 <b>MUNICIPAL</b> <input type="checkbox"/> Other, specify _____

**Water Details**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **WELL INITIATIVES LTD.** Well Contractor's Licence No.: **7221**  
 Business Address (Street Number/Name): **7461 WELLINGTON RD 18** Municipality: **ELORA**  
 Province: **ON** Postal Code: **N0B1S0** Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): **519 846 8289** Name of Well Technician (Last Name, First Name): **HUGH BROADFOOT**  
 Well Technician's Licence No.: **1897** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2010/11/30**

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: <b>Y Y Y M M D D</b> <b>20101130</b>	<b>Ministry Use Only</b> Audit No. <b>z125267</b> <b>FEB 04 2011</b> Received
Date Work Completed: <b>20101130</b>		



Measurements recorded in:  Metric  Imperial

A104431

Address of Well Location (Street Number/Name) **0131 SIDEROAD 19** Township **NICHOL** Lot **19** Concession **15**  
 County/District/Municipality **WELLINGTON** City/Town/Village **FERGUS** Province **Ontario** Postal Code **N1M2W3**  
 UTM Coordinates Zone Easting Northing **NAD 83 17 548 452 48 39 773** 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	CLAY	TOP SOIL		0	2'
	SANDY CLAY			2'	5'
	GRAVEL			5'	6'
	TILL			6'	56'
GREY	HARDPAN CLAY			56'	58'
	CLAY	GRAVEL TILL		58'	74'
BROWN	LIMESTONE			74'	156'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 40'	BENTONITE SLURRY	9

**Results of Well Yield Testing**

After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: _____		Static Level	67'		86' 1"
Pump intake set at (m/ft) <b>150</b>		1	73' 5"	1	79' 4"
Pumping rate (l/min / GPM) <b>10</b>		2	76' 2"	2	77' 2"
Duration of pumping <b>1 hrs + 0 min</b>		3	77' 10"	3	75' 9"
Final water level end of pumping (m/ft) <b>86' 1"</b>		4	79' 2"	4	75' 1"
If flowing give rate (l/min / GPM) _____		5	79' 9"	5	74' 5"
Recommended pump depth (m/ft) <b>150'</b>		10	82' 1"	10	72' 4"
Recommended pump rate (l/min / GPM) <b>7</b>		15	83' 6"	15	71' 1"
Well production (l/min / GPM) _____		20	84' 4"	20	70' 5"
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	84' 8"	25	70'
		30	85' 4"	30	69' 4"
		40	85' 9"	40	68' 8"
		50	86'	50	68' 3"
		60	86' 1"	60	68'

**Method of Construction**

<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**

Inside Diameter (m/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (m/in)	Depth (m/ft)		Status of Well
			From	To	
6 1/4	STEEL	.188	+1 1/2'	78 1/2'	<input checked="" type="checkbox"/> Water Supply
6 1/8	OPEN HOLE		78 1/2'	156'	<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**

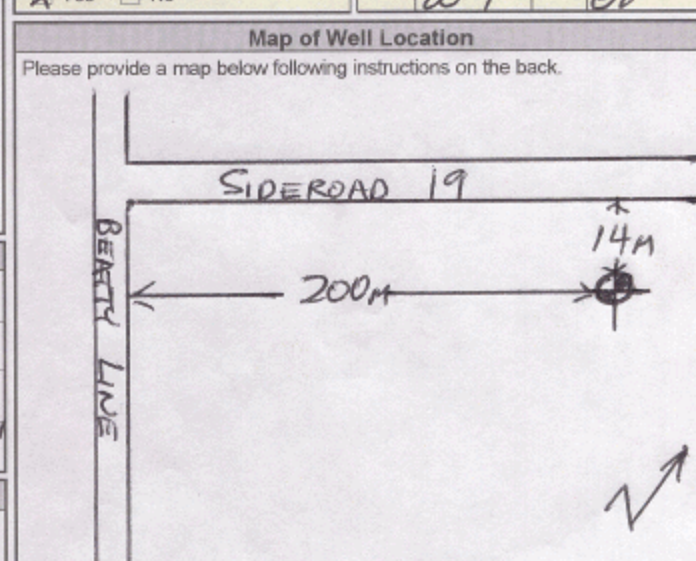
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (m/in)
156'	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From To	
		0 20'	10"
		20' 78 1/2'	9"
		78 1/2' 156'	6 1/8"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **WELL INITIATIVES LTD** Well Contractor's Licence No.: **7 2 2 1**  
 Business Address (Street Number/Name): **7461 WELLINGTON ROAD 18** Municipality: **ELORA**  
 Province: **ON** Postal Code: **N0B 1S0** Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): **519 846 8289** Name of Well Technician (Last Name, First Name): **HUCA BROADFOOT**  
 Well Technician's Licence No.: **1 8 9 7** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **20101231**



Comments: \_\_\_\_\_

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: <b>20101216</b>	Ministry Use Only Audit No.: <b>z125324</b> Received: <b>FEB 04 2011</b>
	Date Work Completed: <b>20101209</b>	

A118815

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name): David St. N. Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_  
 UTM Coordinates: Zone 17S Easting 49211 Northing 4840111 Municipal Plan and Sublot Number: \_\_\_\_\_ Other WKQ-003941  
 NAD 83 A 0 - A 03

**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
<u>Brown</u>	<u>SAND</u>	<u>Gravel</u>		<u>0</u>	<u>7'</u>
<u>Grey</u>	<u>SAND</u>	<u>Silt</u>	<u>Wet</u>	<u>7'</u>	<u>18'</u>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
<u>0</u> <u>1'</u>	<u>Concrete / Flashment</u>	
<u>1'</u> <u>7'</u>	<u>Benseal</u>	
<u>7'</u> <u>18'</u>	<u>SAND</u>	

**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  Direct Push  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	
<u>2"</u>	<u>PVC</u>	<u>.25"</u>	<u>0</u>	<u>8'</u>	<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 checked="" 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	
<u>2.25"</u>	<u>PVC</u>	<u>10</u>	<u>8'</u>	<u>18'</u>	<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 checked="" 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 _____

**Water Details**

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To Diameter (cm/in)
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	<u>0</u> <u>18'</u> <u>4.25"</u>
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc. Well Contractor's Licence No.: 7241  
 Business Address (Street Number/Name): 147-2 West Beaver Creek Road Municipality: Richmond Hill  
 Province: Ontario Postal Code: L4B 1C6 Business E-mail Address: wrecords@stratasoil.com

Bus. Telephone No. (inc. area code): 905-764-9304 Name of Well Technician (Last Name, First Name): Murray Stary  
 Well Technician's Licence No.: 3018 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: 2011 07 08

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

**Map of Well Location**

Please provide a map below following instructions on the back.

*See Map MW1*

Comments: General contractor: EXP Services Incorporated

**Ministry Use Only**

Audit No.: 2134916  
 Received: AUG 05 2011  
 Well owner's information package delivered:  Yes  No  
 Date Package Delivered: 2011 06 24  
 Date Work Completed: \_\_\_\_\_

A 118816

## Well Location

Address of Well Location (Street Number/Name) Parkside Dr 85 St David St N.		Township	Lot	Concession
County/District/Municipality		City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 17S	Easting 492111	Northing 4840084	Municipal Plan and Sublot Number Other WKQ-003941 A 0 - A 03

## 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 Grey	SAND SAND	SILT	Mud/Wab	0	5' 14'

Annular Space		
Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)
0	4'	Benseal
4'	14'	SAND

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 type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input 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 checked="" type="checkbox"/> Test Hole	<input checked="" 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 checked="" type="checkbox"/> Other, specify	Direct Push	<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 checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
2"	PVC	0.25"	0	4'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2.25"	PVC	10	4'	14'

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) From	To Diameter (cm/in)
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	0	14' 4.25"
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		

Well Contractor and Well Technician Information	
Business Name of Well Contractor Strata Soil Sampling Inc.	Well Contractor's Licence No. 7 2 4 1
Business Address (Street Number/Name) 147-2 West Beaver Creek Road	Municipality Richmond Hill
Province Ontario	Postal Code L4B 1C6
Business E-mail Address wrecords@stratasoil.com	

Bus. Telephone No. (inc. area code) 905-764-9304	Name of Well Technician (Last Name, First Name) Murray Stacy
Well Technician's Licence No. 36182	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted 2011 07 08

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

Map of Well Location	
Please provide a map below following instructions on the back.	
See Map MW2	
Comments: General contractor: EXP Services Incorporated	

Ministry Use Only	
Audit No. z 134917	Received
Date Package Delivered 2011 07 08	Date Work Completed 2011 07 24
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

A118817

Measurements recorded in:  Metric  Imperial

Page 3 of 4

Well Location

Address of Well Location (Street Number/Name) Parkside Dr 288 St David E N Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_

County/District/Municipality \_\_\_\_\_ City/Town/Village Pergus Province Ontario Postal Code WKO-008941

UTM Coordinates Zone 8 Easting 17549195 Northing 4840086 Municipal Plan and Sublot Number \_\_\_\_\_ Other A 0 - A 03

**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
<u>Brown</u>	<u>SAND</u>			<u>0</u>	<u>5'</u>
<u>Grey</u>	<u>SAND</u>	<u>SILT</u>	<u>Moist / Wet</u>	<u>5'</u>	<u>14'</u>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<u>0</u> <u>3'</u>	<u>Benzonal</u>	
<u>3'</u> <u>14'</u>	<u>SAND</u>	

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

**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 Direct Push  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	
<u>2"</u>	<u>PVC</u>	<u>25"</u>	<u>0</u>	<u>4'</u>	<input type="checkbox"/> Water Supply <input checked="" type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
<u>2-25"</u>	<u>PVC</u>	<u>10</u>	<u>4'</u>	<u>14'</u>

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
<u>0</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>0</u> <u>14'</u>	<u>4-25"</u>
<u>0</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		
<u>0</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		

**Well Contractor and Well Technician Information**

Business Name of Well Contractor Strata Soil Sampling Inc. Well Contractor's Licence No. 7241

Business Address (Street Number/Name) 147-2 West Beaver Creek Road Municipality Richmond Hill

Province Ontario Postal Code L4B 1C6 Business E-mail Address wrecords@stratasoil.com

Bus. Telephone No. (inc. area code) 905-764-9304 Name of Well Technician (Last Name, First Name) Murray Stacy

Well Technician's Licence No. 3618 Signature of Technician and/or Contractor [Signature] Date Submitted 2011/07/08

**Map of Well Location**

Please provide a map below following instructions on the back.

*See MAP MW3*

General contractor: EXP Services Incorporated

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y Y Y Y M M D D <u>20110624</u>	Audit No. <u>z134919</u> AUG 05 2011 Received

A118818

 Measurements recorded in:  Metric  Imperial

8690 Page 4 of 4

Address of Well Location (Street Number/Name) 17549190 St David St. N		Township	Lot	Concession
County/District/Municipality		City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 17	Easting 549190	Northing 4840109	Municipal Plan and Sublot Number Other WKQ-003941 A 0 - A 03

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	SAND		Moist	0 5'
Grey	SAND	SILO	SATURATED	5' 14'

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 3'	Benseal	
3' 14'	SAND	

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 checked="" type="checkbox"/> Other, specify Direct Push	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Livestock <input checked="" type="checkbox"/> Test Hole <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Cooling & Air Conditioning <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 checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
2"	PVC	25"	0	4'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2-25"	PVC	10	4'	14'

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
		0 14'	4.25"

Well Contractor and Well Technician Information	
Business Name of Well Contractor Strata Soil Sampling Inc.	Well Contractor's Licence No. 7 2 4 1
Business Address (Street Number/Name) 147-2 West Beaver Creek Road	Municipality Richmond Hill
Province Ontario	Postal Code L4B 1C6
Business E-mail Address wrecords@stratasoil.com	

Bus. Telephone No. (inc. area code) 905-764-9304	Name of Well Technician (Last Name, First Name) Murray Stacy
Well Technician's Licence No. 3 6 1 8	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted 21 07 08

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

**Map of Well Location**  
Please provide a map below following instructions on the back.

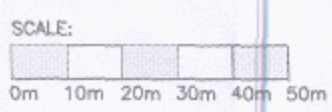
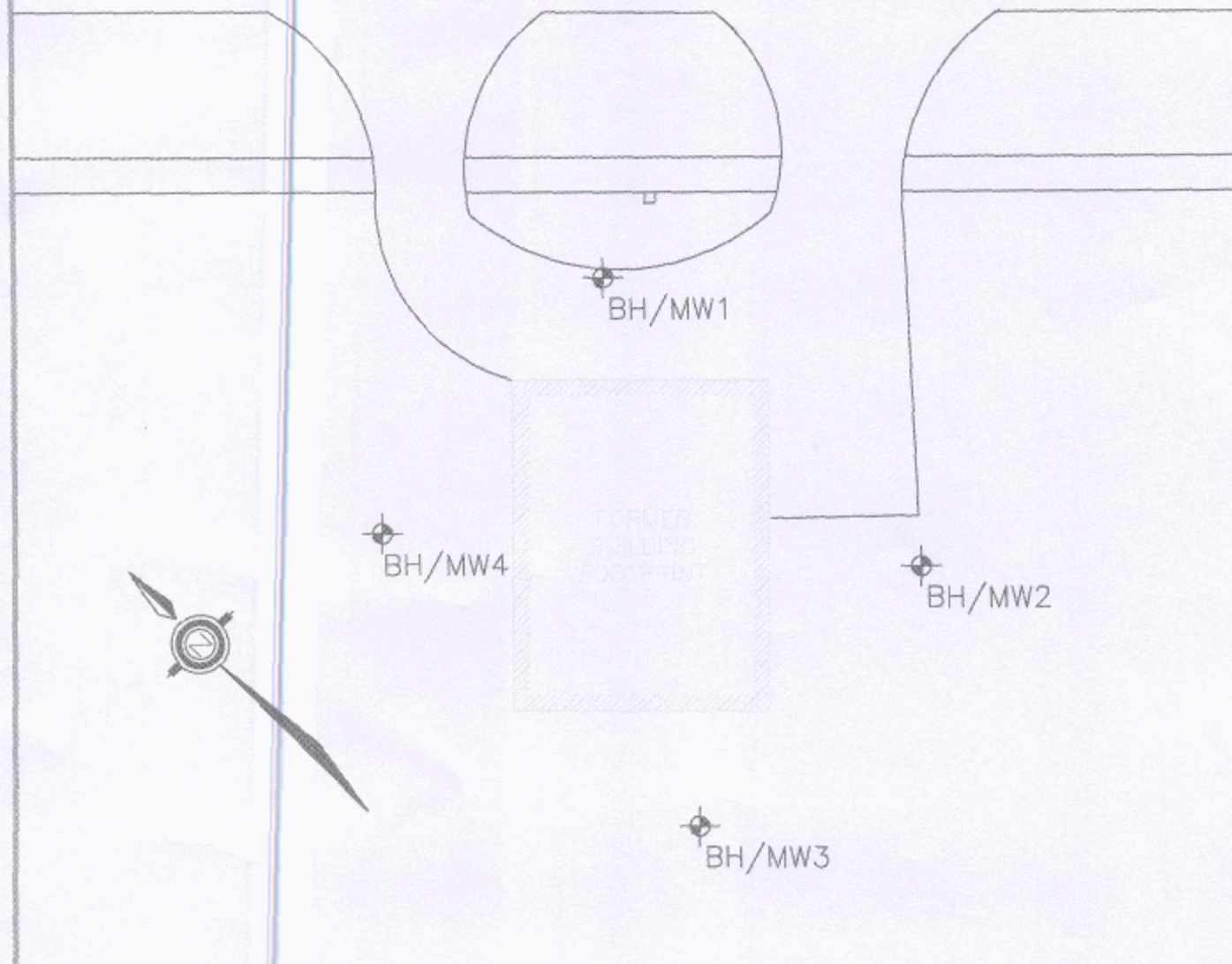
See Map MW 4


Comments: General contractor: EXP Services Incorporated

Ministry Use Only	
Audit No. z 134918	Received
Date Package Delivered YYYYMMDD	Date Work Completed 2011 06 24
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

8690

# ST. DAVID STREET NORTH



 BH/MW1 BOREHOLE/MONITORING WELL INSTALLED BY EXP - JUNE 2011



**exp Services Inc.**  
 t: 1.519.650.4918 f: 1.519.650.4603  
 405 Maple Grove Road, Unit 6,  
 Cambridge, ON N3E 1B6  
 Canada

Scale <b>AS NOTED</b>	<b>LIMITED PHASE II - ESA SMARTCENTRES SITE, ST. DAVID STREET NORTH, FERGUS, ONTARIO</b>	Project no. <b>KCH-00200564-D0</b>
Date <b>JUNE 2011</b>		<b>FIG. 2</b>
Drawn by <b>LAS</b>	TITLE: <b>BOREHOLE/MONITORING WELL LOCATION PLAN</b>	

2134916    2134919  
 2134917    2134918

AUG 05 2011

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Last Name / Organization: SMART CENTRES E-mail Address:  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 700 APPLEWOOD CRES. SUITE 100 Municipality: VAUGHAN Province: ONT Postal Code: L4K5X3 Telephone No. (inc. area code): 9057606200

Well Location

Address of Well Location (Street Number/Name): PARKSIDE DR. ST. DAVID STREET N. Township: Lot: Concession:

County/District/Municipality: City/Town/Village: FERGUS Province: Ontario Postal Code:

UTM Coordinates: Zone: Easting: Northing: 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	SAND	Fill/Gravel		0	5'
Brown	SAND			5'	10'
Brown	SAND		Web	10'	13'
Grey	SILT/TILL		Dense	13'	25'

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 - 1'	Concrete/Flushwood	
1' - 19'	Gravel	
19' - 25'	SAND	

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"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Other, specify: Direct Push	<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & Air Conditioning

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 checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
2"	PVC	25"	0	20'	

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
2.25"	PVC	10	20' - 25'	

Water Details		Hole Diameter	
Water found at Depth (m/ft): <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: To:	Diameter (cm/in):
Water found at Depth (m/ft): <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0 25'	5.75"

Well Contractor and Well Technician Information

Business Name of Well Contractor: STRATSOIL SUPPLY INC. Well Contractor's Licence No.: 72411

Business Address (Street Number/Name): 142-2 West Beaver Creek Rd. Highwood Hill

Province: ONT Postal Code: Business E-mail Address: info@stratsoil.com

Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): W. RECORDS

Well Technician's Licence No.: 3448 Signature of Technician and/or Contractor: Date Submitted: 2011 07 20

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
	5		5	
Final water level end of pumping (m/ft)	10		10	
If flowing give rate (l/min / GPM)	15		15	
Recommended pump depth (m/ft)	20		20	
Recommended pump rate (l/min / GPM)	25		25	
Well production (l/min / GPM)	30		30	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	40		40	
	50		50	
	60		60	

Map of Well Location

Please provide a map below following instructions on the back.

See MAP MW 5

Well owner's information package delivered		Date Package Delivered	Ministry Use Only	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Y/Y/Y/M/M/D/D	Audit No. z129631	Received AUG 05 2011
		Date Work Completed		
		2011 07 28		



A118793

A118793

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Last Name / Organization: Smart Centres E-mail Address:  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 700 Applewood Cres Suite 100 Municipality: VAUGHAN Province: ONT Postal Code: L4K 5R3 Telephone No. (inc. area code): 905 760 6200

Well Location

Address of Well Location (Street Number/Name): PARKSIDE DR & ST DAVID STREET N Township: Lot: Concession: City/Town/Village: FERRIS Province: Ontario Postal Code:

UTM Coordinates: Zone: 18 Easting: 549211 Northing: 4840113 Municipal Plan and Sublot Number: Other:

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

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To. Includes handwritten entries for sand, silt, and gravel.

Annular Space

Table with 3 columns: Depth Set at (m/ft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Includes handwritten entries for concrete and sand.

Results of Well Yield Testing

Table with 4 columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes handwritten entries for pumping rate and duration.

Method of Construction

Well Use

- Method of Construction:  Other, specify Drilled flush. Well Use:  Test Hole,  Monitoring.

Construction Record - Casing

Status of Well

Table with 4 columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From To. Includes handwritten entry for PVC casing.

Construction Record - Screen

Table with 4 columns: Outside Diameter, Material, Slot No., Depth (m/ft) From To. Includes handwritten entry for PVC screen.

Water Details

Hole Diameter

Table with 4 columns: Water found at Depth, Kind of Water, Depth (m/ft) From To, Diameter (cm/in). Includes handwritten entries for water depth and hole diameter.

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Inc. Well Contractor's Licence No.: 72411. Business Address: 142-2 West Beaver Creek Rd Richmond Hill.

Well Technician: Mike. Signature: [Signature]. Date Submitted: 2011 07 22.

Map of Well Location

Please provide a map below following instructions on the back. See Map MW 6.

Ministry Use Only section containing Audit No. z129630, Date Work Completed: 2011 07 08, and Received stamp.



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization <b>SMART CENTRES</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>700 Applewood Cres Suite 100</b>		Municipality <b>Vaughan</b>	Province <b>Ont.</b>
		Postal Code <b>L4K5X3</b>	Telephone No. (inc. area code) <b>9057606200</b>

**Well Location**

Address of Well Location (Street Number/Name) <b>Parkside Dr &amp; St David Street N</b>		Township	Lot	Concession
County/District/Municipality		City/Town/Village <b>Fergus</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates	Zone Easting	Northing	Municipal Plan and Sublot Number	
NAD 83	17S49226	4840094		

**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	Sand	Fill/Gravel		0	5'
Brown	Sand			5'	10'
Brown	Sand		WET	10'	13'
Grey	Silt/Clay		Dense	13'	17.5'

**Annular Space**

Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To		
0	1'	Concrete/Mortar	
1'	6.5'	Benseal	
6.5'	17.5'	Sand	

**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	
10		10		
If flowing give rate (l/min / GPM)	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	
50		50		
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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 type="checkbox"/> Rotary (Conventional)                        | <input type="checkbox"/> Jetting | <input 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 checked="" type="checkbox"/> Test Hole       | <input checked="" 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 checked="" type="checkbox"/> Other, specify <b>Direct Push</b> |                                  | <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)		Status of Well
			From	To	
2"	Pvc	1.25"	0	7.5'	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
2.25"	Pvc	10	7.5'	17.5'

**Water Details**
**Hole Diameter**

Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0	17.5'	5.75"
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested			

**Well Contractor and Well Technician Information**

Business Name of Well Contractor <b>Stata Soil Sampling Inc</b>	Well Contractor's Licence No. <b>7241</b>
Business Address (Street Number/Name) <b>#2-147 West Beaver Creek Rd.</b>	Municipality <b>Richmond Hill</b>
Province <b>ON</b>	Postal Code <b>L4B 1C6</b>
Business E-mail Address <b>lcpwrecords@statasoil.com</b>	
Bus. Telephone No. (inc. area code) <b>905 764 9304</b>	Name of Well Technician (Last Name, First Name) <b>MIND MIKE</b>
Well Technician's Licence No. <b>3448</b>	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted <b>2011 07 22</b>

Comments:

See MAP  
MW7

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>2011 07 08</b>	Ministry Use Only Audit No. <b>z 129629</b> AUG 05 2011 Received
	Date Work Completed <b>2011 07 08</b>	



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location: Address of Well Location (Street Number/Name), Township, Lot, Concession, City/Town/Village, Province, Postal Code

UTM Coordinates: Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³)

Method of Construction:  Cable Tool,  Rotary (Conventional),  Rotary (Reverse),  Boring,  Air percussion,  Other, specify Direct Push

Construction Record - Casing: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To

Construction Record - Screen: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details: Water found at Depth (m/ft), Kind of Water:  Fresh,  Untested,  Gas,  Other, specify

Well Contractor and Well Technician Information: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address

Well Contractor and Well Technician Information: Bus. Telephone No. (inc. area code), Name of Well Technician (Last Name, First Name), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Results of Well Yield Testing: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); 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?  Yes  No

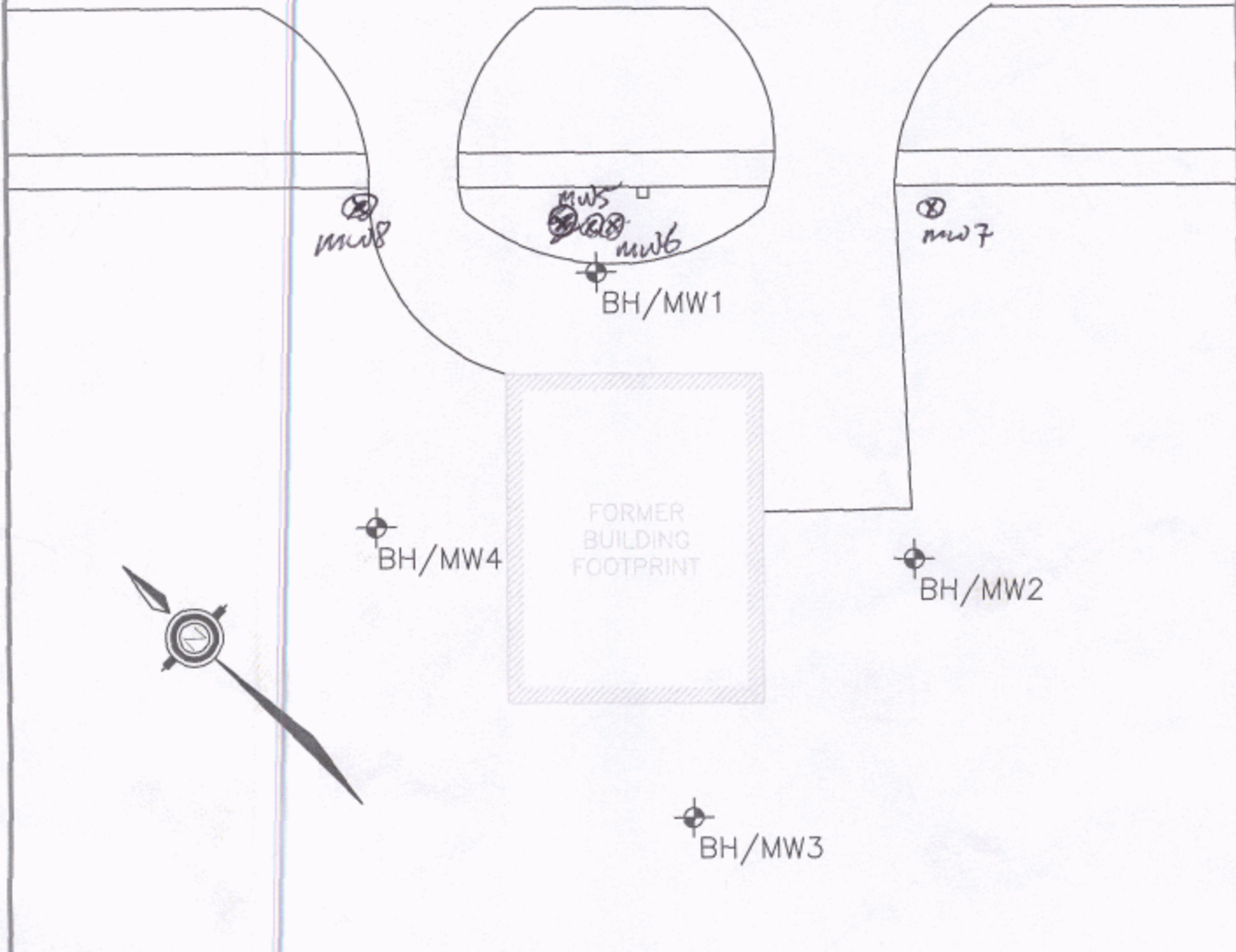
Map of Well Location

Please provide a map below following instructions on the back. See Map MW8

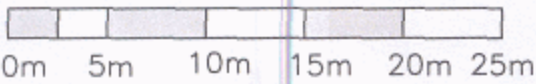
Comments; Well owner's information package delivered; Date Package Delivered; Date Work Completed; Ministry Use Only: Audit No. z129628, Received AUG 05 2011


8763

ST. DAVID STREET NORTH



SCALE:



 BH/MW1 BOREHOLE/MONITORING WELL INSTALLED BY EXP - JUNE 2011



**exp Services Inc.**  
 t: 1.519.650.4918 f: 1.519.650.4603  
 405 Maple Grove Road, Unit 6,  
 Cambridge, ON N3E 1B6  
 Canada

scale	AS NOTED
date	JUNE 2011
drawn by	LAS

TITLE:	LIMITED PHASE II - ESA
	SMARTCENTRES SITE, ST. DAVID STREET NORTH, FERGUS, ONTARIO
	BOREHOLE/MONITORING WELL LOCATION PLAN

project no.	KCH-00200564-D0
	FIG. 2

C4241 2129631 2129629 2129630 2129628 AUG 05 2011

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Smartcentre  
 Last Name / Organization: [Blank]  
 E-mail Address: [Blank]  Well Constructed by Well Owner  
 Mailing Address (Street Number/Name): 700 Applewood Crescent Suite 100  
 Municipality: Vaughan  
 Province: Ontario  
 Postal Code: L4K 5X3  
 Telephone No. (inc. area code): 416 760 6200

Well Location

Address of Well Location (Street Number/Name): 801 St David St W  
 Township: [Blank] Lot: [Blank] Concession: [Blank]  
 County/District/Municipality: [Blank] City/Town/Village: Fergus  
 Province: Ontario  
 Postal Code: [Blank]  
 UTM Coordinates: Zone: 17, Easting: 549216, Northing: 4839984  
 Municipal Plan and Sublot Number: [Blank] Other: [Blank]

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	sand	gravel	Loose	0	5'
grey	silt	fill	dense	5'	15'

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0' 11"	Concrete	
1' 9"	Reseal	
9' 15"	SAND	

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 checked="" type="checkbox"/> Other, specify Direct Push	<input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Livestock <input type="checkbox"/> Test Hole <input checked="" type="checkbox"/> Monitoring <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 checked="" 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	
1.75"	PVC	0.75"	0	10'	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC	10	10'	15'

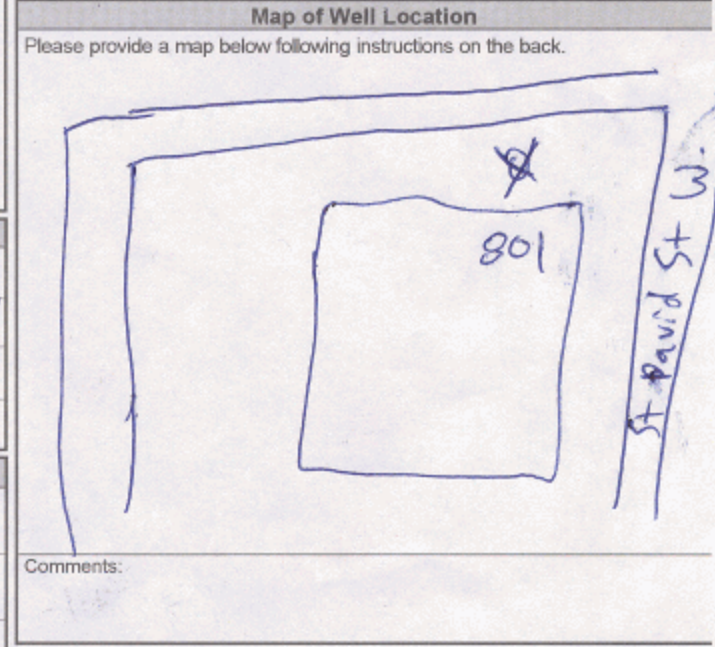
Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
0		0	4.5"

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Inc  
 Well Contractor's Licence No.: 7241  
 Business Address (Street Number/Name): 147 West Beaver Creek  
 Municipality: Richmond Hill  
 Province: Ontario  
 Postal Code: L4B 1C6  
 Business E-mail Address: wrcward@stratasoil.com

Bus. Telephone No. (inc. area code): 905 764 9304  
 Name of Well Technician (Last Name, First Name): Mike  
 Well Technician's Licence No.: 3448  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2011 09 25

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		



Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y   Y Y   M M   D D	Ministry Use Only Audit No. <b>z131003</b> NOV 01 2011 Received
	Date Work Completed Y Y   Y Y   M M   D D	



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Smart Centre, Last Name / Organization: Smart Centre, E-mail Address: [blank], Mailing Address: 700 Applewood Crescent Suite 100, Municipality: Vaughan, Province: Ontario, Postal Code: L4K 5X3, Telephone No.: 6760 6200

Well Location

Address of Well Location: 801 St David St W., Township: [blank], Lot: [blank], Concession: [blank], City/Town/Village: Fergus, Province: Ontario, Postal Code: [blank], UTM Coordinates: NAD 83, Zone: 17, Easting: 549216, Northing: 4839984

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft). Handwritten entries: Brown/grey, Sand/silt, gravel/till, Loose/Dense, 0-5' / 5'-15'.

Annular Space table with 3 columns: Depth Set at (m/ft), Type of Sealant Used, Volume Placed. Handwritten entries: 0-1', Concrete; 1'-9', Benseal; 9'-15', SAND.

Results of Well Yield Testing table with 4 columns: Draw Down, Recovery, Pumping rate, Duration of pumping. Includes a grid for draw down and recovery data.

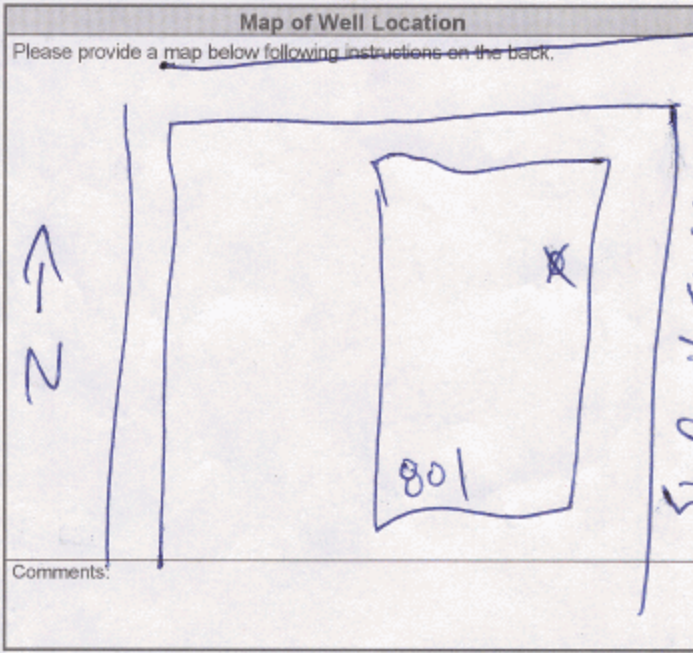
Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, Domestic, etc.

Construction Record - Casing table with 4 columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth. Handwritten entries: 1.75", PVC, 100.25", 0-10'.

Construction Record - Screen table with 4 columns: Outside Diameter, Material, Slot No., Depth. Handwritten entries: 2", PVC, 10, 10'-15'.

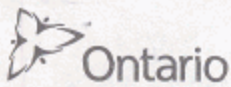
Water Details and Hole Diameter section with checkboxes for Fresh/Untested water and Depth/Diameter data.

Well Contractor and Well Technician Information section with Business Name: Strata Soil Sampling Inc, Business Address: 147 West Beaver Creek, and Technician Name: Mike.



Well owner's information and Date Package Delivered section with fields for Yes/No and Date Work Completed: 20/11/09/12.

Ministry Use Only section with Audit No. z131004 and Received date: NOV 01 2011.



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Smartcentre, Last Name / Organization: [blank], E-mail Address: [blank], Mailing Address: 700 Applewood Crescent Suite 100, Municipality: Vaughan, Province: Ontario, Postal Code: L4K 5X3, Telephone No.: 416 760 6200

Well Location

Address of Well Location: 801 St David St W., Township: [blank], Lot: [blank], Concession: [blank], County/District/Municipality: [blank], City/Town/Village: Fergus, Province: Ontario, Postal Code: [blank], UTM Coordinates: NAD 83 17 54 9 216 1983 9984

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft). Rows include: Brown/Grey, Sand/silt, gravel/fill, loose, DENSE, 0-5', 5'-15'

Annular Space table with 3 columns: Depth Set at (m/ft) From/To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Rows include: 0-1' Concrete, 1'-9' Benseal, 9'-15' SAND

Method of Construction and Well Use checkboxes. Method of Construction: Direct Push. Well Use: Monitoring.

Construction Record - Casing table with 4 columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From/To. Row: 1.75", PVC, 0.25", 0-10'

Status of Well checkboxes. Selected: Observation and/or Monitoring Hole.

Construction Record - Screen table with 4 columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From/To. Row: 2", PVC, 10, 10'-15'

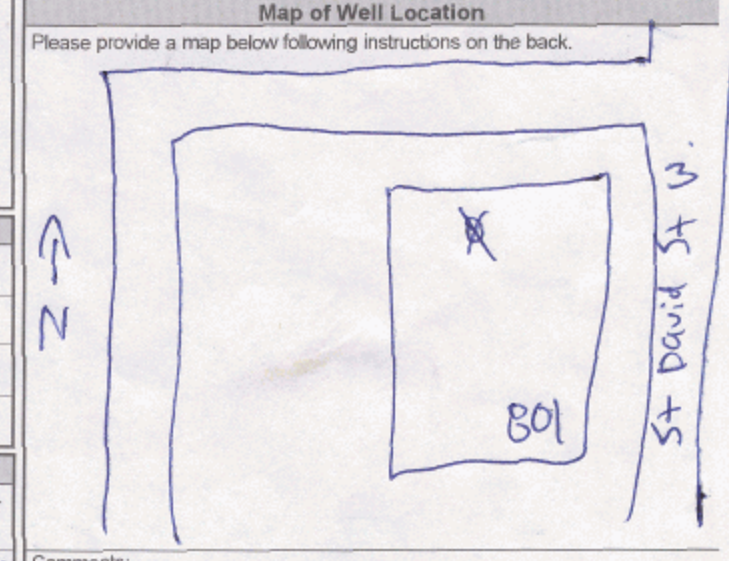
Water Details table with 3 rows for water found at depth, kind of water, gas, etc.

Hole Diameter table with 2 columns: Depth (m/ft) From/To, Diameter (cm/in). Row: 0-15', 4.5"

Well Contractor and Well Technician Information. Business Name: Strata Soil Sampling Inc, License No: 7241, Business Address: 147 West Beaver Creek, Municipality: Richmond Hill.

Well Technician's Licence No: 3448, Name: Mike, Date Submitted: 2011025

Results of Well Yield Testing table with 4 columns: Time (min), Water Level (m/ft), Time (min), Water Level (m/ft). Rows for draw down and recovery at various depths.



Ministry Use Only section with Audit No: z131006, Date Work Completed: 20110912, Received: NOV 01 2011

Measurements recorded in:  Metric  Imperial

9031 Page 4 of 10

Well Owner's Information

First Name: Smartcentre  
 Last Name / Organization: [Blank]  
 E-mail Address: [Blank]  Well Constructed by Well Owner  
 Mailing Address (Street Number/Name): 700 Applewood Crescent Suite 100  
 Municipality: Vaughan  
 Province: Ontario  
 Postal Code: L4K5X3  
 Telephone No. (inc. area code): 416 760 6200

Well Location

Address of Well Location (Street Number/Name): 801 St David St W.  
 Township: [Blank] Lot: [Blank] Concession: [Blank]  
 County/District/Municipality: [Blank] City/Town/Village: Fergus  
 Province: Ontario  
 Postal Code: [Blank]  
 UTM Coordinates: Zone Easting Northing  
 NAD 83 17 549 216 4839984  
 Municipal Plan and Sublot Number: [Blank] Other: [Blank]

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	Sand	gravel	Loose	0	5'
Grey	Silt	fill	Dense	5'	15'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 to 1'	Concrete	
1' to 9'	Benseal	
9' to 15'	SAND	

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

**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 Direct Push  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	
1.75"	PVC	0.25"	0	10'	<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 checked="" 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**

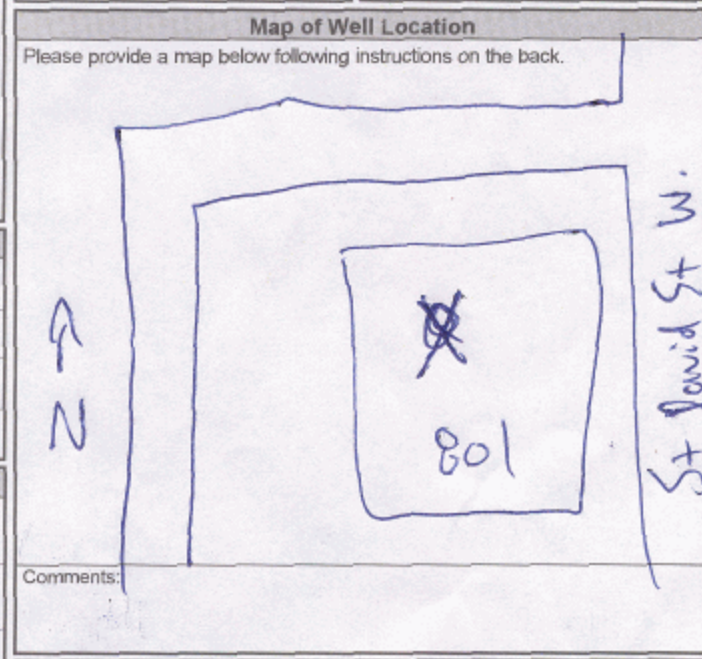
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC	10	10'	15'

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0 to 15'	4.5"
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc  
 Well Contractor's Licence No.: 7241  
 Business Address (Street Number/Name): 147 West Beaver Creek  
 Municipality: Richmond Hill  
 Province: Ontario  
 Postal Code: L4B 1C6  
 Business E-mail Address: wcurd@sstrataoil.com  
 Bus. Telephone No. (inc. area code): 905 764 9304  
 Name of Well Technician (Last Name, First Name): Mike  
 Well Technician's Licence No.: 3448  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2011 10 25



**Well owner's information package delivered**  Yes  No

**Date Package Delivered** Y|Y|Y|Y|M|M|D|D: 20110912

**Date Work Completed** Y|Y|Y|Y|M|M|D|D: 20111025

**Ministry Use Only**

Audit No.: z131007  
 NOV 01 2011  
 Received

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: Smartcentre Last Name / Organization: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 700 Applewood Crescent Suite 100 Municipality: Vaughan Province: Ontario Postal Code: L4K 5X3 Telephone No. (inc. area code): 416 760 6200

**Well Location**

Address of Well Location (Street Number/Name): 801 St David St W Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates: Zone 17 Easting 549216 Northing 4839984 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	Sand	gravel	loose	0	5'
Grey	Silt	till	Dense	5'	15'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 - 1'	Concrete	
1' - 9'	Benseal	
9' - 15'	SAND	

**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	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
	15		15	
If flowing give rate (l/min / GPM)	20		20	
	25		25	
	30		30	
	40		40	
Recommended pump rate (l/min / GPM)	50		50	
	60		60	

**Method of Construction**

Cable Tool  Diamond  
 Rotary (Conventional)  Jetting  
 Rotary (Reverse)  Driving  
 Boring  Digging  
 Air percussion  Direct Push  
 Other, specify \_\_\_\_\_

**Well Use**

Public  Commercial  Not used  
 Domestic  Municipal  Rewatering  
 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)	
			From	To
1.75"	PVC	0.25"	0	10'

**Status of Well**

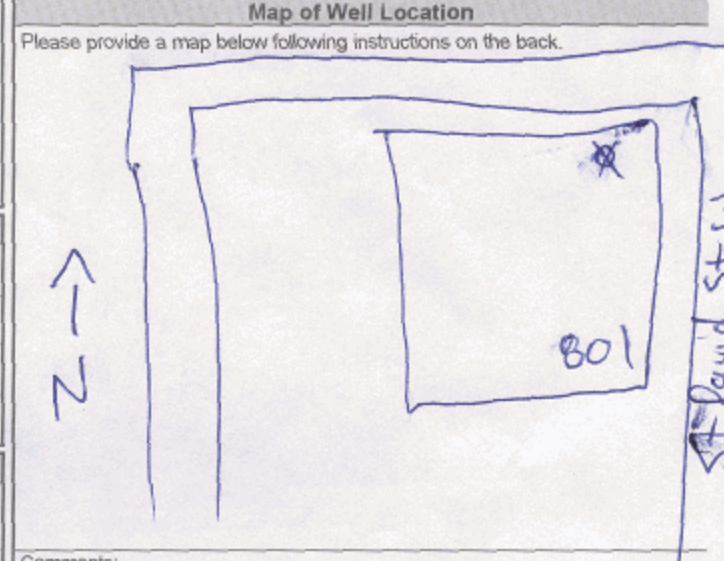
Water Supply  
 Replacement Well  
 Test Hole  
 Recharge Well  
 Dewatering Well  
 Observation and/or Monitoring Hole  
 Alteration (Construction)  
 Abandoned, Insufficient Supply  
 Abandoned, Poor Water Quality  
 Abandoned, other, specify \_\_\_\_\_  
 Other, specify \_\_\_\_\_

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC	10	10'	15'

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 - 15'	4.5"



**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 72411

Business Address (Street Number/Name): 147 West Beaver Creek Municipality: Richmond Hill

Province: Ontario Postal Code: L4B 1C6 Business E-mail Address: wirewards@stratasoil.com

us. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Mike

Well Technician's Licence No.: 448 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: 2011 10 25

**Ministry Use Only**

Audit No.: **2131005**

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2011 09 12

Received: NOV 01 2011



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Smart Centre Last Name / Organization: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 700 Applewood Crescent Suite 100 Municipality: Vaughan Province: Ontario Postal Code: L4K 5X3 Telephone No. (inc. area code): 416 760 6200

Well Location

Address of Well Location (Street Number/Name): 801 St David St W. Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates Zone Easting Northing: 17 549 921 6 983 998 4 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
<u>brown</u>	<u>Sand</u>	<u>gravel</u>	<u>loose</u>	<u>0</u>	<u>5'</u>
<u>grey</u>	<u>silt</u>	<u>fill</u>	<u>dense</u>	<u>5'</u>	<u>15'</u>

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From: <u>0</u> To: <u>1'</u>	<u>Concrete</u>	
From: <u>1'</u> To: <u>9'</u>	<u>Benseal</u>	
From: <u>9'</u> To: <u>15'</u>	<u>SAND</u>	

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<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"/> Digging	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Other, specify <u>Direct Push</u>		<input type="checkbox"/> Other, specify _____	<input checked="" type="checkbox"/> Dewatering

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 checked="" 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	
<u>1.75"</u>	<u>PVC</u>	<u>0.25"</u>	<u>0</u>	<u>10'</u>	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
<u>2"</u>	<u>PVC</u>	<u>10</u>	<u>10'</u>	<u>15'</u>

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: <u>0</u> To: <u>15'</u>	Diameter (cm/in): <u>4.5"</u>
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information

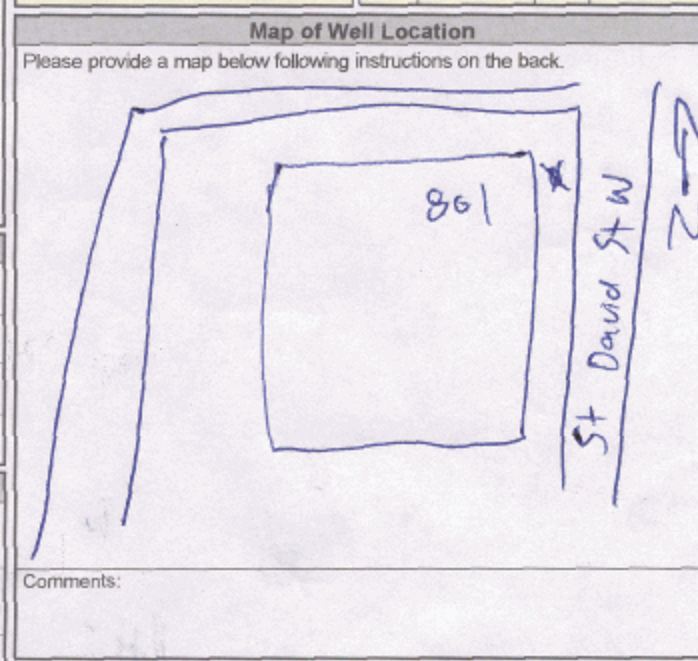
Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 47 West Beaver Creek Municipality: Richmond Hill

Province: Ontario Postal Code: L4B 1C6 Business E-mail Address: wrecords@stratasoil.com

Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Maier, Mike

Well Technician's Licence No.: 3448 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20111025



Well owner's information package delivered:  Yes  No

Date Package Delivered: 20110912

Date Work Completed: 20111025

Ministry Use Only

Audit No.: 131002

NOV 01 2011

Received

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: \_\_\_\_\_ Last Name / Organization: **Smart Centre** E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): **700 Applewood Crescent, suite 100** Municipality: **Vaughan** Province: **ON** Postal Code: **L4A 5X3** Telephone No. (inc. area code): **(416) 760-6200**

Well Location

Address of Well Location (Street Number/Name): **801 St. David St. North** Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: **Fergus** Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: \_\_\_\_\_ Easting: **117549216** Northing: **4839984** 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	sand	gravel	loose	0	4
grey	silt	fill	dense, hard	4	4.8

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
0 - 31	Concrete	.0026	
31 - 1.5	Bentonite	.0056	
1.5 - 4.8	5/16" Sand	.0154	

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 checked="" type="checkbox"/> Other, specify <b>Direct Bsh</b>	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____ <input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring

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 checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
5.20	PVC	.45	0	1.8	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.10	PVC	10	1.8	4.8

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: 0 To: 4.8	Diameter (cm/in): 10.9
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Strata Soil Sampling Inc** Well Contractor's Licence No.: **72411**

Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B 1C6** Business E-mail Address: **wrecords@stratasoil.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **Eric Langan**

Well Technician's Licence No.: **3617** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2011 10 07**

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

**Map of Well Location**

Please provide a map below following instructions on the back.

well  
1m East of fence  
12m West of building

St. David St. N

Comments: \_\_\_\_\_

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input type="checkbox"/> No	Y Y Y Y M M D D 2011 09 13	Audit No. <b>2129637</b> NOV 01 2011 Received

Measurements recorded in:  Metric  Imperial

**A113532**

A113532

9034

Page 8 of 10

**Well Owner's Information**

First Name	Last Name / Organization Smart Centre	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 700 Applewood Crescent, suite 100	Municipality Vaughan	Province ON	Postal Code L4K5X3
		Telephone No. (inc. area code) (416) 760-6200	

**Well Location**

Address of Well Location (Street Number/Name) 801 St David St N	Township	Lot	Concession
County/District/Municipality	City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates NAD 83 175492104839958	Zone Easting	Northing	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	sand	gravel	loose	0	3.5
grey	silt	fill	dense, hard	3.5	4.5

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 - 0.31	Concrete	1.0026
0.31 - 1.2	Bentonite	0.0042
1.2 - 4.5	Silica Sand	1.0154

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 checked="" type="checkbox"/> Other, specify Direct RSL	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring

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)	
			From	To
5.20	PVC	1.45	0	1.5

Water Supply  
 Replacement Well  
 Test Hole  
 Recharge Well  
 Dewatering Well  
 Observation and/or Monitoring Hole  
 Alteration (Construction)  
 Abandoned, Insufficient Supply  
 Abandoned, Poor Water Quality  
 Abandoned, other, specify  
 Other, specify

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.10	PVC	10	1.5	4.5

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)
0		0 - 4.5	10.9

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Soil Sampling Inc	Well Contractor's Licence No. 72241	Business Address (Street Number/Name) 1472 West Beaver Creek Rd	Municipality Richmond Hill
Province ON	Postal Code L4B1C6	Business E-mail Address wrecor@strataso1.com	
Bus. Telephone No. (inc. area code) 9057649304	Name of Well Technician (Last Name, First Name) Euz London	Well Technician's Licence No. 3617	Signature of Technician and/or Contractor <i>[Signature]</i>
		Date Submitted 2011/10/07	

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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

Map of Well Location	
Please provide a map below following instructions on the back.	
Im East of fence 50m South of N fence line.	
Comments:	

Well owner's information package delivered		Date Package Delivered	Ministry Use Only	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Y Y Y Y M M D D 2011 09 13	Audit No. Z129635	Received NOV 01 2011

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name): 815 St. David St. N  
 Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_  
 UTM Coordinates: Zone: 17 Easting: 549177 Northing: 4840163  
 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	gravel	sand	loose	0	2
brown	course sand		soft	2	4

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 -31	Concrete	.0026
31 2.2	Bentonite	.0084
2.2 4	Silica Sand	.0084

**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	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
Recommended pump depth (m/ft)	60		60	
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> 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 Direct Push

**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	
5.20	PVC	.45	0	2.5	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
6.10	PVC	10	2.5	4	<input type="checkbox"/> Other, specify

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter		
		Depth (m/ft) From To	Diameter (cm/in)	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	4	10.9
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc. Well Contractor's Licence No.: 712411  
 Business Address (Street Number/Name): 47-2 West Beaver Creek rd. Municipality: Richmond Hill  
 Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Business E-mail Address: \_\_\_\_\_  
 Business Telephone No. (inc. area code): 905-764-9304 Name of Well Technician (Last Name, First Name): Eric Langdon  
 Well Technician's Licence No.: 36117 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011/09/16

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: Parkside

**Well owner's information package delivered**  Yes  No

Date Package Delivered: 2011/08/27

Date Work Completed: \_\_\_\_\_

**Ministry Use Only**

Audit No.: z129718

Received: NOV 15 2011

Measurements recorded in:  Metric  Imperial

**A114279**

A114279

8971

Page 2 of 7

Address of Well Location (Street Number/Name) 815 St. David St. N		Township	Lot	Concession
County/District/Municipality		City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 17	Easting 549178	Northing 4840141	Municipal Plan and Sublot Number

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	gravel	sand	loose	0 2
brown	course sand		soft	2 4.5

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 .31	Concrete	.0026
.31 1.2	Bentonite	.0042
1.2 4.5	S. Iza Sand	.0154

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	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No				

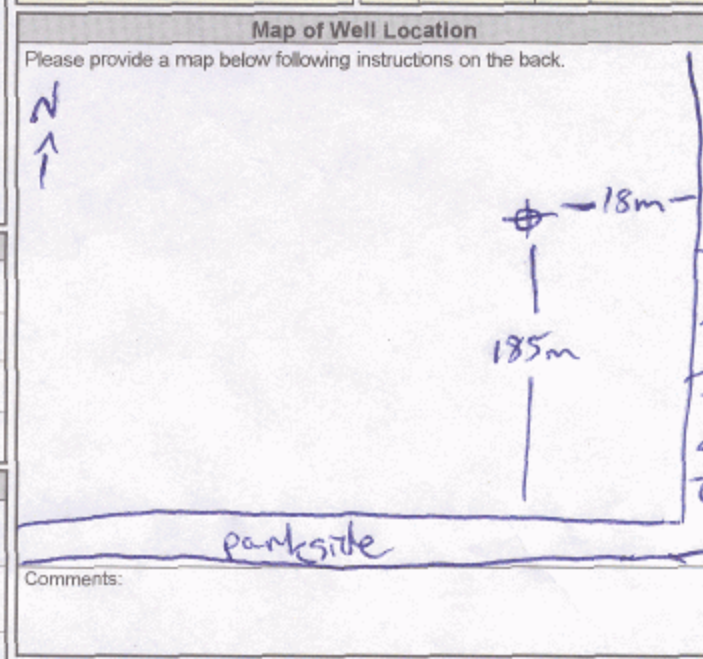
Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole	<input checked="" 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 checked="" type="checkbox"/> Other, specify Street Rush		<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 checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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	
5.20	PVC	.45	0	1.5	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.10	PVC	10	1.5	4.5

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0 4.5	10.9
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Soil Sampling Inc	Well Contractor's Licence No. 712411	Business Address (Street Number/Name) 147-2 West Beaver Creek rd.	Municipality Richmond Hill
Province On	Postal Code L4B1C6	Business E-mail Address wrecords@stratasoil.com	
Bus. Telephone No. (inc. area code) 9057649304	Name of Well Technician (Last Name, First Name) Eric Langdon	Well Technician's Licence No. 3617	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted 2011 09 16		



Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Y Y Y Y	M M D D	Audit No.	z129741
		Date Work Completed		Record No.	NOV 15 2011

Measurements recorded in:  Metric  Imperial

**A114278**

A114278

Page 2 of 7

Address of Well Location (Street Number/Name) 815 St. David St N		Township	Lot	Concession
County/District/Municipality		City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD 83	17	549143	4840165	

**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	gravel	Sand	loose	0	2
Brown	course sand		Soft	2	4.5

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
0 - 31	Concrete	.0026	
31 - 1.2	Bentonite	.0042	
1.2 - 4.5	Silica Sand	.0154	

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 type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify				
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	
	10		10	
If flowing give rate (l/min / GPM)	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	
	50		50	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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 type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input 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 checked="" type="checkbox"/> Test Hole	<input checked="" 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 checked="" 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)		
			From	To	
5.20	PVC	.45	0	1.5	<input checked="" type="checkbox"/> Test Hole

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
6.10	PVC	10	1.5	4.5

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
		0	4.5
			10.9

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Soil Sampling Inc	Well Contractor's Licence No. 7 2 4 1		
Business Address (Street Number/Name) 147-2 West Beaver Creek rd.	Municipality Richmond Hill		
Province On	Postal Code L4B 1C6	Business E-mail Address wrecords@stratasoil.com	

Bus. Telephone No. (inc. area code) 905 764 9304	Name of Well Technician (Last Name, First Name) Eric Langdon		
Well Technician's Licence No. 3617	Signature of Technician and/or Contractor <i>[Signature]</i>		Date Submitted 2011 09 16

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information		Ministry Use Only	
Date Package Delivered Y Y Y Y M M D D	Date Work Completed Y Y Y Y M M D D	Audit No. z 129736	Received NOV 15 2011
<input type="checkbox"/> Yes <input type="checkbox"/> No			

Measurements recorded in:  Metric  Imperial

**A114277**

A114277

8971

Page 4 of 7

Address of Well Location (Street Number/Name): 815 St. David St. N  
 Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: **Ontario** Postal Code: \_\_\_\_\_  
 UTM Coordinates: Zone 17 Easting 549140 Northing 4840144 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
<u>brown</u>	<u>gravel</u>	<u>Sand</u>	<u>loose</u>	<u>0</u>	<u>2</u>
<u>brown</u>	<u>course sand</u>		<u>soft</u>	<u>2</u>	<u>4.5</u>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
<u>0 - 0.31</u>	<u>Concrete</u>	<u>.0026</u>
<u>0.31 - 1.2</u>	<u>Bentonite</u>	<u>.0042</u>
<u>1.2 - 4.5</u>	<u>Siltice Sand</u>	<u>.0154</u>

**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 type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
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	
Recommended pump depth (m/ft)	20		20	
Recommended pump rate (l/min / GPM)	25		25	
Well production (l/min / GPM)	30		30	
Disinfected?	40		40	
	50		50	
	60		60	

**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 Direct Push  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	
<u>5.20</u>	<u>Pvc</u>	<u>.45</u>	<u>0</u>	<u>1.5</u>	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
<u>6.10</u>	<u>Pvc</u>	<u>10</u>	<u>1.5</u>	<u>4.5</u>

**Water Details**

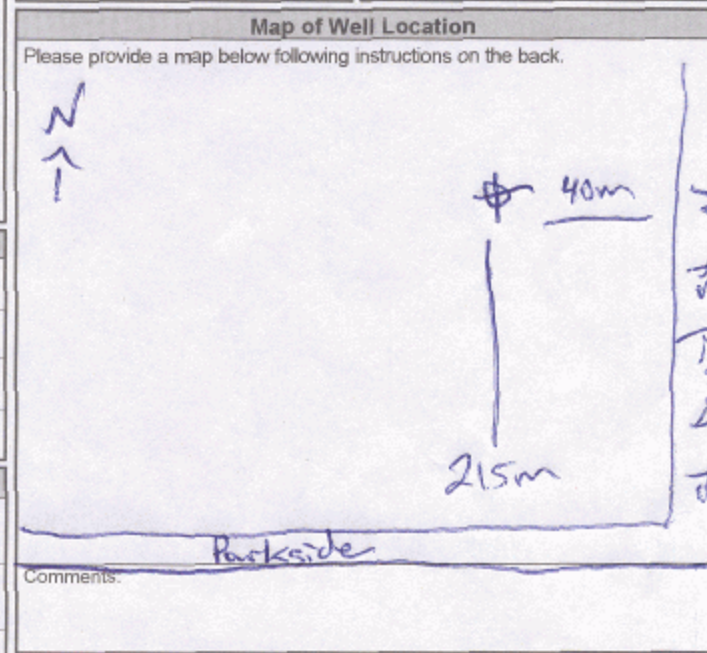
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	
<input type="checkbox"/> Gas <input type="checkbox"/>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

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
<u>0 - 4.5</u>	<u>10.9</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 7241  
 Business Address (Street Number/Name): 147-2 West Beaver Creek rd. Municipality: Richmond Hill  
 Province: On Postal Code: L4B 1C6 Business E-mail Address: wbeard@stratasoil.com  
 Bus. Telephone No. (inc. area code): 905-764-9304 Name of Well Technician (Last Name, First Name): Eric Longdon  
 Well Technician's Licence No.: 3617 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011/09/10



**Ministry Use Only**

Audit No.: z129737  
 Received: NOV 15 2011  
 Well owner's information package delivered:  Yes  No  
 Date Package Delivered: 2011/09/27  
 Date Work Completed: \_\_\_\_\_

Measurements recorded in:  Metric  Imperial

8971 Page 5 of 7

Address of Well Location (Street Number/Name) 815 St. David St. Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_  
 County/District/Municipality \_\_\_\_\_ City/Town/Village Fergus Province Ontario Postal Code \_\_\_\_\_  
 UTM Coordinates Zone Easting Northing \_\_\_\_\_ Municipal Plan and Sublot Number \_\_\_\_\_ Other \_\_\_\_\_  
 NAD 83 17549153 4840155

**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
<u>brown</u>	<u>gravel</u>	<u>sand</u>	<u>loose</u>	<u>0</u>	<u>2</u>
<u>brown</u>	<u>course sand</u>		<u>silt</u>	<u>2</u>	<u>4.5</u>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<u>0 - 31</u>	<u>Concrete</u>	<u>.0026</u>
<u>.31 - 1.2</u>	<u>Bentonite</u>	<u>.0042</u>
<u>1.2 - 4.5</u>	<u>Silica Sand</u>	<u>.0154</u>

**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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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  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 direct push  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	
<u>5.20</u>	<u>PVC</u>	<u>.45</u>	<u>0</u>	<u>1.5</u>	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
<u>6.10</u>	<u>PVC</u>	<u>10</u>	<u>1.5</u>	<u>4.5</u>

**Water Details**

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

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
<u>0 - 4.5</u>	<u>10.9</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor Strata Soil Sampling Inc Well Contractor's Licence No. 72411  
 Business Address (Street Number/Name) 147-2 West Beaver Creek rd. Municipality Richmond Hill  
 Province On Postal Code L4B1C6 Business E-mail Address wrecords@stratasoil.com

Bus. Telephone No. (inc. area code) 9057649304 Name of Well Technician (Last Name, First Name) Eric Langdon  
 Well Technician's Licence No. 3617 Signature of Technician and/or Contractor [Signature] Date Submitted 2011/09/10

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered  Yes  No

Date Package Delivered Y|Y|Y|Y|M|M|D|D  
 Date Work Completed 2011|08|27

**Ministry Use Only**

Audit No. z129738  
 NOV 15 2011  
 Received \_\_\_\_\_



Measurements recorded in:  Metric  Imperial

A114275

A114275

8971 Page 6 of 7

Address of Well Location (Street Number/Name) **815 St. David St**  
 County/District/Municipality \_\_\_\_\_ Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_  
 City/Town/Village **Fergus** Province **Ontario** Postal Code \_\_\_\_\_  
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other  
 NAD 83 **17 549161 4840145**

**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	gravel	sand	loose	0	2
brown	course sand		soft	2	4.5

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 -31	Concrete	.0026
-31 1.2	Bentonite	.0042
1.2 4.5	Silica Sand	.0154

**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 type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
	4		4	
Duration of pumping _____ hrs + _____ min	5		5	
Final water level end of pumping (m/ft)	10		10	
	15		15	
If flowing give rate (l/min / GPM)	20		20	
	25		25	
Recommended pump depth (m/ft)	30		30	
	40		40	
Recommended pump rate (l/min / GPM)	50		50	
	60		60	
Well production (l/min / GPM)				
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> 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 **Street Push**  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	
5.20	PVC	.45	0	1.5	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
6.10	PVC	10	1.5	4.5

**Water Details**

Water found at Depth (m/ft)	Kind of Water:	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	From To	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 4.5	10.9

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Strata Soil Sampling Inc** Well Contractor's Licence No.: **72411**  
 Business Address (Street Number/Name): **147-2 West Beaver Creek rd.** Municipality: **Richmond Hill**  
 Province: **On** Postal Code: **L4B1C6** Business E-mail Address: **wreard@stratasoil.com**  
 Bus. Telephone No. (inc. area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **Eric Langdon**  
 Well Technician's Licence No.: **31017** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **20110916**

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

**Well owner's information package delivered**  Yes  No

Date Package Delivered: **Y Y Y Y M M D D**  
 Date Work Completed: **20110827**

**Ministry Use Only**  
 Audit No.: **z 129739**  
 NOV 15 2011  
 Received

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name): 815 St. David St.  
 Township: Fergus  
 County/District/Municipality: Fergus  
 City/Town/Village: Fergus  
 Province: Ontario  
 Postal Code:   
 UTM Coordinates: Zone 17, Easting 549151, Northing 4840137  
 Municipal Plan and Sublot Number:   
 Other:   
 Concession:   
 Depth (m/ft) From To: 0 2

**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	Depth (m/ft) To
brown	gravel	sand	loose	0	2
brown	course sand		soft wet	2	4.5

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0	0.31	Concrete	0.0026
0.31	1.2	Bentonite	0.0042
1.2	4.5	Silica Sand	0.0154

**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 Direct Ash  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) From	Depth (m/ft) To	Status of Well
5.20	PVC	.45	0	1.5	<input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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) From	Depth (m/ft) To
6.10	PVC	10	1.5	4.5

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	4.5	10.9

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc. Well Contractor's Licence No.: 72411  
 Business Address (Street Number/Name): 147-2 West Beaver Creek rd. Municipality: Richmond Hill  
 Province: On Postal Code: Business E-mail Address: On 14 Blicio wrecordestratasoil.com  
 Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Eric Langdon  
 Well Technician's Licence No.: 3617 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011 09 16

**Results of Well Yield Testing**

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

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):

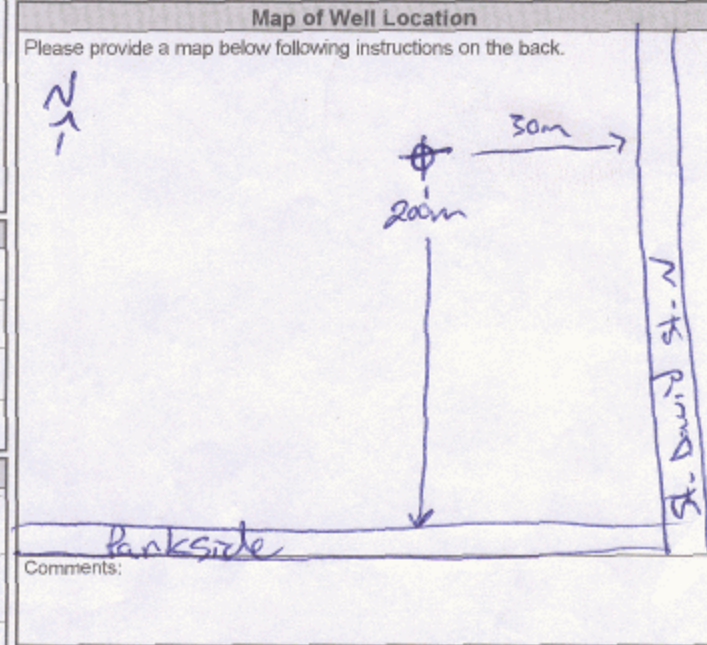
Recommended pump depth (m/ft):

Recommended pump rate (l/min / GPM):

Well production (l/min / GPM):

Disinfected?  Yes  No

Static Level	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
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	



**Well owner's information package delivered**  Yes  No

Date Package Delivered: Y Y Y Y M M D D: 2011 08 27

Date Work Completed: 2011 08 27

**Ministry Use Only**

Audit No.: z129740

Received: NOV 15 2011

ABANDONMENT

Measurements recorded in:  Metric  Imperial

Page 1 of 1

Address of Well Location (Street Number/Name): 0015 VICTORIA CRES  
 Township: NICHOL  
 Lot: 19  
 Concession: 15  
 County/District/Municipality: WELLINGTON  
 City/Town/Village: FERGUS  
 Province: Ontario  
 Postal Code: N1M2W3  
 UTM Coordinates: NAD 83 17 5488 13484 00 19  
 Municipal Plan and Sublot Number: [Blank]  
 Other: [Blank]

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	Depth (m/ft) To
	DECOMMISSION	3' x 9' DUG WELL	NATIVE	0	3
			BENTONITE	3	4
			FILL	4	8
			BENTONITE	8	9

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )

**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	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
Pump intake set at (m/ft)	15		15	
	20		20	
	25		25	
	30		30	
Pumping rate (l/min / GPM)	40		40	
	50		50	
	60		60	
Duration of pumping _____ hrs + _____ min	Recommended pump depth (m/ft)			
	Recommended pump rate (l/min / GPM)			
Final water level end of pumping (m/ft)	Well production (l/min / GPM)			
	Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input 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**

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	
					<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 _____

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

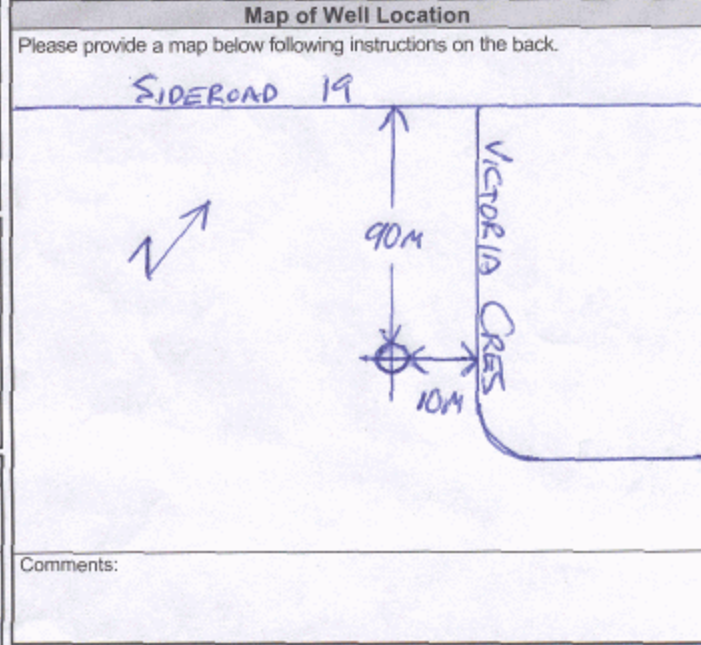
**Water Details**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: WELL INITIATIVES  
 Well Contractor's Licence No.: 7221  
 Business Address (Street Number/Name): Box 416  
 Municipality: ON  
 Province: ELORA  
 Postal Code: N0B1S0  
 Business E-mail Address: [Blank]

Bus. Telephone No. (inc. area code): 5198468289  
 Name of Well Technician (Last Name, First Name): H BROADFOOT  
 Well Technician's Licence No.: 1897  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2011/10/30



Comments: [Blank]

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered: Y Y Y Y M M D D Date Work Completed: 2011/10/14	<b>Ministry Use Only</b> Audit No.: 2137811 NOV 29 2011 Received
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Measurements recorded in:  Metric  Imperial

Page \_\_\_ of \_\_\_

Well Owner's Information

First Name <b>Fergus Shopping Centres Ltd.</b>	Last Name / Organization <b>[Redacted]</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>100 Applewood Cres., Suite 100</b>		Municipality <b>Vaughan</b>	Province <b>ON</b>
		Postal Code <b>L4K1SXB</b>	Telephone No. (inc. area code) <b>416 760 6200</b>

Well Location

Address of Well Location (Street Number/Name) <b>St. David St. N. + Woodhill Dr.</b>		Township <b>Nichol</b>	Lot	Concession
County/District/Municipality <b>Wellington</b>		City/Town/Village <b>Fergus</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting <b>NAD 83 117549211</b>	Northing <b>4840069</b>	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
<b>brown</b>	<b>sand</b>	<b>stones</b>		<b>0</b>	<b>3</b>
<b>brown</b>	<b>silt</b>	<b>stones</b>		<b>3</b>	<b>4.5</b>

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<b>0 to 0.3</b>	<b>concrete</b>	
<b>0.3 to 1.2</b>	<b>bentonite chips</b>	
<b>1.2 to 4.5</b>	<b>sand</b>	

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

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 checked="" 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	
<b>5.1</b>	<b>plastic</b>	<b>0.65</b>	<b>0</b>	<b>1.5</b>	

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		
			From	To	
<b>6.4</b>	<b>plastic</b>	<b>10</b>	<b>1.5</b>	<b>4.5</b>	

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify	Depth (m/ft) From	Diameter (cm/in) To
		<b>0</b>	<b>21</b>
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify		
Water found at Depth (m/ft) <input type="checkbox"/> Gas	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Ardurk Drilling Inc.</b>		Well Contractor's Licence No. <b>710318</b>	
Business Address (Street Number/Name) <b>25 Lewis Road, Unit C</b>		Municipality <b>Guelph</b>	
Province <b>ON</b>	Postal Code <b>N1H1E9</b>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <b>5198269340</b>	Name of Well Technician (Last Name, First Name) <b>Gordon, Michal</b>		
Well Technician's Licence No. <b>31590</b>	Signature of Technician and/or Contractor <b>[Signature]</b>	Date Submitted <b>2011/00/14</b>	

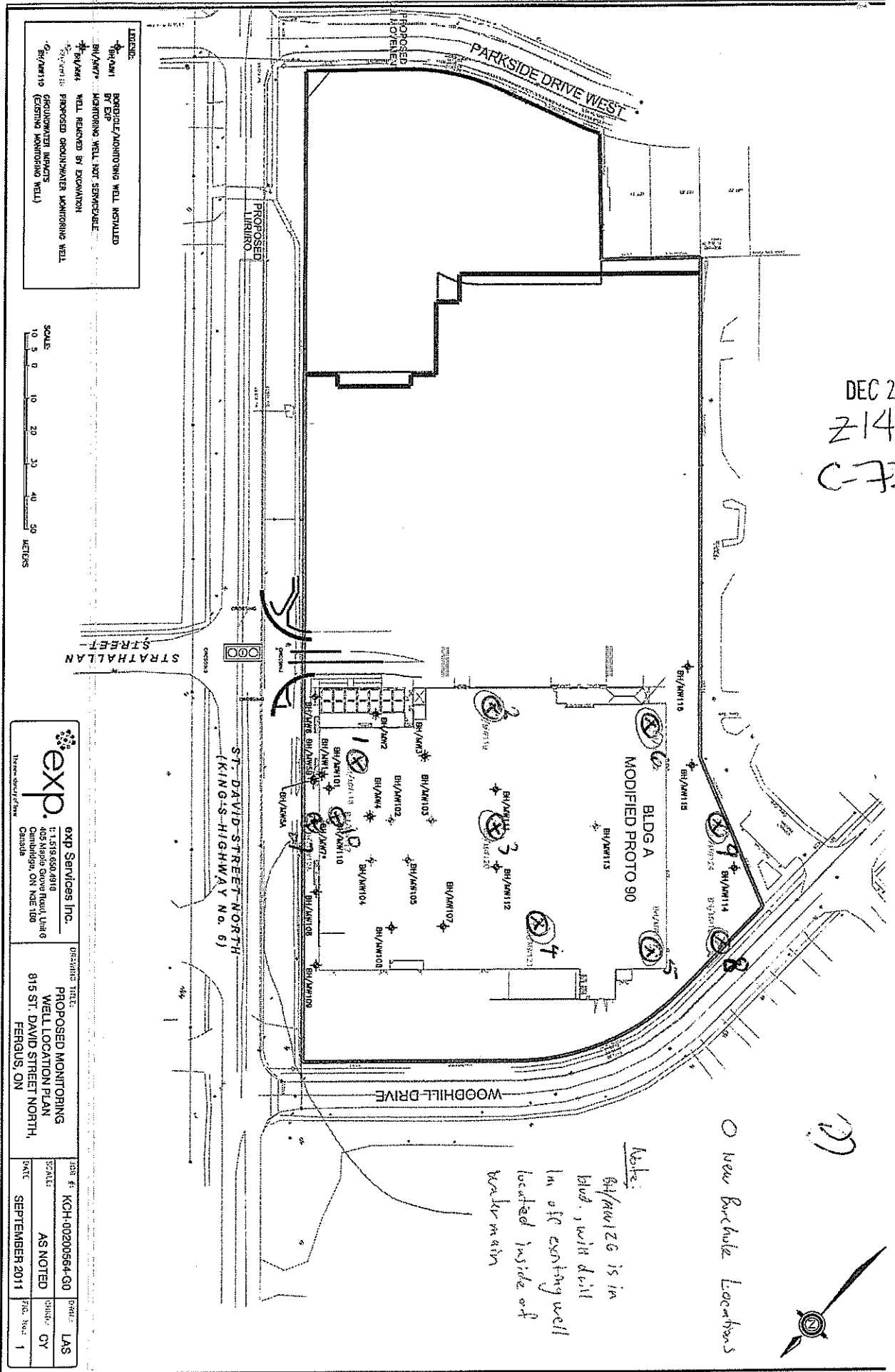
Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft)  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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

Map of Well Location

Please provide a map below following instructions on the back.  
  
**NO. 3 on map**

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>2011/10/04</b>	Date Work Completed <b>2011/10/04</b>	Ministry Use Only Audit No. <b>Z140390</b> Received <b>DEC 28 2011</b>
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DEC 28 2011  
 Z14039C  
 C-7D38



**exp.**  
 exp Services Inc.  
 1-519-650-4816  
 405 Maple Grove Road, Unit 6  
 Cambridge, ON N6E 1B9  
 Canada

**DRAWING TITLE:**  
 PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

DATE	DATE	BY
SEPTEMBER 2011	SEPTEMBER 2011	LAS
SCALE	AS NOTED	CHECKED
		CY
		FOOTING
		1

*Note:*  
 BH/AM126 is in  
 mud, will drill  
 in off existing well  
 located inside of  
 water main

○ New Borehole Locations





Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed (m³/ft³)

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter tables with columns: Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name, Licence No., Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Signature, Date Submitted

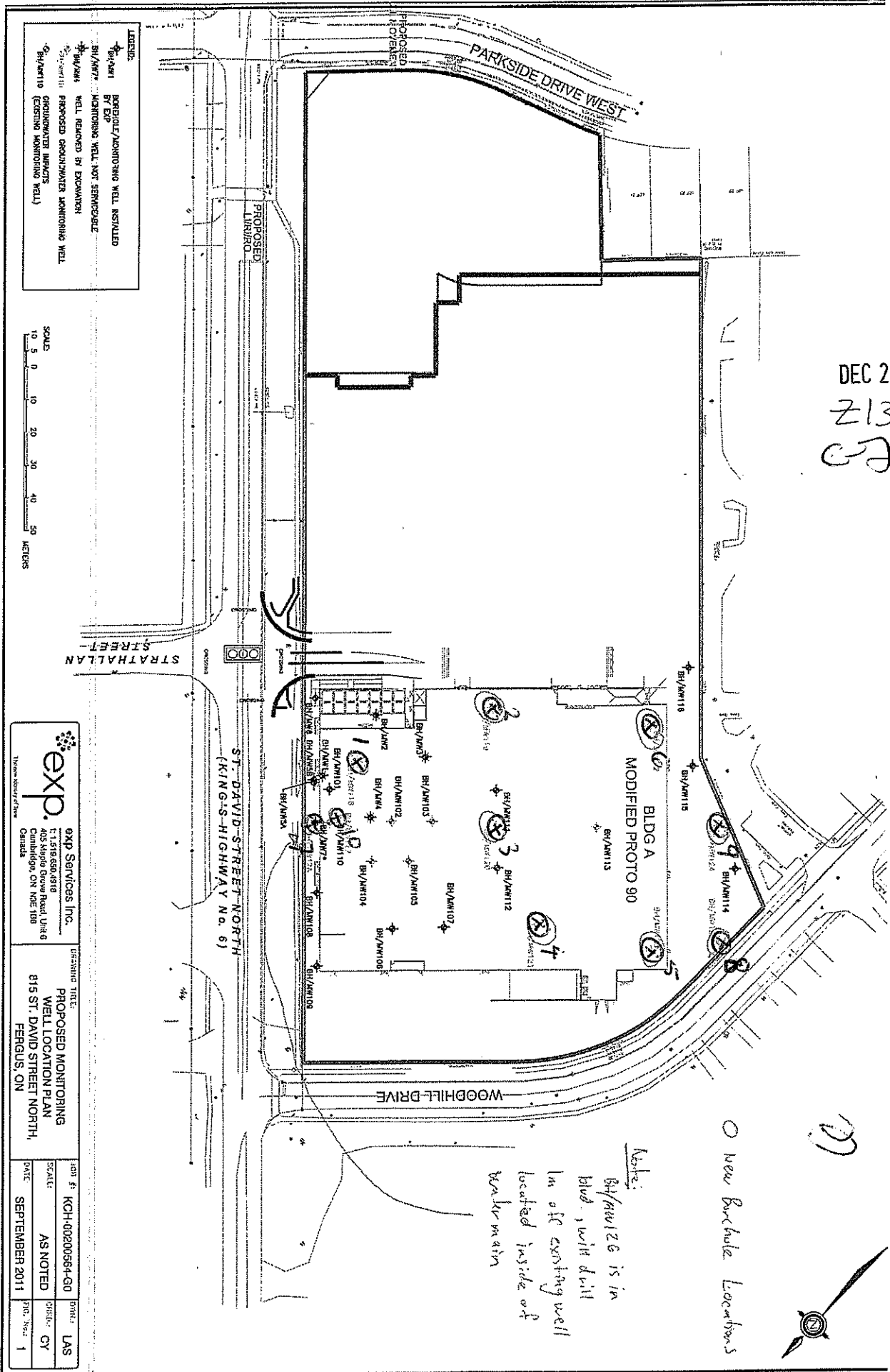
Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down, Recovery, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Map of Well Location

Please provide a map below following instructions on the back. Comments: No. 2 on map

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only: Audit No. 2135904, Received DEC 28 2011

DEC 28 2011  
 Z13590K  
 C-238



**exp.**  
 exp Services Inc.  
 1-1-519-550-4816  
 405 Maple Grove Road Unit 6  
 Cambridge, ON N6E 1S8  
 Canada

**PROPOSED MONITORING WELL LOCATION PLAN**  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

JOB #	KCH-00200564-G0	DATE	SEPTEMBER 2011
SCALE	AS NOTED	DATE	SEPTEMBER 2011
DATE	SEPTEMBER 2011	SCALE	AS NOTED
PROJ. NO.	1	SCALE	AS NOTED
PROJ. NO.	1	SCALE	AS NOTED

*Note:*  
 BH/AM126 is in  
 bldg, will drill  
 in if existing well  
 located inside of  
 water main

*0 New Borehole Locations*



11-2137-026



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space

Table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Method of Construction, Well Use

Construction Record - Casing, Status of Well

Construction Record - Screen

Water Details, Hole Diameter

Well Contractor and Well Technician Information

Results of Well Yield Testing

Table with columns: After test of well yield, water was, Draw Down, Recovery, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

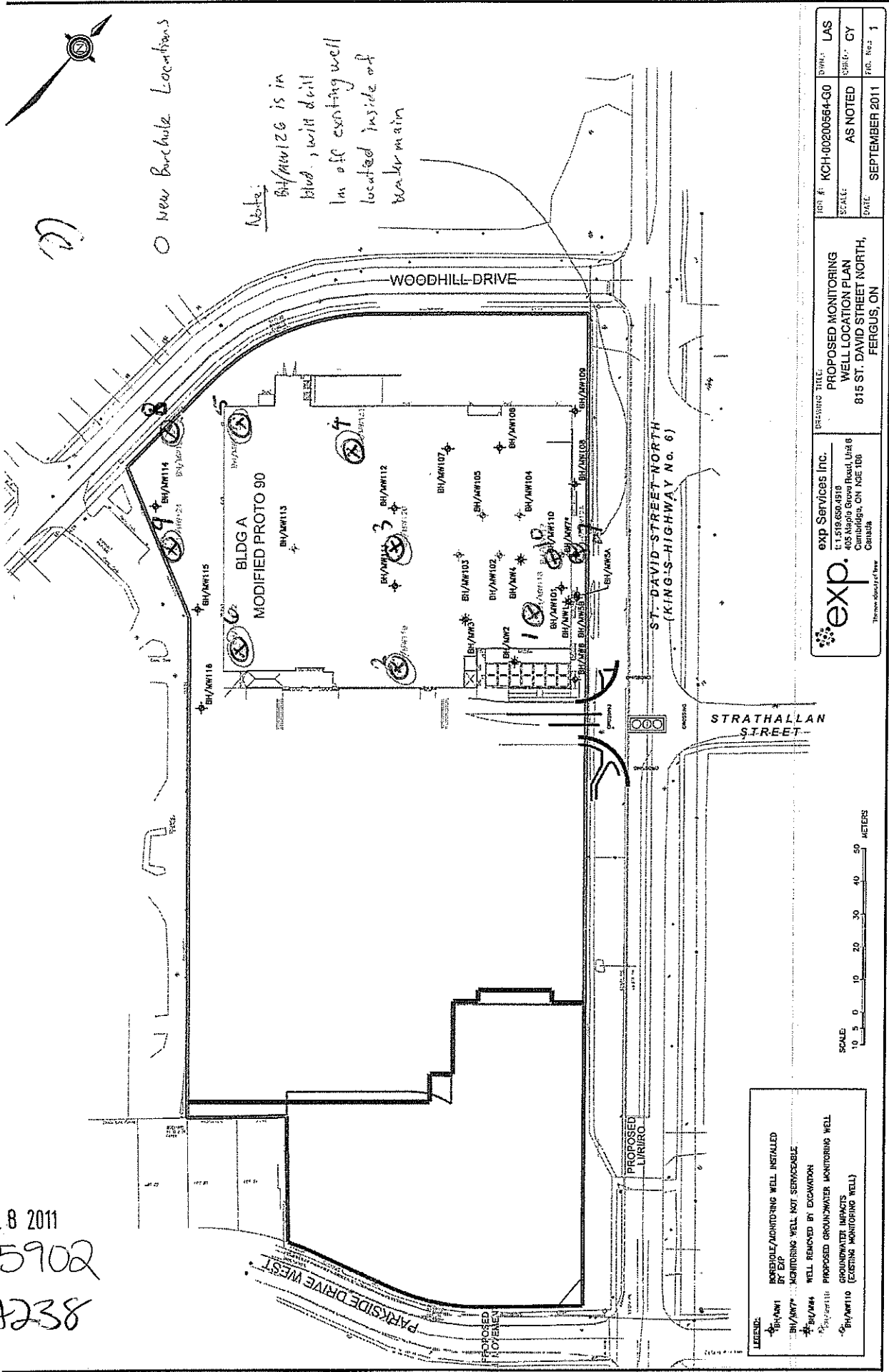
Map of Well Location

Please provide a map below following instructions on the back. Comments: NO. 1 on map

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only, Audit No., Received



DEC 28 2011  
 Z135902  
 C-7238

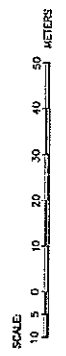


O New Borehole Locations

Note:  
 BH/AM126 is in  
 blud, will drill  
 in off existing well  
 located inside of  
 breaker main

exp Services Inc. 11,518,650,4510 405 Maple Grove Road, Unit 6 Cambridge, ON N3E 1J6 Canada www.exp.ca		DRAWING TITLE: <b>PROPOSED MONITORING          WELL LOCATION PLAN</b> 815 ST. DAVID STREET NORTH, FERGUS, ON	DRAWN: LAS CHECKED: CY FIG. NO.: 1
exp logo		JOB #: KCH-00200564-G0	DATE: SEPTEMBER 2011
SCALE: AS NOTED		SCALE:	

- LEGEND:
- BH/AM1 BOREHOLE/MONITORING WELL INSTALLED BY EXP
  - BH/AM2 MONITORING WELL NOT SERVICEABLE
  - BH/AM4 WELL REMOVED BY EXCAVATION
  - BH/AM113 PROPOSED GROUNDWATER MONITORING WELL
  - BH/AM110 PROPOSED GROUNDWATER MONITORING WELL (EXISTING MONITORING WELL)



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name: Fergus Shopping Centres Ltd.  
 Last Name / Organization: [Redacted]  
 E-mail Address: [Redacted]  
 Mailing Address (Street Number/Name): 100 Applewood Cres, Suite 100  
 Municipality: Vaughan  
 Province: ON  
 Postal Code: L4K 5X3  
 Telephone No. (inc. area code): 416 760 6266

**Well Location**

Address of Well Location (Street Number/Name): St. David St. N. + Woodhill Dr.  
 Township: Nichol  
 Lot: [Redacted]  
 Concession: [Redacted]  
 County/District/Municipality: Wellington  
 City/Town/Village: Fergus  
 Province: Ontario  
 Postal Code: [Redacted]  
 UTM Coordinates: Zone Easting Northing  
 NAD 83 17 549153 48 40062  
 Municipal Plan and Sublot Number: [Redacted]  
 Other: [Redacted]

**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	sand	stones		0	3.8
brown	silt	stones		3.8	6.1

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.3 concrete	
0.3	2.7 bentonite chips	
2.7	6.1 sand	

**Results of Well Yield Testing**

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

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?  Yes  No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level				
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  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 auger

**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	
5.1	plastic	0.65	0	3.1	<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 checked="" 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)	
			From	To
6.4	plastic	10	3.1	6.1

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From	To
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	6.1
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		21

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Ardmark Drilling Inc.  
 Business Address (Street Number/Name): 25 Lewis Road - Unit C  
 Province: ON Postal Code: N1H 1E9  
 Business E-mail Address: [Redacted]  
 Well Contractor's Licence No.: 7121318  
 Municipality: Guelph  
 Bus. Telephone No. (inc. area code): 519 882 6934  
 Name of Well Technician (Last Name, First Name): Gordon, Mich  
 Well Technician's Licence No.: 31590  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2011/10/14

**Map of Well Location**

Please provide a map below following instructions on the back.

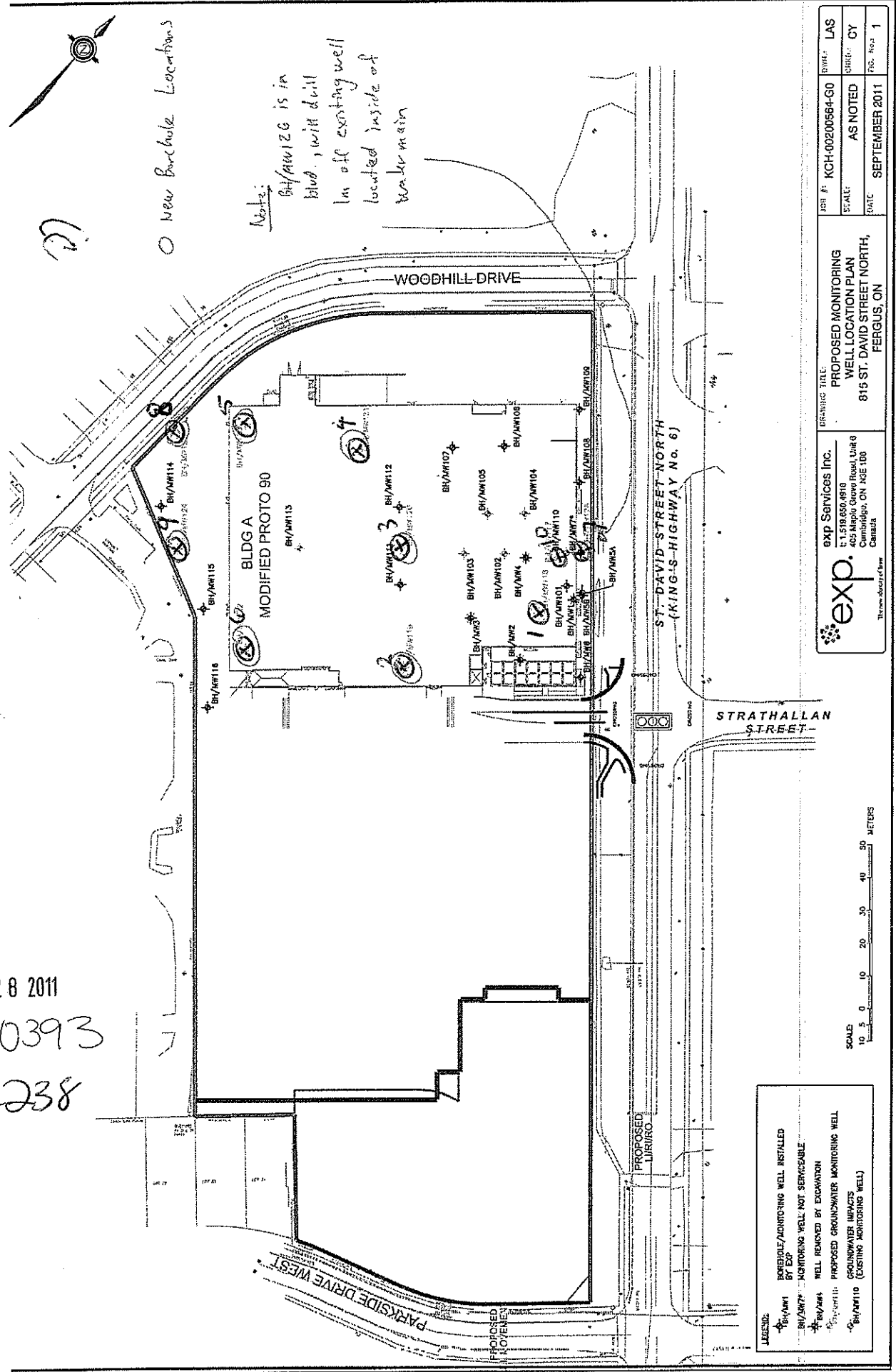
Comments: No. 6 on map

Well owner's information package delivered:  Yes  No

Date Package Delivered: Y|Y|Y|Y|M|M|D|D  
 Date Work Completed: 2011/10/05

**Ministry Use Only**  
 Audit No.: Z140393  
 Received: DEC 28 2011

DEC 28 2011  
 Z140393  
 C-7238



○ New Borehole Locations

Note:  
 BH/AM126 is in  
 blud, will drill  
 in of existing well  
 located inside of  
 water main

- LEGEND:
- ⊕ BH/AM1: PROPOSED/MONITORING WELL INSTALLED BY EXP.
  - ⊕ BH/AM7: MONITORING WELL NOT SERVICEABLE
  - ⊕ BH/AM4: WELL REMOVED BY EXCAVATION
  - ⊕ BH/AM11: PROPOSED GROUNDWATER MONITORING WELL
  - ⊕ BH/AM10: GROUNDWATER IMPACTS MONITORING WELL (EXISTING MONITORING WELL)

 exp Services Inc. 1,1519,650,4810 405 Maple Grove Road, Unit 8 Cambridge, ON N5E 1G8 Canada <small>The new Standard of Care</small>		DRAWING TITLE: <b>PROPOSED MONITORING WELL LOCATION PLAN</b> 815 ST. DAVID STREET NORTH, FERGUS, ON	PROJ #: KCH-00200564-G0	BWH #: LAS
SCALE: AS NOTED		DATE: SEPTEMBER 2011	ORIG. BY: CY	REV. NO. 1

11-01-01-01



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A115501

11-0159-00

Well Record

Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use checkboxes and options

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information

Map of Well Location

Comments section

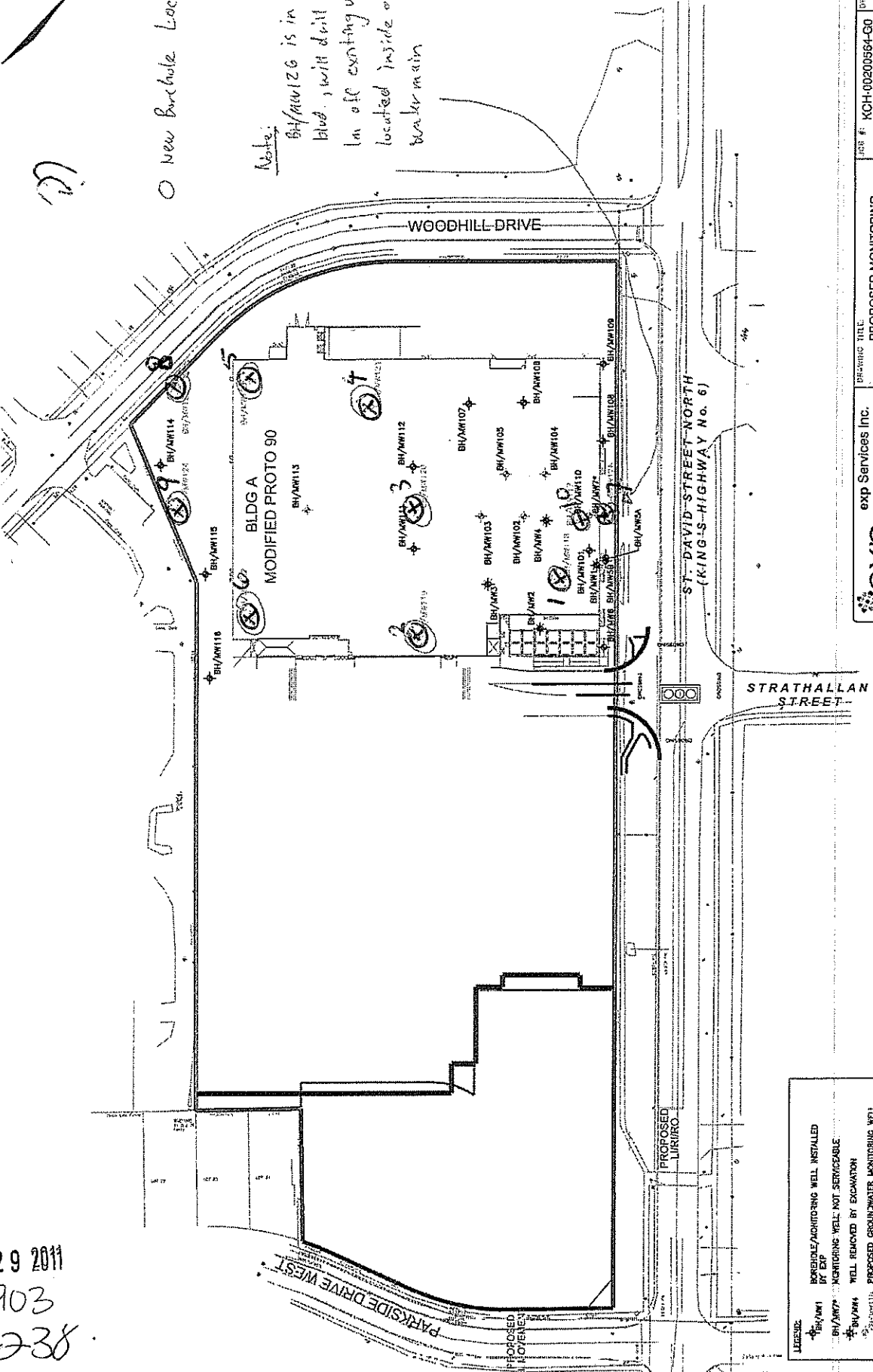
Well owner's information package delivered, Date Package Delivered, Date Work Completed

Ministry Use Only: Audit No., Received



○ New Borehole Locations

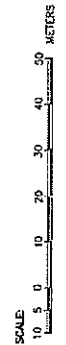
Note:  
BH/AM126 is in  
Hud., will drill  
in oil existing well  
located inside of  
braker main



JOB #:	KCH-00200564-C0	DRAWN:	LAS
SCALE:	AS NOTED	CHECKED:	CY
DATE:	SEPTEMBER 2011	DATE:	SEPTEMBER 2011

PROPOSED MONITORING WELL LOCATION PLAN  
815 ST. DAVID STREET NORTH,  
FERGUS, ON

**exp.**  
 exp Services Inc.  
 405 Kings Bridge Road, Unit 8  
 Cambridge, ON N3E 1B8  
 Canada  
 The Power Quality of Water



- LEGEND:
- ⊕ BOREHOLE/MONITORING WELL INSTALLED BY EXP
  - ⊕ BH/AM116 MONITORING WELL NOT SERVICABLE
  - ⊕ BH/AM111 WELL REMOVED BY EXCAVATION
  - ⊕ BH/AM110 PROPOSED GROUNDWATER MONITORING WELL
  - ⊕ BH/AM115 PROPOSED GROUNDWATER MONITORING WELL
  - ⊕ BH/AM110 GROUNDWATER IMPACTS (EXISTING MONITORING WELL)

DEC 29 2011  
 Z135903  
 C-7238



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

**A115503**

11-0159-00

**Well Record**

Regulation 903 Ontario Water Resources Act

Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name: Fergus Shopping Centres Ltd. Last Name / Organization: [Redacted] E-mail Address: [Redacted]  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 100 Applewood Cres., Suite 100 Municipality: Vaughan Province: ON Postal Code: L4H1K5 Telephone No. (inc. area code): [Redacted]

**Well Location**

Address of Well Location (Street Number/Name): St. David Street N. + Woodhill Dr. Township: Nichol Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_

UTM Coordinates Zone: 18 Easting: 7547212 Northing: 4840118 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
<u>brown</u>	<u>sand</u>	<u>stones</u>		<u>0</u>	<u>4.5</u>
<u>brown</u>	<u>silt</u>	<u>stones</u>		<u>4.5</u>	<u>5.3</u>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<u>0</u>	<u>concrete</u>	
<u>0.3</u>	<u>bentonite chips</u>	
<u>1.8</u>	<u>seal.</u>	

**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 type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Static Level			
	<u>1</u>		<u>1</u>	
Pump intake set at (m/ft)	<u>2</u>		<u>2</u>	
Pumping rate (l/min / GPM)	<u>3</u>		<u>3</u>	
Duration of pumping _____ hrs + _____ min	<u>4</u>		<u>4</u>	
Final water level end of pumping (m/ft)	<u>5</u>		<u>5</u>	
	<u>10</u>		<u>10</u>	
If flowing give rate (l/min / GPM)	<u>15</u>		<u>15</u>	
	<u>20</u>		<u>20</u>	
Recommended pump depth (m/ft)	<u>25</u>		<u>25</u>	
	<u>30</u>		<u>30</u>	
Recommended pump rate (l/min / GPM)	<u>40</u>		<u>40</u>	
	<u>50</u>		<u>50</u>	
Well production (l/min / GPM)	<u>60</u>		<u>60</u>	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> 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 auger  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	
<u>5.1</u>	<u>plastic</u>	<u>0.65</u>	<u>0</u>	<u>2.3</u>	<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 checked="" 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)	
			From	To
<u>6.4</u>	<u>plastic</u>	<u>10</u>	<u>2.3</u>	<u>5.3</u>

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
<u>[Blank]</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>0</u>	<u>21</u>
<u>[Blank]</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>5.3</u>	<u>[Blank]</u>
<u>[Blank]</u>	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>[Blank]</u>	<u>[Blank]</u>

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Hardware Drilling Inc. Well Contractor's Licence No.: 7121318

Business Address (Street Number/Name): 25 Lewis Road - Unit C Municipality: Guelph

Province: ON Postal Code: N1H1A9 Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): 5198269340 Name of Well Technician (Last Name, First Name): Gordon, Mitch

Well Technician's Licence No.: 3590 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011/10/14

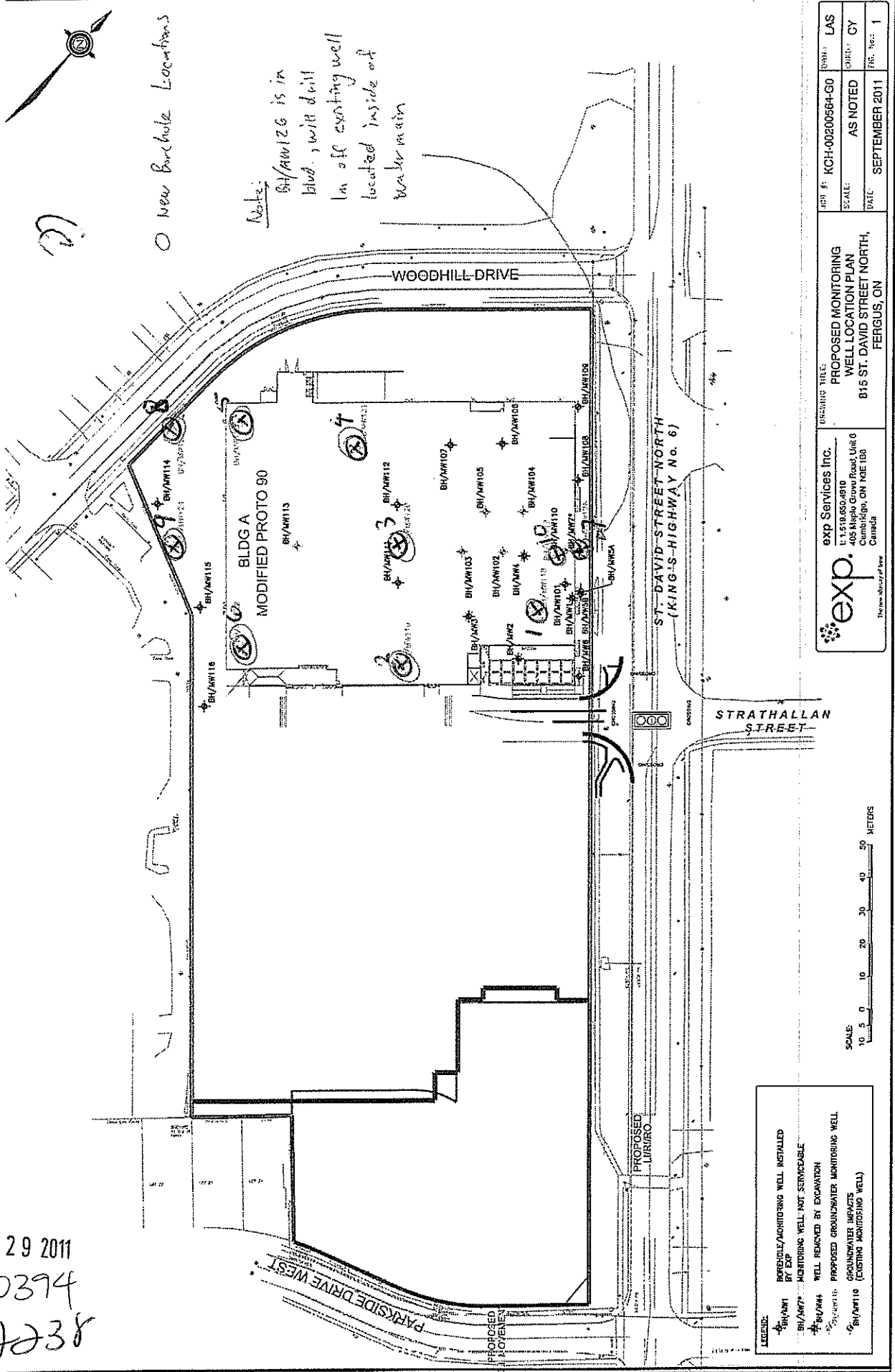
**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: No. 7 on map

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered	Ministry Use Only	
	Date Work Completed	Audit No.	Received
	<u>2011/10/05</u>	<u>Z140394</u>	<u>DEC 29 2011</u>

DEC 29 2011  
 2140394  
 JCF



○ New Borehole Locations

Note:  
 BH/AM126 is in  
 blind, with drill  
 in off existing well  
 located inside of  
 water main

**exp.**  
 The new standard of care

exp Services Inc.  
 U: 1.518.850.4910  
 405 Allego Grove Road, Unit 6  
 Cambridge, ON N3E 1B9  
 Canada

PROJECT TITLE:  
 PROPOSED MONITORING  
 WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

APP #:  
 KCH-00200564-G0

SCALE:  
 AS NOTED

DATE:  
 SEPTEMBER 2011

DATE:  
 LAS

DATE:  
 CY

FIG. No.:  
 1

- LEGEND:
- ▲ BH/AM1 PROPOSED/MONITORING WELL INSTALLED BY EXP
  - ★ BH/AM2 MONITORING WELL NOT SERVICEABLE
  - ✦ BH/AM4 WELL REMOVED BY EXCAVATION
  - ⊕ BH/AM11 PROPOSED GROUNDWATER MONITORING WELL
  - ⊖ BH/AM110 GROUNDWATER IMPACTS (EXISTING MONITORING WELL)



Measurements recorded in:  Metric  Imperial

Page of

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Not used, Domestic, Municipal, Dewatering, Livestock, Test Hole, Monitoring, Irrigation, Cooling & Air Conditioning, Industrial, Other

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter tables with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

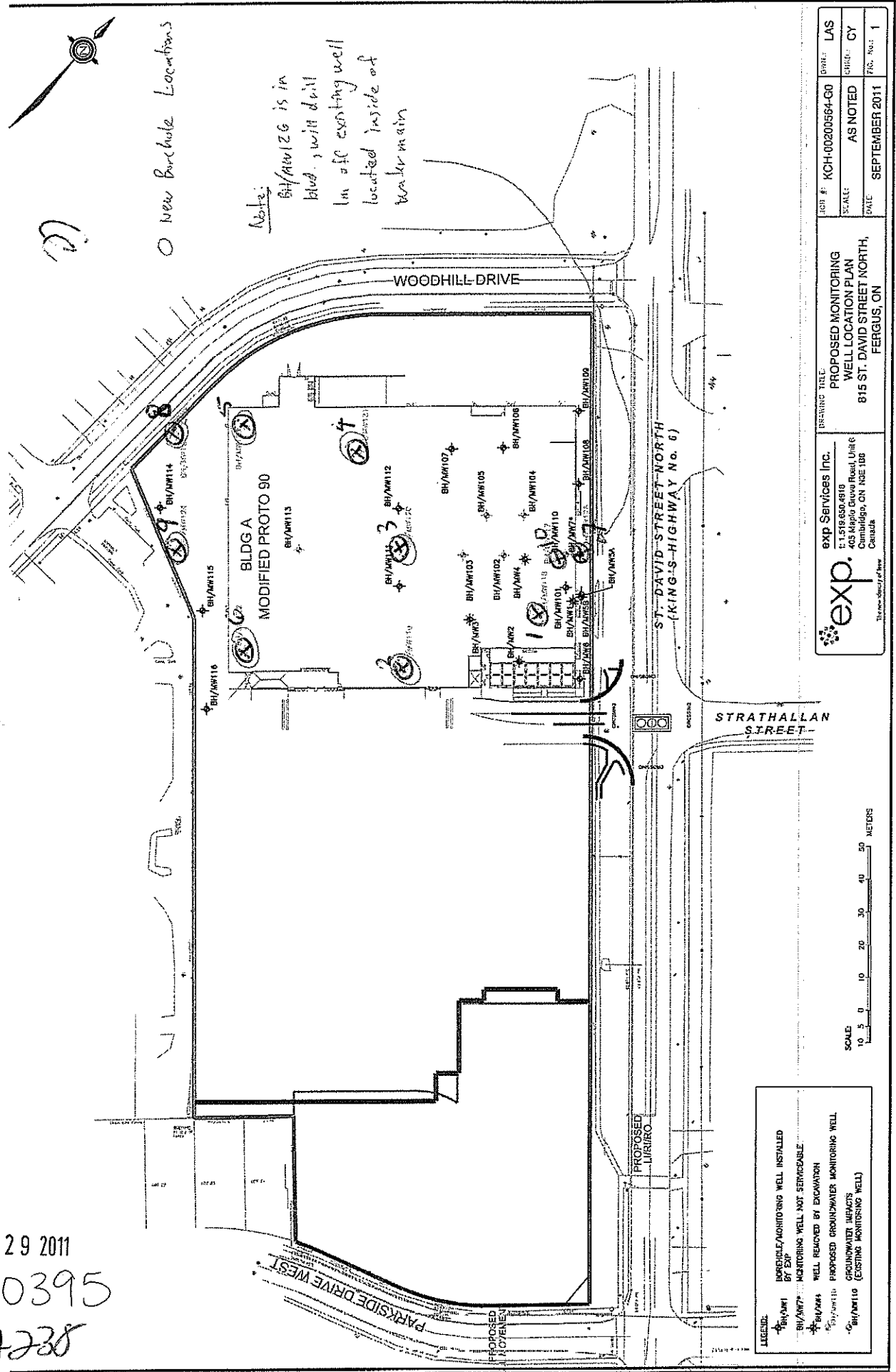
Well Contractor and Well Technician Information: Business Name, License No., Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's License No., Signature, Date Submitted

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at (m/ft), Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Map of Well Location: Please provide a map below following instructions on the back. Comments: No. 8 on map. Ministry Use Only: Audit No. 2140395, DEC 29 2011, Received



DEC 29 2011  
 Z140395  
 C7238



○ New Borehole Locations

Note:  
 BH/AMT106 is in  
 blvd., with drill  
 in old existing well  
 located inside of  
 water main

**exp.**  
 The new standard of care

exp. Services Inc.  
 T: 1.519.650.4816  
 405 Maple Grove Road, Unit 6  
 Cambridge, ON N9E 1B6  
 Canada

DRAWING TITLE:  
 PROPOSED MONITORING  
 WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

JOB # KCH-00200564-G0  
 SCALE: AS NOTED  
 DATE: SEPTEMBER 2011

DRAWN: LAS  
 CHECKED: CY  
 PLOT NO: 1

- LEGEND:
- ⊗ BH/AMT101 BOREHOLE/MONITORING WELL INSTALLED BY EXP.
  - ⊗ BH/AMT102 MONITORING WELL NOT SERVICEABLE
  - ⊗ BH/AMT103 WELL REMOVED BY EXCAVATION
  - ⊗ BH/AMT104 PROPOSED GROUNDWATER MONITORING WELL
  - ⊗ BH/AMT105 GROUNDWATER IMPACTS (EXISTING MONITORING WELL)
  - ⊗ BH/AMT106



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, City/Town/Village, Province, Postal Code, UTM Coordinates, Municipal Plan and Sublot Number

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time, Water Level

Method of Construction and Well Use checkboxes

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

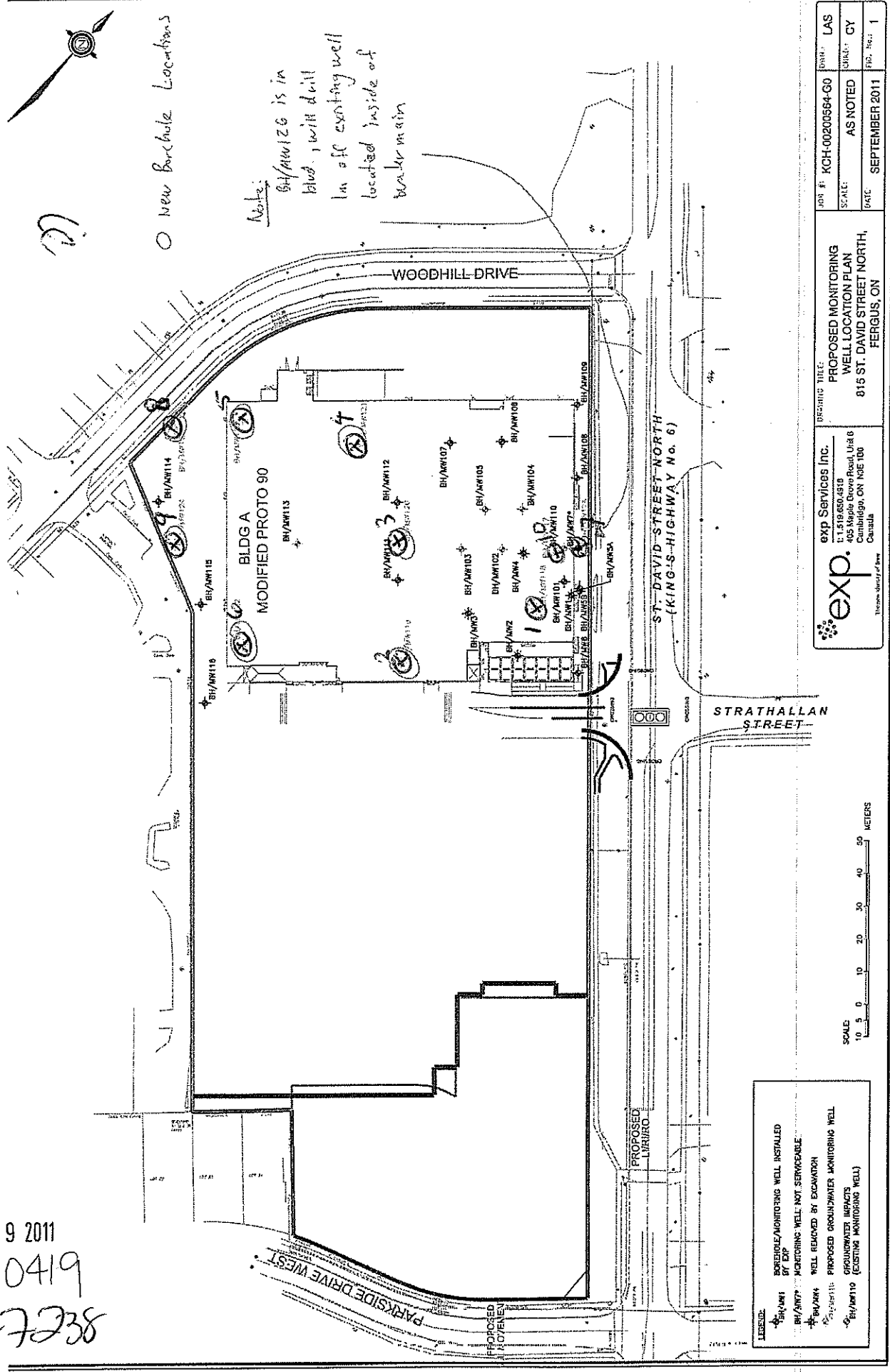
Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information form

Map of Well Location and Comments section

DEC 29 2011  
 Z140419  
 C-7238



*0 New Borehole Locations*

Note:  
 BH/AM126 is in  
 block, will drill  
 in off existing well  
 located inside of  
 brick main

**exp.**  
 exp Services Inc.  
 1-1-1519-650-4510  
 405 Nardo Grove Road, Unit 6  
 Cambridge, ON N0E 1G0  
 Canada

**PROPOSED MONITORING WELL LOCATION PLAN**  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

JOB #: KCH-00200564-G0  
 SCALE: AS NOTED  
 DATE: SEPTEMBER 2011

DRAWN BY: LAS  
 CHECKED BY: GY  
 FILE NO.: 1

- LEGEND:
- ● BOREROLE/MONITORING WELL INSTALLED BY EXP
  - ✕ BOREROLE/MONITORING WELL NOT SERVICEABLE
  - ☆ WELL REMOVED BY EXCAVATION
  - ▲ PROPOSED GROUNDWATER MONITORING WELL
  - □ PROPOSED GROUNDWATER IMPACTS (EXISTING MONITORING WELL)



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space

Table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing

Table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction

Well Use

Method of Construction: Cable Tool, Rotary (Conventional/Reverse), Boring, Air percussion, Other. Well Use: Public, Commercial, Domestic, Municipal, Test Hole, Cooling & Air Conditioning, Livestock, Irrigation, Industrial, Other.

Construction Record - Casing

Status of Well

Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well options

Construction Record - Screen

Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well options

Water Details

Hole Diameter

Table with columns: Water found at Depth (m/ft), Kind of Water, Hole Diameter (Depth, Diameter)

Well Contractor and Well Technician Information

Business Name of Well Contractor, Well Contractor's Licence No., Business Address (Street Number/Name), Municipality, Province, Postal Code, Business E-mail Address

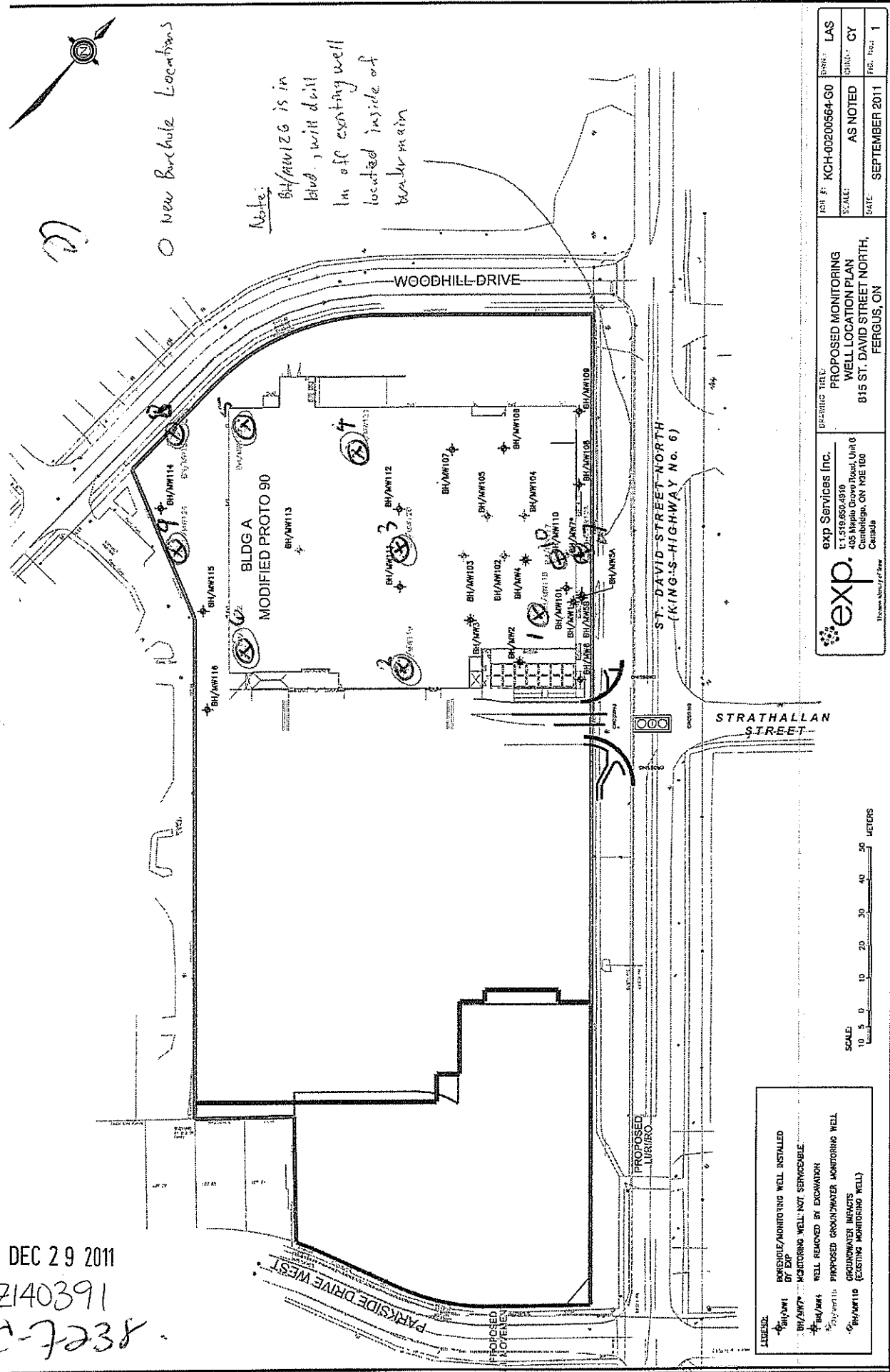
Bus. Telephone No. (inc. area code), Name of Well Technician (Last Name, First Name), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Comments:

No. 4 on map

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only (Audit No., Received)

Sheet-C  
 16301Z  
 DEC 29 2011



○ New Borehole Locations

Note:  
 BH/AM126 is in  
 1st fl., will drill  
 in off existing well  
 located inside of  
 back main

- LEGEND:
- ⊕ BH/AM1 PROPOSED/EXISTING WELL INSTALLED BY EXP.
  - ⊖ BH/AM7 MONITORING WELL NOT SERVICEABLE.
  - ⊗ BH/AM4 WELL RECOVERED BY EXCAVATION
  - ⊙ BH/AM11 PROPOSED GROUNDWATER MONITORING WELL
  - ⊘ BH/AM10 GROUNDWATER MONITORING (EXISTING MONITORING WELL)

SCALE 1:5000  
 0 5 10 20 30 40 50 METERS

exp. Environmental Protection

exp. Services Inc.  
 U: 1.519.859.4810  
 405 Maple Grove Road, Unit 8  
 Cambridge, ON N4E 1G6  
 Canada  
 Tel: 519-859-7244

SEARCHING TITLE:  
 PROPOSED MONITORING  
 WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

JOB #: KCH-00200584-G0  
 SCALE: AS NOTED  
 DATE: SEPTEMBER 2011

DRAWN: LAS  
 CHECKED: CY  
 FILE: REG 1



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details, Hole Diameter

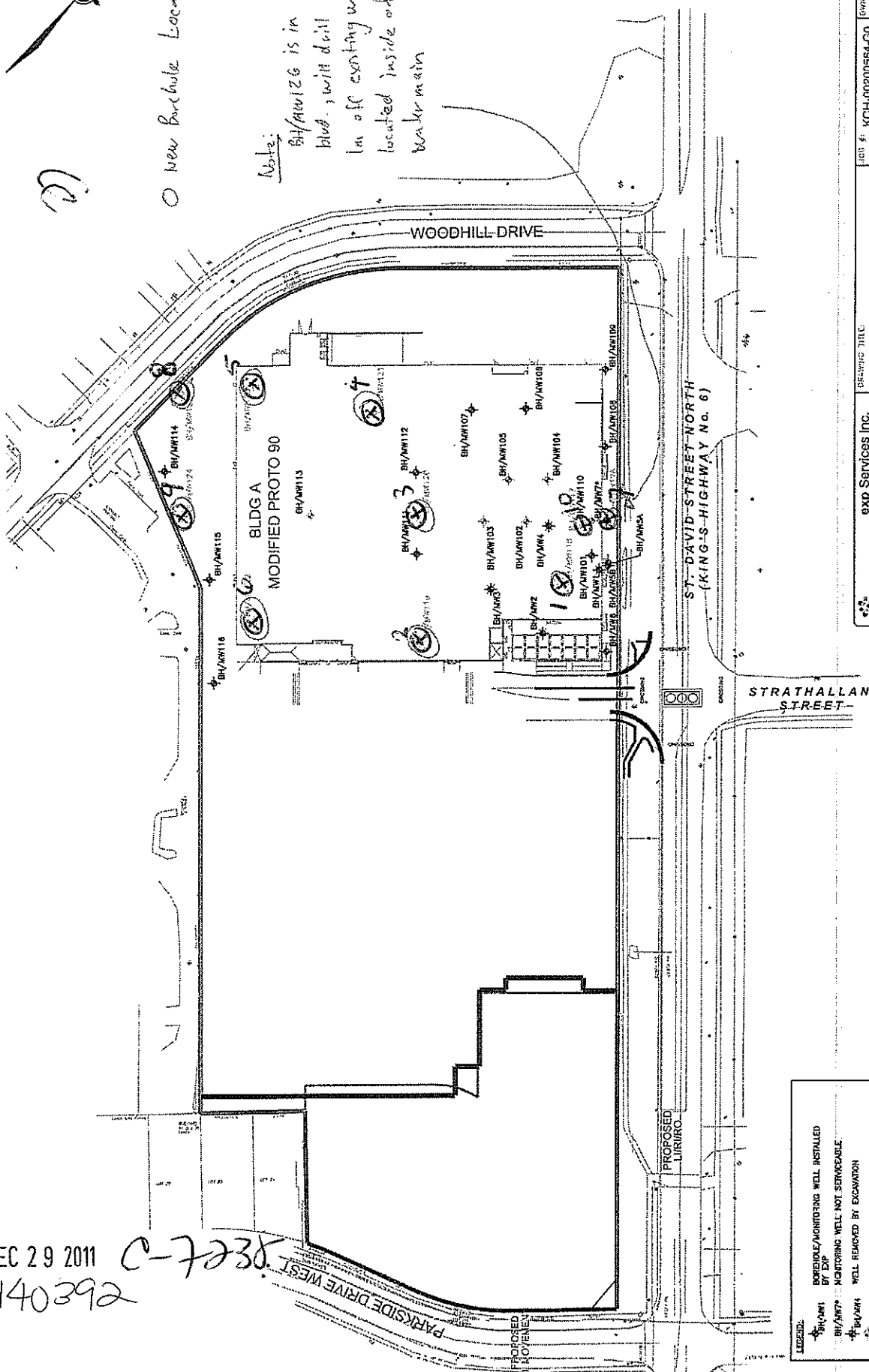
Well Contractor and Well Technician Information

Map of Well Location, Comments, Ministry Use Only



○ New Borehole Locations

Note:  
BH/AW126 is in  
blvd. with drill  
in old existing well  
located inside of  
water main



 exp. Services Inc. 1-1518-650-4819 405 Kingsley Grove Road, Unit 8 Cambridge, ON N3E 1D8 Canada <small>TRUSTED CONSULTANTS</small>	DRAWING TITLE <b>PROPOSED MONITORING WELL LOCATION PLAN</b> 815 ST. DAVID STREET NORTH, FERGUS, ON	JOB #: KCH-00200584-C0	DWG. #: LAS
	SCALE: AS NOTED	DATE: SEPTEMBER 2011	SHEET: CY
	PROJECT: 815 ST. DAVID STREET NORTH, FERGUS, ON		

DEC 29 2011  
 2140392  
 C-7238

LEGEND:

- BH/AW1 PROPOSED MONITORING WELL INSTALLED BY EXP
- BH/AW2 MONITORING WELL NOT RECOVERABLE
- BH/AW4 WELL REMOVED BY EXCAVATION
- BH/AW11 PROPOSED GROUNDWATER MONITORING WELL
- BH/AW19 GROUNDWATER IMPACTS (EXISTING MONITORING WELL)



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120121

Regulation 903 Ontario Water Resources Act

11-0159-06

Well Record

Page of

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Northing, Municipal Plan and Sublot Number

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time, Water Level

Method of Construction and Well Use checkboxes

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth

Map of Well Location section with instructions and a large handwritten note: 'Please see attached map.'

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information section

Well owner's information package delivered and Date Work Completed

Ministry Use Only section with Audit No. and Date



**LEGEND**

- BH/MW1 PROPOSED/MONITORING WELL INSTALLED BY EXP
- BH/MW2 MONITORING WELL NOT SERVICABLE
- BH/MW4 WELL REMOVED BY EXCAVATION
- BH/MW12 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SAMPLED BY EXP

**SCALE**

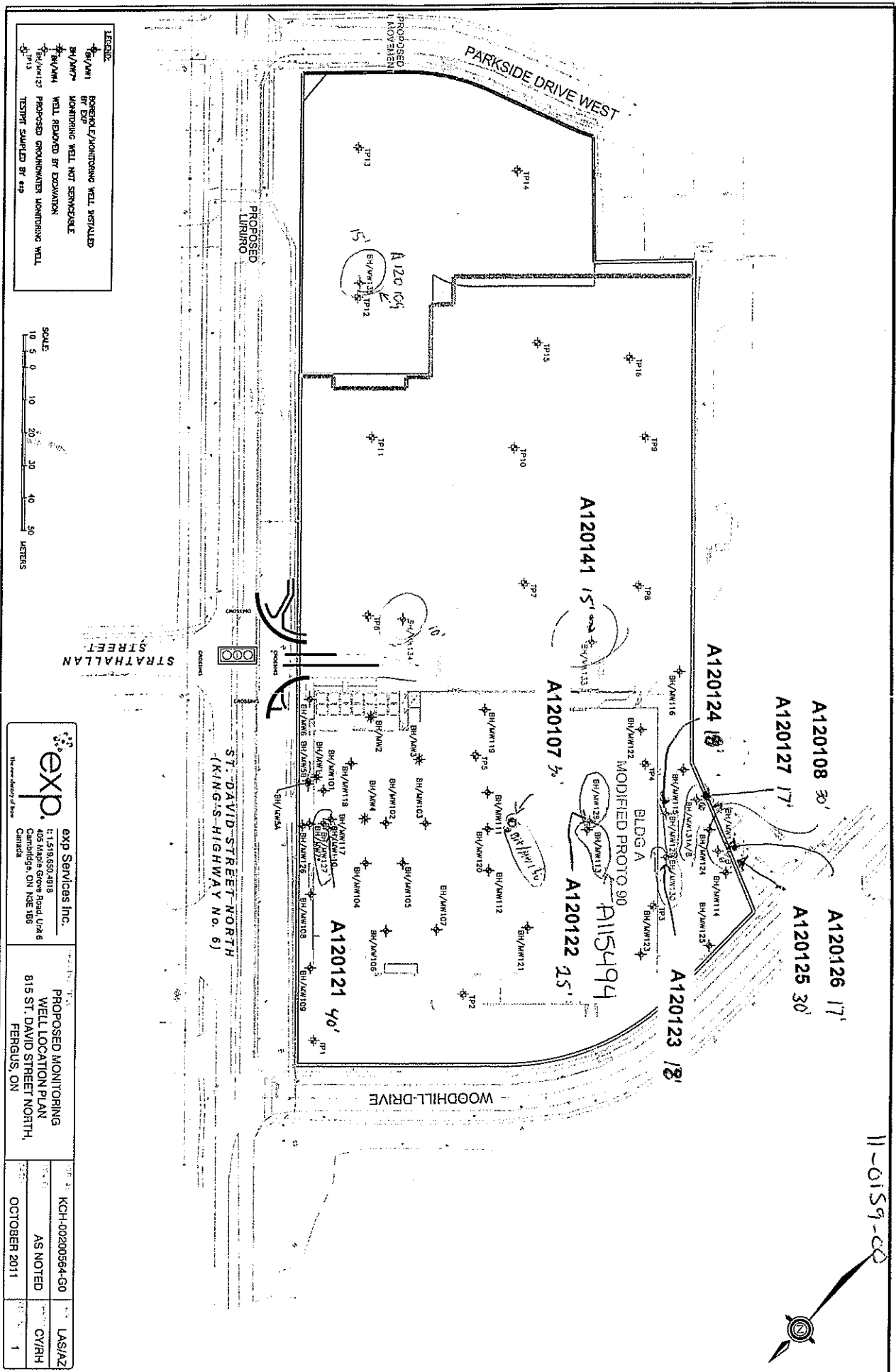
10 5 0 10 20 30 40 50 METERS

**exp** Services Inc.  
 T: 1.519.650.4918  
 405 Maple Grove Road, Unit 6  
 Cambridge, ON N6E 1B6  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERRIS, ON

KCH-00200564-G0  
 AS NOTED  
 OCTOBER 2011  
 LAS/AZ  
 CY/RH  
 1

C-7238  
 240439



JAN 19 2012

11-0159-00



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120122

11-0159-00

Well Record

Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction and Well Use checkboxes: Cable Tool, Rotary (Conventional/Reverse), Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Not used, Domestic, Municipal, Dewatering, Livestock, Test Hole, Monitoring, Irrigation, Cooling & Air Conditioning, Industrial, Other, specify

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

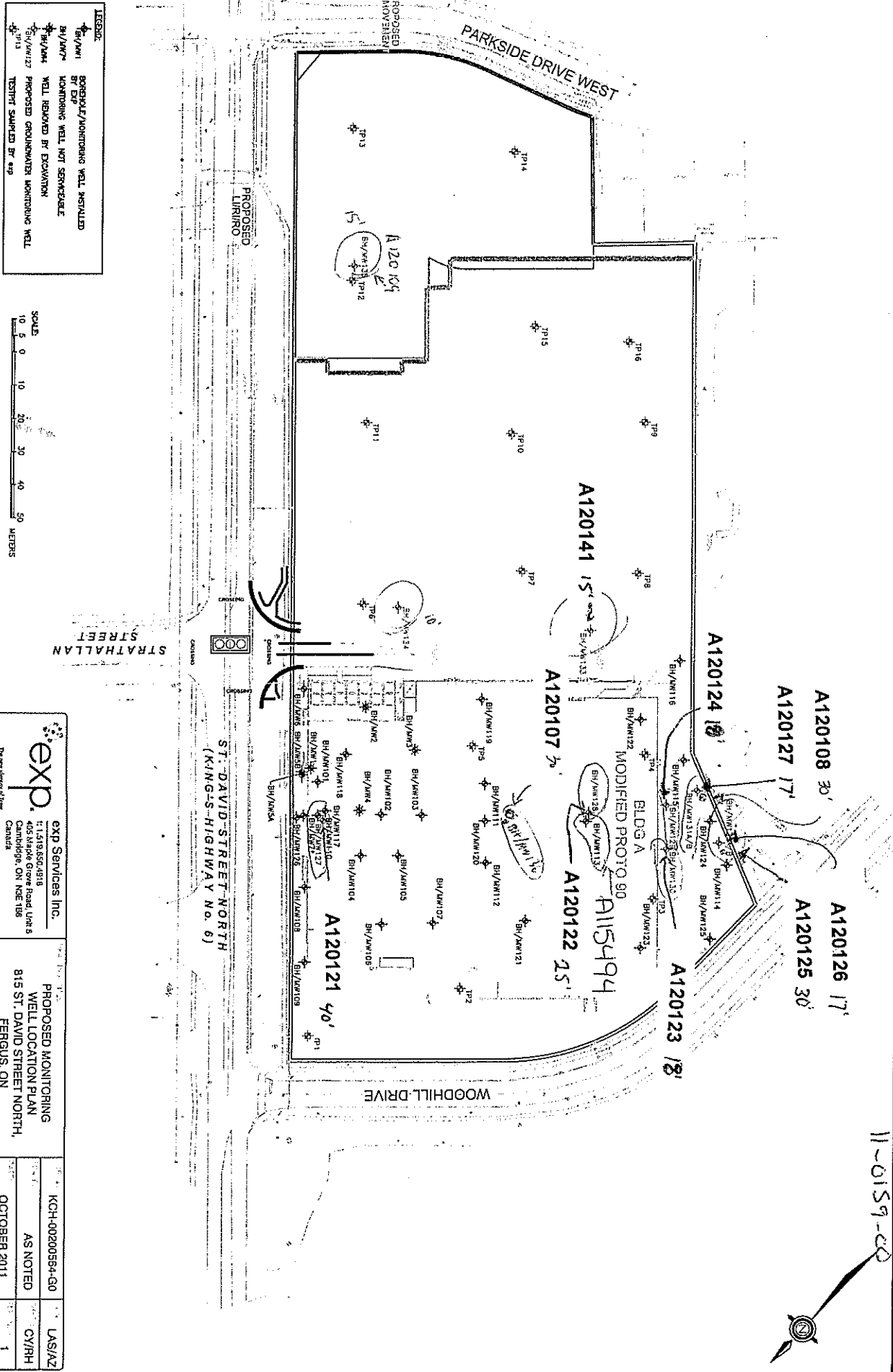
Water Details and Hole Diameter tables with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address

Well Contractor and Well Technician Information: Bus. Telephone No. (inc. area code), Name of Well Technician (Last Name, First Name), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Map of Well Location: Please provide a map below following instructions on the back. Comments: Please see attached map.

Ministry Use Only: Well owner's information package delivered, Date Package Delivered, Date Work Completed, Audit No., JAN 19 2012



**LEGEND**

- ☉ BOREHOLE/MONITORING WELL INSTALLED BY/AM/1
- ☉ MONITORING WELL NOT TO BE INSTALLED BY/AM/1
- ☉ WELL TO BE REMOVED BY EXCAVATION BY/AM/1
- ☉ PROPOSED GROUNDWATER MONITORING WELL BY/AM/1
- ☉ TESTING SAMPLED BY/AM/1

**SCALE**  
 0 10 20 30 40 50 METERS

**exp** Services Inc.  
 1: 519.656.4818  
 405 Maple Grove Road, Unit 8  
 Cambridge, ON N6E 1R6  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

KCH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1

C-7238  
 2140410

11-0159-00



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120123

11-0159-00 Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in:  Metric  Imperial

Page of

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use

Construction Record - Casing, Construction Record - Screen, Status of Well

Water Details, Hole Diameter

Well Contractor and Well Technician Information

Map of Well Location, Comments

Well owner's information package delivered, Date Package Delivered, Date Work Completed

Ministry Use Only, Audit No., Date Submitted

**LEGEND**

- BR/AM1 PROPOSED/MONITORING WELL INSTALLED BY EXP
- BR/AM2 MONITORING WELL NOT SERVICED BY EXP
- BR/AM4 WELL REMOVED BY EXCAVATION
- BR/AM12 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SAMPLED BY EXP

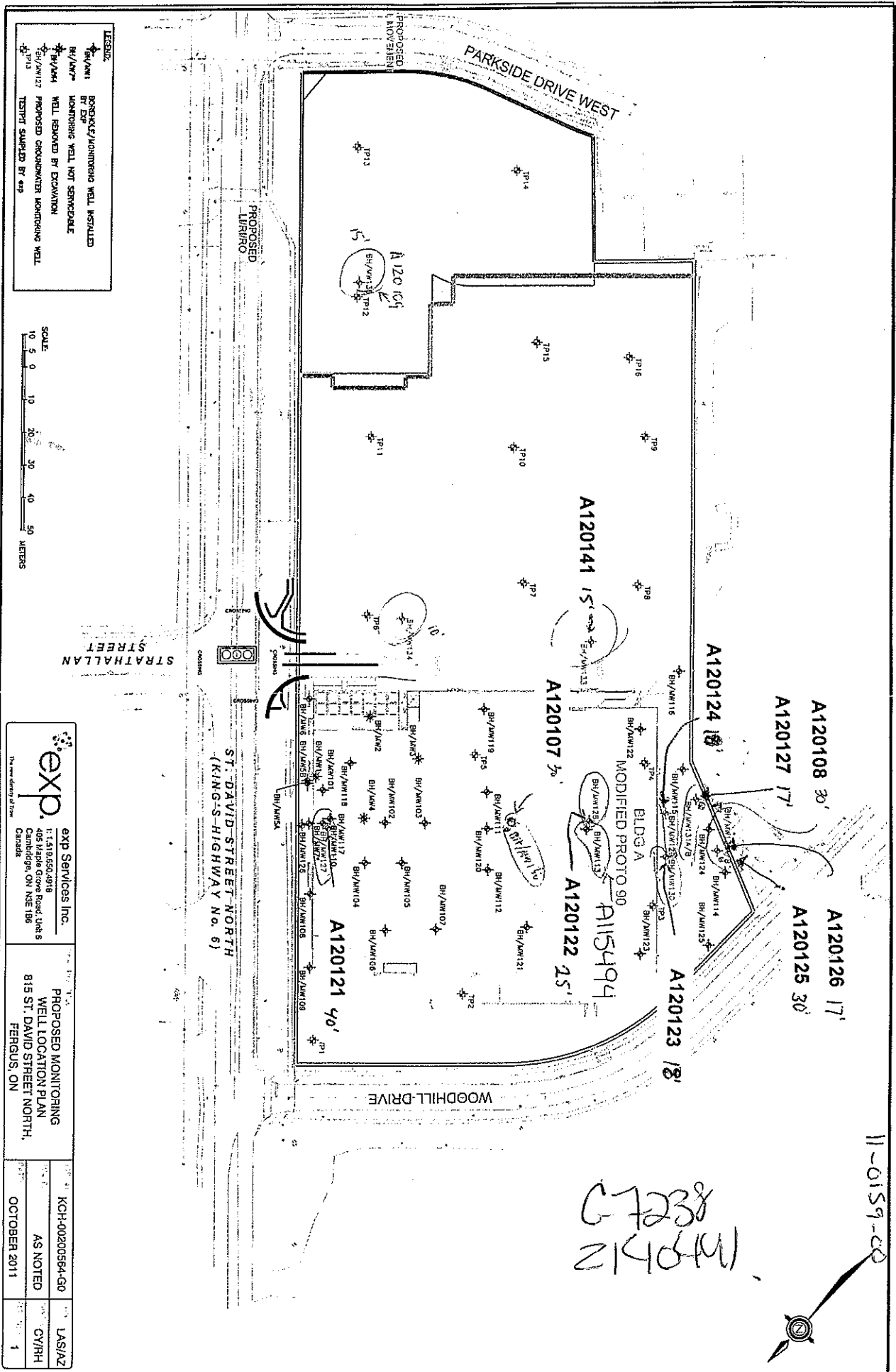
**SCALE**

10 5 0 10 20 30 40 50 METERS

**exp** Services Inc.  
 1-813-950-4918  
 405 Maple Grove Road, Unit 8  
 Cambridge, ON N6E 1B6  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

KOH-00200564-G0  
 AS NOTED  
 OCTOBER 2011  
 LAG/AG  
 CY/RH  
 1



JAN 19 2012



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120124

11-0159-00

Well Record

Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, etc.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name, Address, Licence No., Municipality, E-mail Address, Name of Well Technician

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

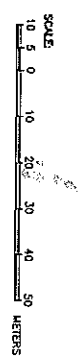
Map of Well Location: Please provide a map below following instructions on the back.

Comments section for additional notes

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only: Audit No., JAN 19 2012

**LEGEND**

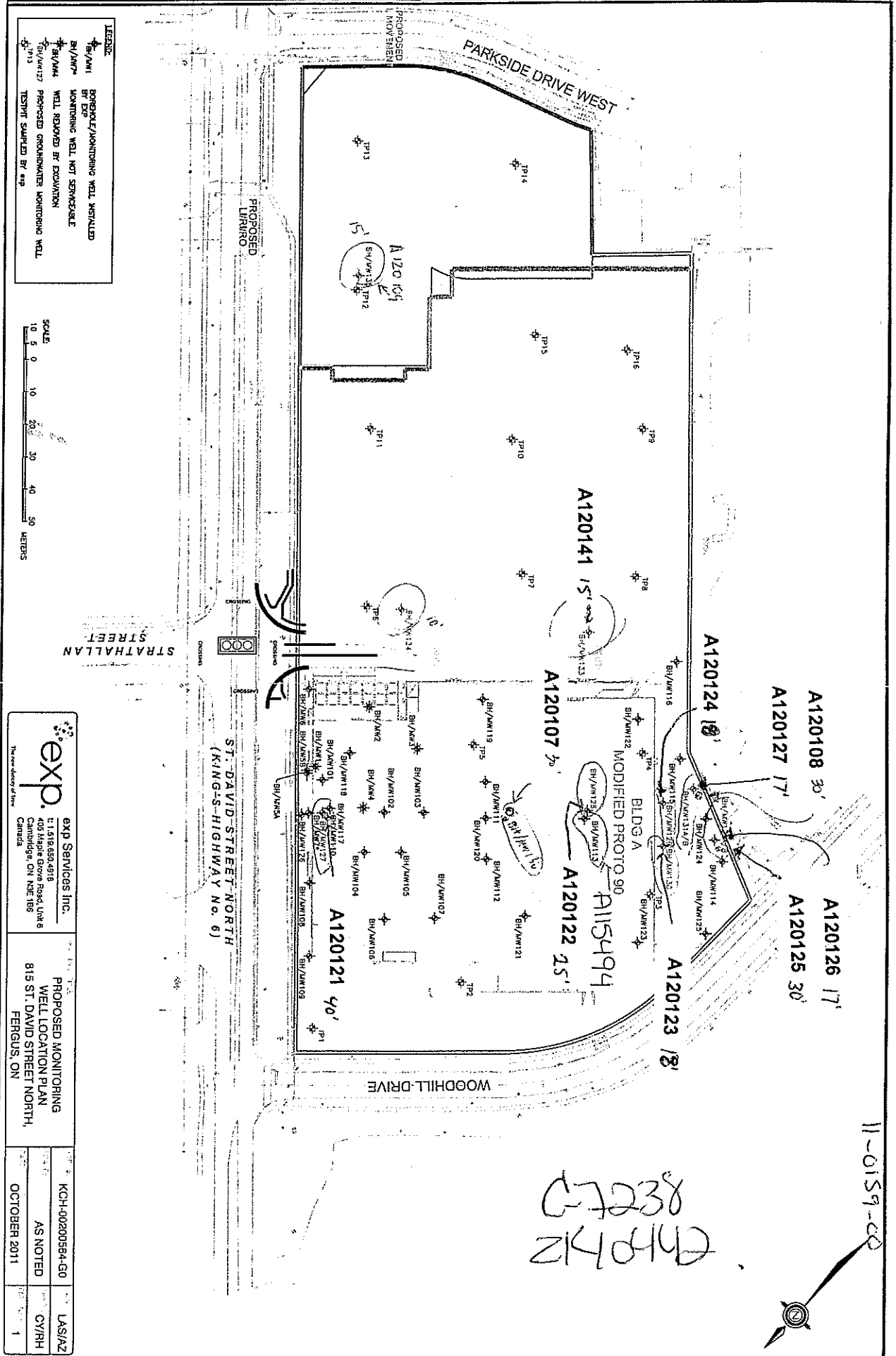
- ◆ BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EXP
- ◆ BH/AM7 MONITORING WELL NOT SERVICEABLE
- ◆ BH/AM4 WELL REMOVED BY EXCAVATION
- ◆ BH/AM12 PROPOSED GROUNDWATER MONITORING WELL
- ◆ TP13 TEST PIT SAMPLED BY EXP



**exp.**  
 exp Services Inc.  
 t: 1.519.850.4818  
 405 Maple Grove Road, Unit 6  
 Cambridge ON N2E 1R5  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

KCH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1



Handwritten notes: 238, 210712

11-0159-00



Measurements recorded in:  Metric  Imperial

Page \_\_\_ of \_\_\_

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use checkboxes

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details, Hole Diameter tables

Well Contractor and Well Technician Information

Well owner's information package delivered, Date Package Delivered, Date Work Completed

Map of Well Location, Comments, Ministry Use Only (Audit No., Date Submitted)



**LEGEND**

- BH/AM1: PROPOSED/MONITORING WELL INSTALLED
- BH/AM2: EXISTING WELL
- BH/AM3: MONITORING WELL NOT SERVICEABLE
- BH/AM4: WELL REMOVED BY EDCOM/DM
- BH/AM12: PROPOSED GROUNDWATER MONITORING WELL
- TP1-15: TEST PIT SAVED BY exp

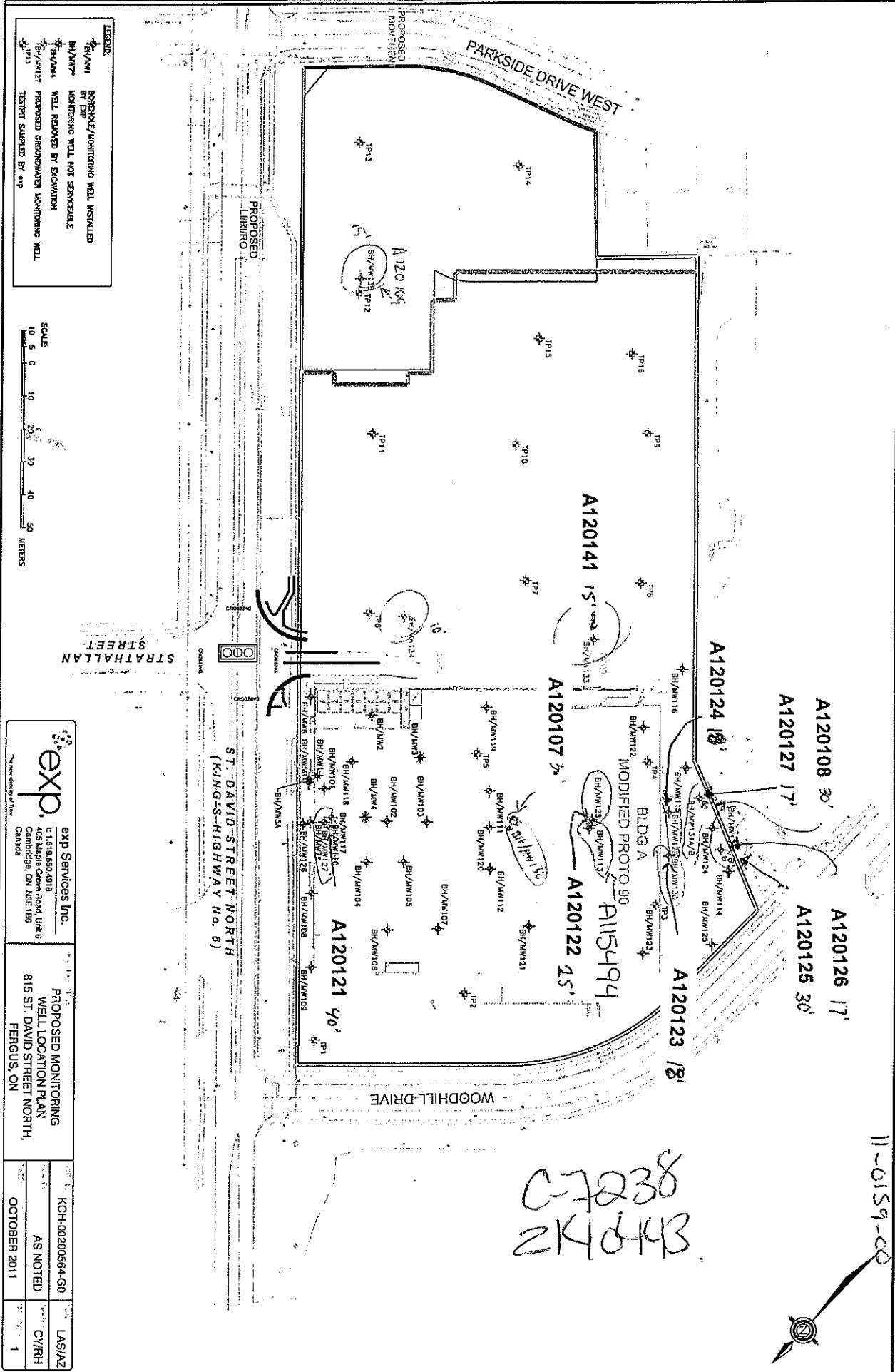


**exp.**  
 The Name Behind the Well

exp Services Inc.  
 1.151.9.650.418  
 405 Maple Grove Road, Unit 6  
 Cambridge, ON N3E 1B9  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

KCH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1



C-7238  
 214043

11-0159-00





Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120125

11-0159-00

Well Record

Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Making Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use checkboxes and options

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

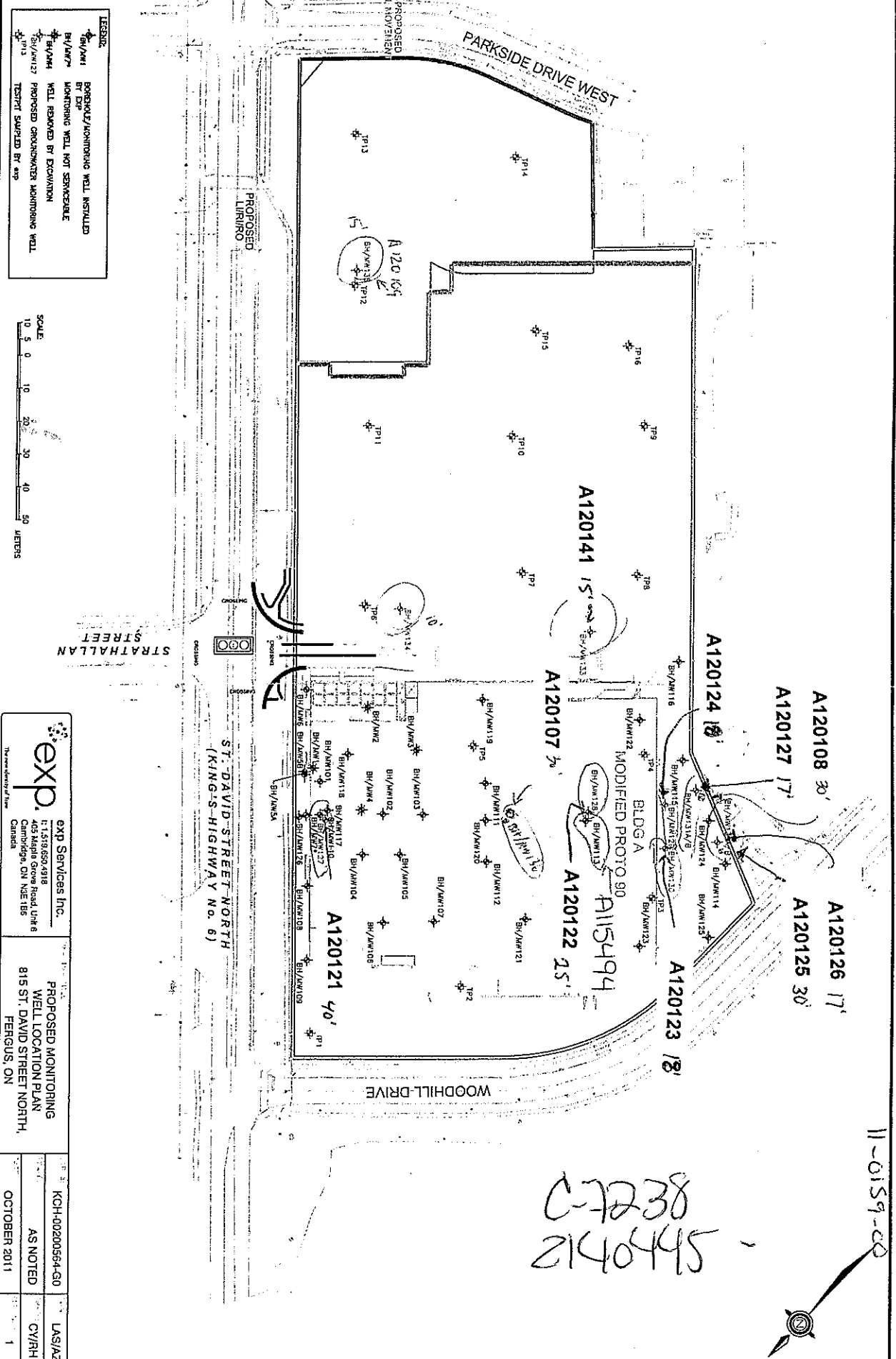
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details and Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information form

Well owner's information package delivered, Date Package Delivered, Date Work Completed

Map of Well Location, Comments, Ministry Use Only, Audit No., Date Submitted

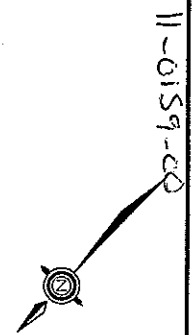


**exp**  
 exp Services Inc.  
 465 Maple Grove Road, Unit 6  
 Cambridge, ON N6E 1B5  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERGUS, ON

KOH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1

C-7238  
 2140445



JAN 19 2012



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

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

Water Details, Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information

Well owner's information package delivered, Date Package Delivered, Date Work Completed

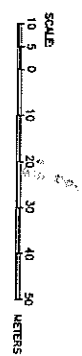
Map of Well Location, Please provide a map below following instructions on the back.

Please see attached map.

Ministry Use Only, Audit No. 2140444, Recd. JAN 19 2012

**LEGEND**

- BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EIP
- BH/AM2 MONITORING WELL NOT SERVICEABLE BY EIP
- BH/AM4 WILL REMOVED BY EXCAVATION
- BH/AM127 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SAMPLED BY EIP

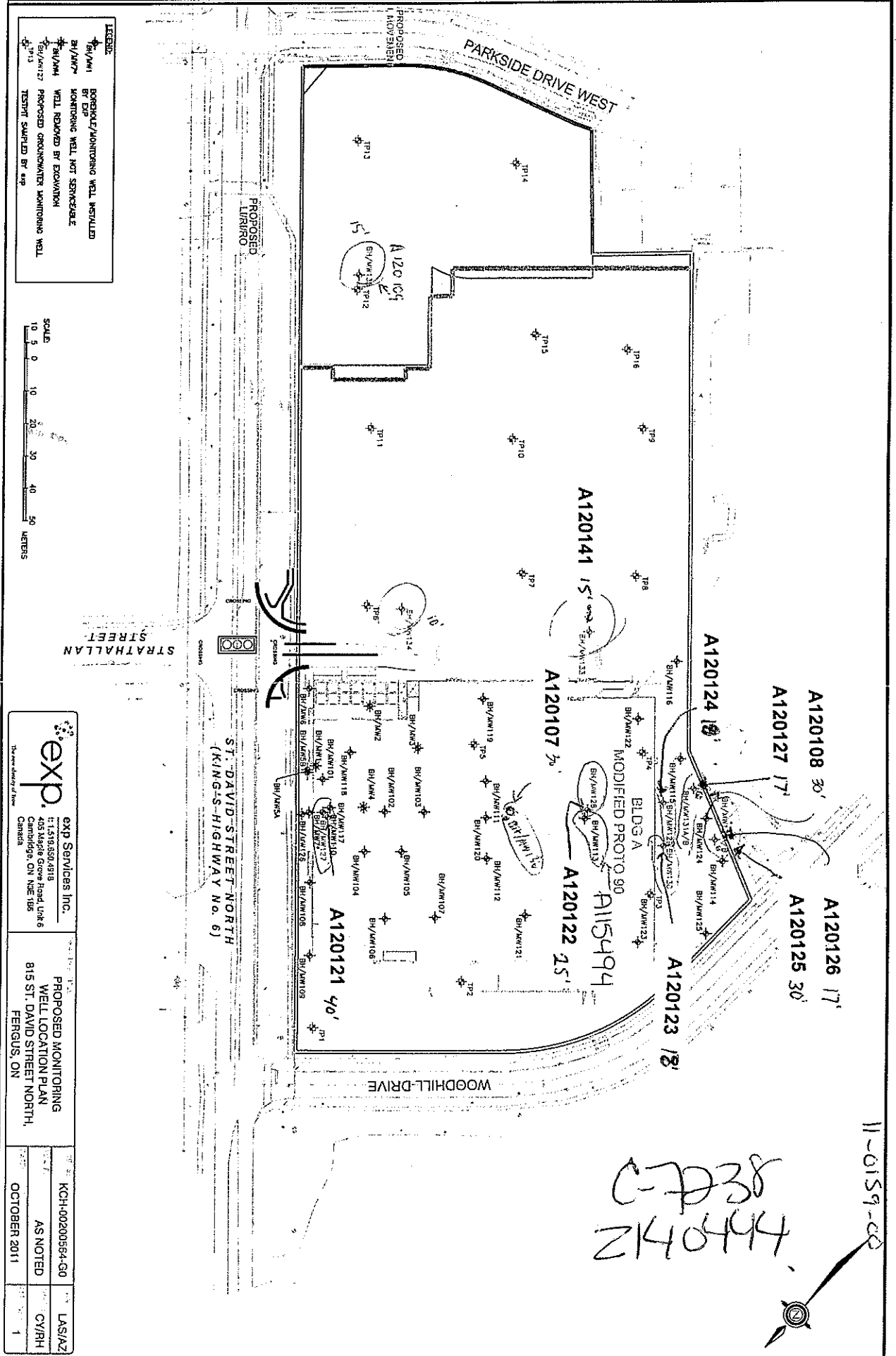


**exp.**  
The Power of Experience

exp Services Inc.  
t: 1.519.559.4818  
405 Maple Grove Road, Unit 6  
Cambridge, ON N6E 1S5  
Canada

PROPOSED MONITORING WELL LOCATION PLAN  
815 ST. DAVID STREET NORTH,  
FERGUS, ON

KOH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1



*Handwritten:* C-7238  
4440412

11-0159-00

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: \_\_\_\_\_ Last Name / Organization: **Fergus Shopping Centres Ltd.** E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): **100 Applewood Crescent, Suite 100** Municipality: **Vaughan** Province: **ON** Postal Code: **L4H 1K5** Telephone No. (inc. area code): **416 716 0620**

**Well Location**

Address of Well Location (Street Number/Name): **St. David St. N. + Woodhill Dr.** Township: **Nichol** Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: **Wellington** City/Town/Village: **Fergus** Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: **17S** Easting: **491916** Northing: **4840039** 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
<b>BROWN</b>	<b>SAND</b>	<b>SILT &amp; GRAVEL</b>		0' 13'
<b>GRAY</b>	<b>TILL</b>	<b>SAND &amp; SILT</b>		13' 15'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		
0' 4'	<b>BENTONITE CHIPS</b>	

**Results of Well Yield Testing**

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

**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 **AUGERING**  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	
2"	<b>PLASTIC</b>	<b>5/40</b>	0'	5'	<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 checked="" 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)	
			From	To
2"	<b>PLASTIC</b>	<b>#10</b>	5'	15'

**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
0	15' 8"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Aardvark Drilling Inc.** Well Contractor's Licence No.: **7121318**

Business Address (Street Number/Name): **25 Lewis Road - Unit C** Municipality: **Guelph**

Province: **ON** Postal Code: **N1H 2E9** Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): **519 826 9340** Name of Well Technician (Last Name, First Name): **England Matt**

Well Technician's Licence No.: **3101519** Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: **2011/12/13**

**Map of Well Location**

Please provide a map below following instructions on the back.

*Please see attached map.*

Comments: \_\_\_\_\_

**Ministry Use Only**

Well owner's information package delivered:  Yes  No

Date Package Delivered: **2011/12/26**

Date Work Completed: \_\_\_\_\_

Audit No.: **2140446**

Received: **JAN 19 2012**

**LEGEND**

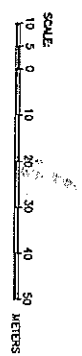
BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EXP

BH/AM2 MONITORING WELL NOT SERVICED BY EXP

BH/AM4 WELL REMOVED BY EXCAVATION

BH/AM12 PROPOSED GROUNDWATER MONITORING WELL

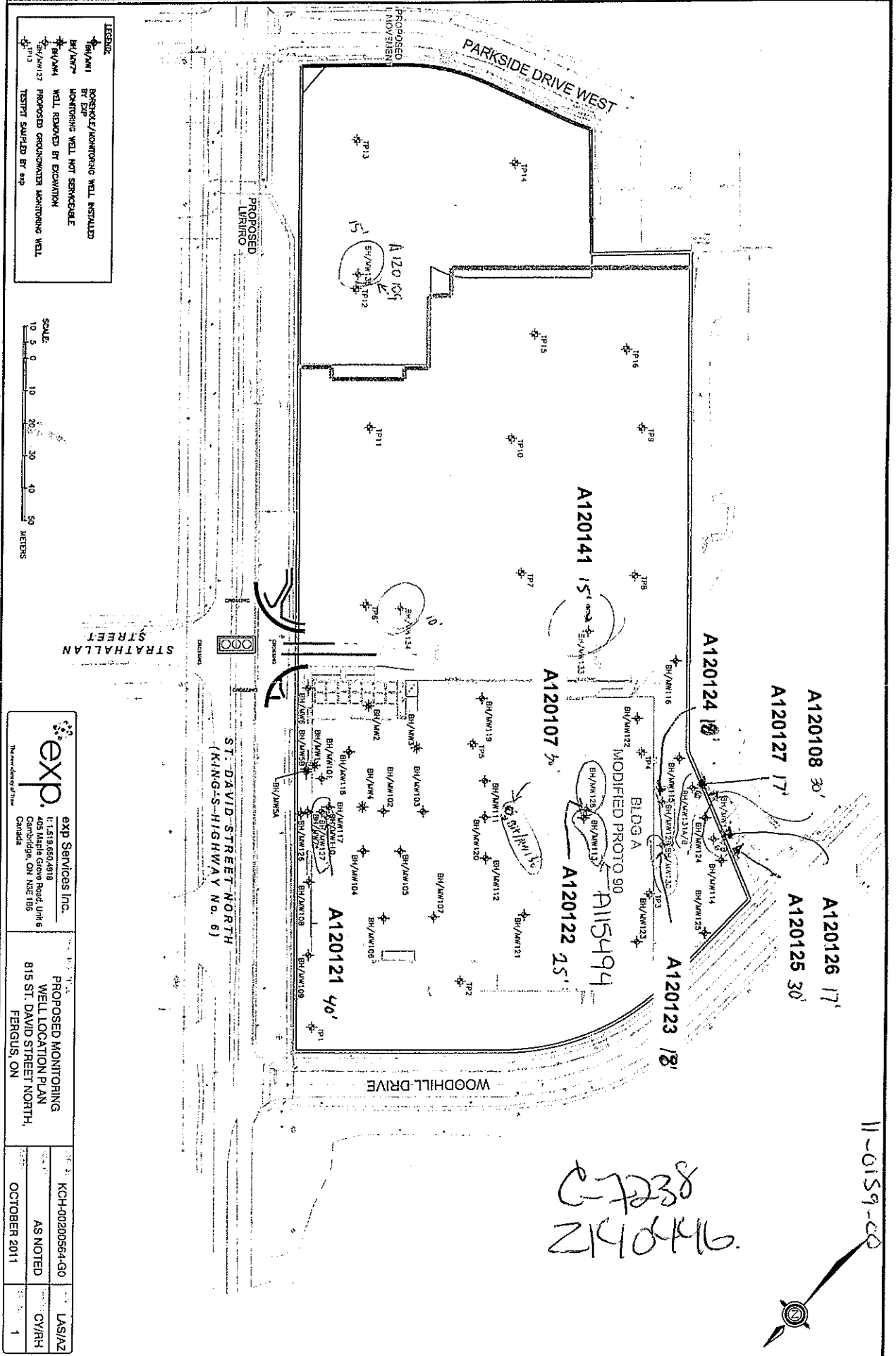
TP13 TEST PIT EXCAVATED BY EXP



**exp** Services Inc.  
 1-1-153-650-4918  
 465 Maple Grove Road, Unit 6  
 Cambridge, ON N6E 1R6  
 Canada

**PROPOSED MONITORING WELL LOCATION PLAN**  
 815 ST. DAVID STREET NORTH,  
 FERRIS, ON

KCH-00200564-G0  
 AS NOTED  
 OCTOBER 2011  
 LAS/AZ  
 CY/RH  
 1



*C-7238  
 2140416*

11-0159-00



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: \_\_\_\_\_ Last Name / Organization: **Ferrous Shopping Centres Ltd.** E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): **700 Applewood Crescent, Suite 100** Municipality: **Vaughan** Province: **ON** Postal Code: **L4K 1S3** Telephone No. (inc. area code): **416 716 0620**

**Well Location**

Address of Well Location (Street Number/Name): **St. David St. N. + Woodhill Dr.** Township: **Nichol** Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: **Wellington** City/Town/Village: **Ferrous** Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: **18** Easting: **75491** Northing: **1874840073** 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	Depth (m/ft) To
brown	sand	gravel		0	3.6
brown	silt	clay, stones		3.6	9.1

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	6.7	benetomite chips	
6.7	9.1	sand	

**Results of Well Yield Testing**

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

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?  Yes  No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
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  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	
5.1	plastic	0.65	0	7.6	<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 checked="" 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	
6.4	plastic	10	7.6	9.1	<input type="checkbox"/> Other, specify _____

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	9.1	9.8
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Hardwark Drilling Inc.** Well Contractor's Licence No.: **7121318**

Business Address (Street Number/Name): **25 Lewis Road - Unit C** Municipality: **Guelph**

Province: **ON** Postal Code: **N1H1E9** Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): **519 826 91840** Name of Well Technician (Last Name, First Name): **Gordon, Mitch**

Well Technician's Licence No.: **3590** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2011/11/07**

**Map of Well Location**

Please provide a map below following instructions on the back.

*Please see attached map.*

Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: **Y Y Y Y M M D D**  
**2011/11/03/1**

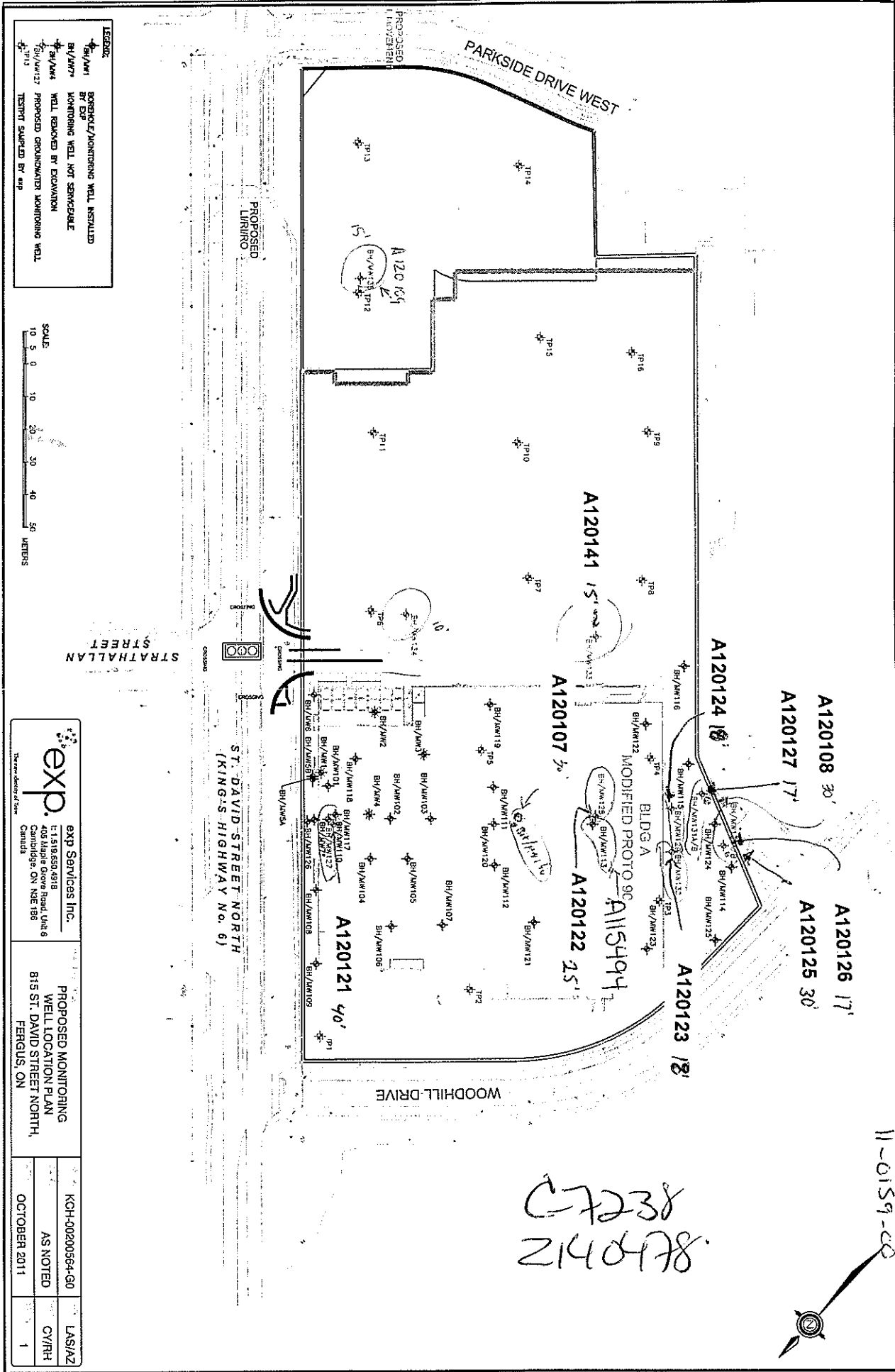
Date Work Completed: **2011/11/03/1**

**Ministry Use Only**

Audit No.: **Z140478**

Received: **JAN 19 2012**





214078  
 27238

11-0159-02

JAN 19 2012



Measurements recorded in:  Metric  Imperial

Page \_\_\_ of \_\_\_

A120109

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

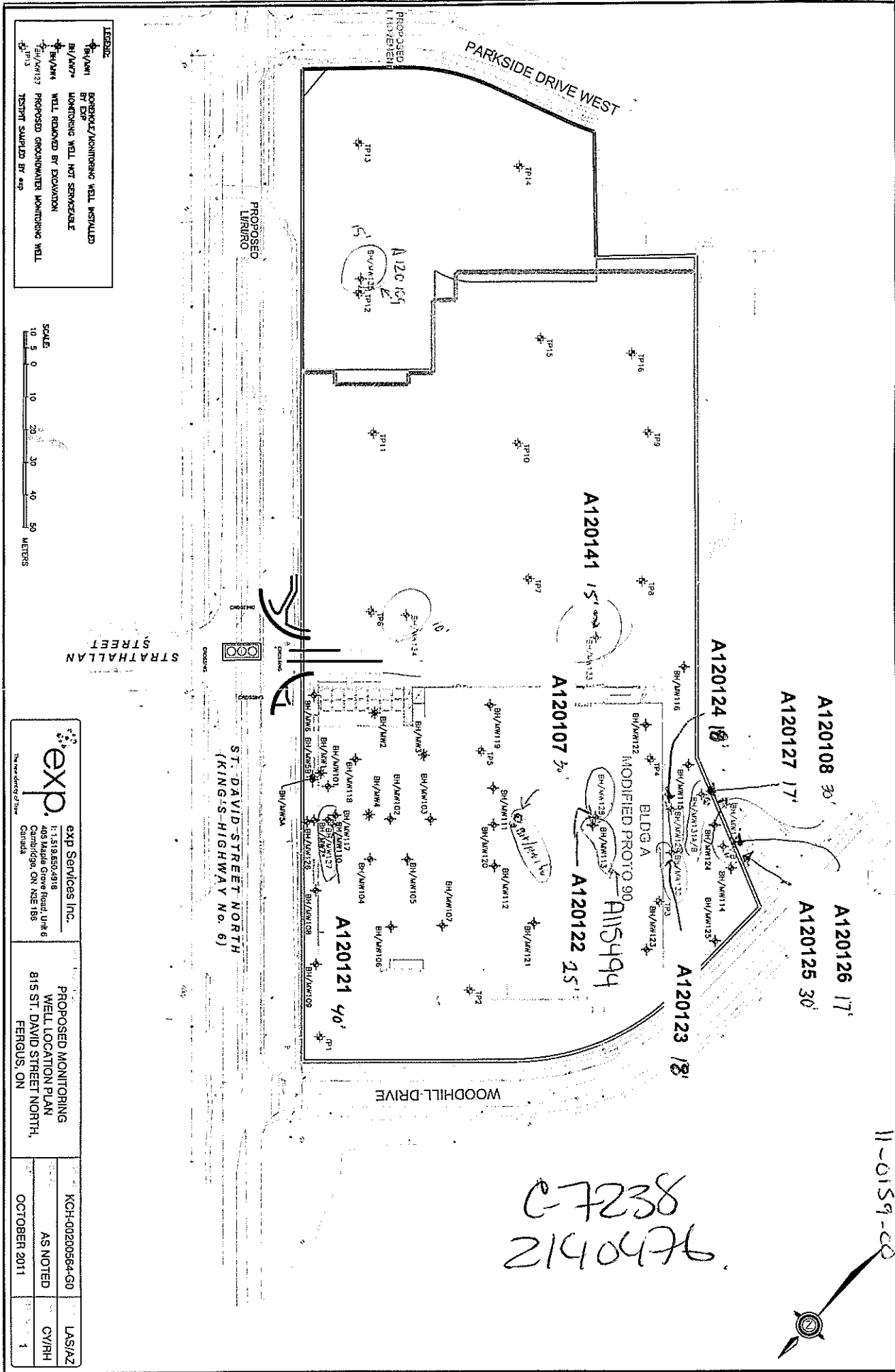
Water Details, Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information

Business Name of Well Contractor, Well Contractor's Licence No., Business Address (Street Number/Name), Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No. (inc. area code), Name of Well Technician (Last Name, First Name), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Map of Well Location, Please provide a map below following instructions on the back. Comments:

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only, Audit No., Z140476, JAN 19 2012



C-7238  
2140476

11-0159-00



A 120108

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction and Well Use checkboxes

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

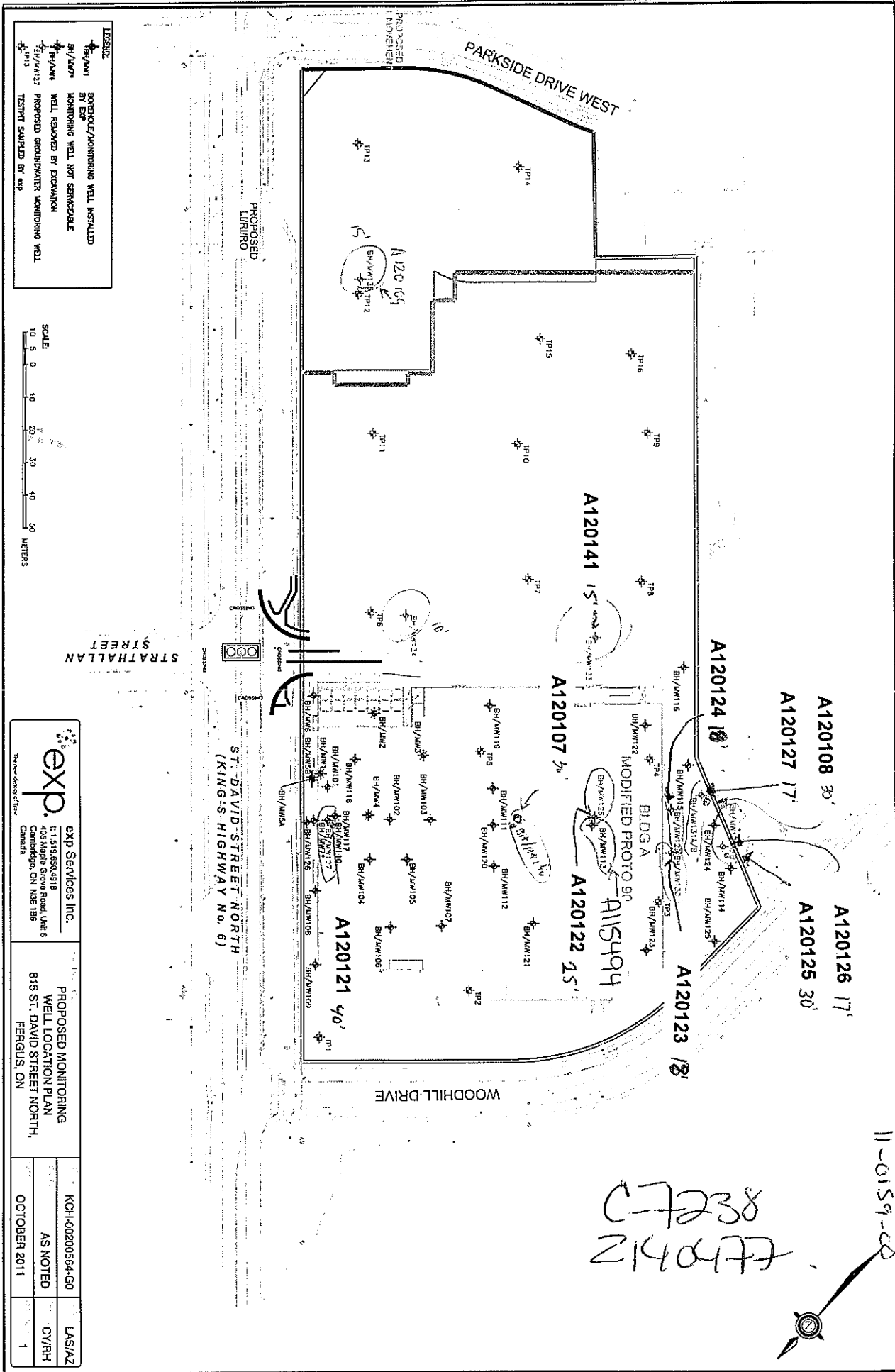
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details and Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information fields

Map of Well Location section with instructions and a handwritten note: 'Please see attached map.'

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only (Audit No., Date)



**LEGEND**

- BH/AW1 BOREHOLE/MONITORING WELL INSTALLED BY EXP
- BH/AW2 MONITORING WELL NOT SERVICABLE
- BH/AW4 WELL REMOVED BY ESCAVATION
- BH/AW127 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SUPPLIED BY EXP



**exp.**  
 exp Services Inc.  
 1.518.850.4918  
 405 Maple Grove Road, Unit 8  
 Cambridge, ON N6E 1R6  
 The New Address of Town  
 Canada

PROPOSED MONITORING WELL LOCATION PLAN  
 815 ST. DAVID STREET NORTH,  
 FERRIS, ON

KCH-00200564-G0	LAS/AZ
AS NOTED	CV/RH
OCTOBER 2011	1

JAN 19 2012

Handwritten notes: 11-0159-00, 214077, 88238



Address of Well Location (Street Number/Name) **51 Side Rd 19 RR#1** Township **Nichol** Lot **Park 3** Concession

County/District/Municipality **Wellington** City/Town/Village **Fergus** Province **Ontario** Postal Code **N1M2W3**

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number  
 NAD 83 **175488034840120** **Plan 71**

**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
	Deepened Previously Bored Well			
	Brown Med Sand			12 1/2 16
	Brown Clay			16 18
	Grey Clay			18 29
	Grey Fine Sand	Clay Stone		29 31

**Annular Space**

Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
7 31	Un known Filter Sand	

**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	13' 2"		15' 4"	
1		1		
2		2		
3		3		
4		4		
5		5		
10		10		
15	13 11	15	10' 6"	
20		20		
25		25		
30	14 5	30	10' 1"	
40		40		
50		50		
60	15' 4"	60	10' 1"	

Pump intake set at (m/ft) **25'**

Pumping rate (l/min / GPM) **10 Gpm**

Duration of pumping **1 hrs + 00 min**

Final water level end of pumping (m/ft) **15' 4"**

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft) **25'**

Recommended pump rate (l/min / GPM) **5 Gpm Int**

Well production (l/min / GPM) **7 Gpm**

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

**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	3"	+1	12 1/2	<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
24"	Galvanized	1 1/4"	7	31	

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Hole Diameter
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft) From To
11		12 1/2 31
		Diameter (cm/in) <b>28"</b>

**Well Contractor and Well Technician Information**

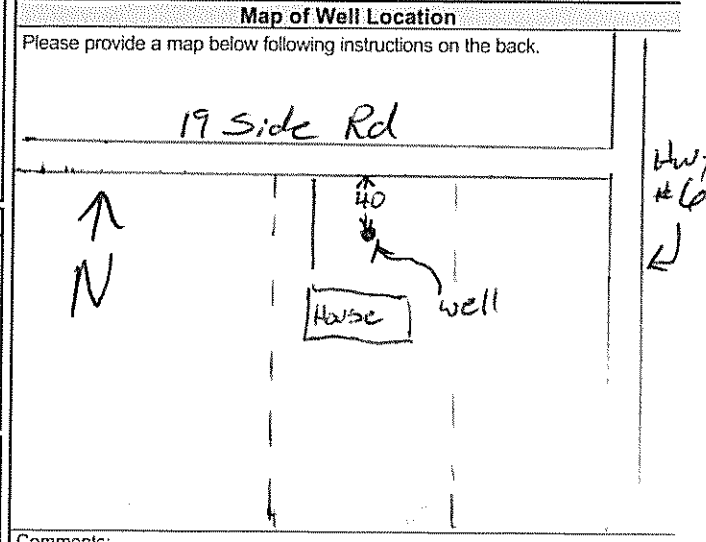
Business Name of Well Contractor **Johnson & Baetz** Well Contractor's Licence No. **7492**

Business Address (Street Number/Name) **52 Church Johnson & Baetz Rd RR#1** Municipality **Waterford**

Province **On** Postal Code **N0E1Y0** Business E-mail Address

Bus. Telephone No. (inc. area code) **519 443 0045** Name of Well Technician (Last Name, First Name) **Avez Dorey**

Well Technician's Licence No. **2988** Signature of Technician and/or Contractor *[Signature]* Date Submitted **Y Y Y Y M M D D**



Well owner's information package delivered  Yes  No

Date Package Delivered **Y Y Y Y M M D D**

Date Work Completed **Y Y Y Y M M D D**

**Ministry Use Only**

Audit No. **Z154219**

**DEC 19 2012**

Address of Well Location (Street Number/Name) **53 Side Rd 19** Township **Nichol** Lot **Pt Park 348** Concession **Moorehead Serv**  
 County/District/Municipality **Wellington** City/Town/Village **Fergus** Province **Ontario** Postal Code  
 UTM Coordinates Zone **18** Easting **3117548784** Northing **4640098** Municipal Plan and Sublot Number **Plan 71** 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
	Deepened Previously Bored Well				
Brown	Med Sand			12 1/2	16
Brown	Clay			16	18
Brown	Fine Sand			18	20
Grey	Clay			20	29
Grey	Fine Sand	Clay & Stone		29	30

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To	
6	30 Filter Sand	
	Unknown	

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

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	
36"	Concrete	3"	6	12 1/2	
24"	Galvanized	1/4"	6	30	

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

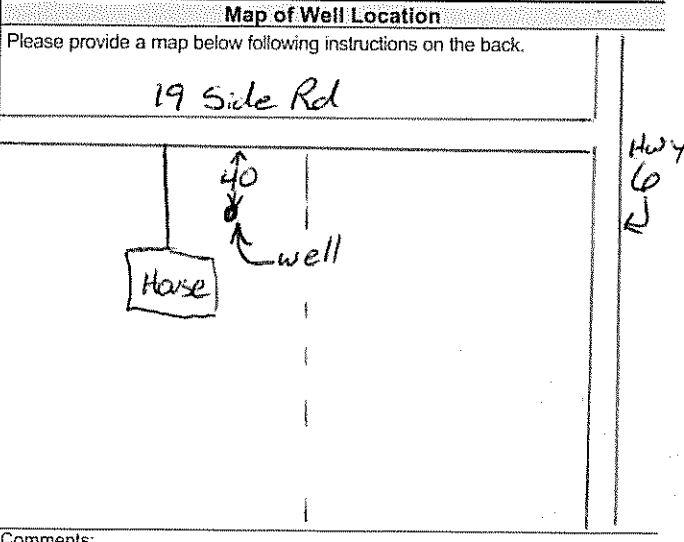
Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
11	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	12 1/2	30
			28"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Johnson & Baetz** Well Contractor's Licence No.: **7492**  
 Business Address (Street Number/Name): **52 Church Rd RR#1** Municipality: **Waterford**  
 Province: **On** Postal Code: **N0E1Y0** Business E-mail Address:

Bus. Telephone No. (inc. area code): **519 443 0045** Name of Well Technician (Last Name, First Name): **Avey Darcy**  
 Well Technician's Licence No.: **2988** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **Y Y Y Y M M D D**

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" 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	10'9"		13'4"
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
Pump intake set at (m/ft): <b>25'</b>				
Pumping rate (l/min / GPM): <b>5 Gpm</b>				
Duration of pumping: <b>1 hrs + 00 min</b>				
Final water level end of pumping (m/ft): <b>13'4"</b>				
If flowing give rate (l/min / GPM):	15	12'6"	15	11'3"
Recommended pump depth (m/ft): <b>24'</b>				
Recommended pump rate (l/min / GPM): <b>5 Gpm Int</b>	30	12'11"	30	10'9"
Well production (l/min / GPM): <b>3 Gpm</b>	40		40	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50		50	
	60	13'4"	60	10'9"



Comments:

Well owner's information package delivered: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered: <b>Y Y Y Y M M D D</b>	<b>Ministry Use Only</b> Audit No. <b>z 154217</b> Received <b>DEC 19 2012</b>
Date Work Completed: <b>Y Y Y Y M M D D</b>		

No Tag

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name): 0048 Sideroad 19  
 Township: Centre Wellington (Nichol) Lot: Pt 19 Concession: 15  
 County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: N1M2W3  
 UTM Coordinates: Zone: 83 Easting: 17548789 Northing: 48401173  
 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
	Abandonment of 36" dug well		Bentonite Chips	3.05	2.43
	Concrete removed 1.2m below grade		Natu Soil	2.43	0.00

**Annular Space**

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
3.05	2.43	Bentonite Chips	0.41
2.43	0	Clay Silt	1.60

**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	
91.4	Concrete		3.05	0.00	<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 Municipal Supply <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"/> 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 Municipal Supply <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 (cm/in)

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Well Initiatives Ltd Well Contractor's Licence No.: 72211  
 Business Address (Street Number/Name): S Townline Rd Municipality: Orangeville  
 Province: ON Postal Code: L9W3R4 Business E-mail Address: info@wellinitatives.com  
 Business Telephone No. (inc. area code): 519 846 8289 Name of Well Technician (Last Name, First Name): BROADFOOT JIM  
 Well Technician's Licence No.: 0370 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20121221

**Results of Well Yield Testing**

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

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):

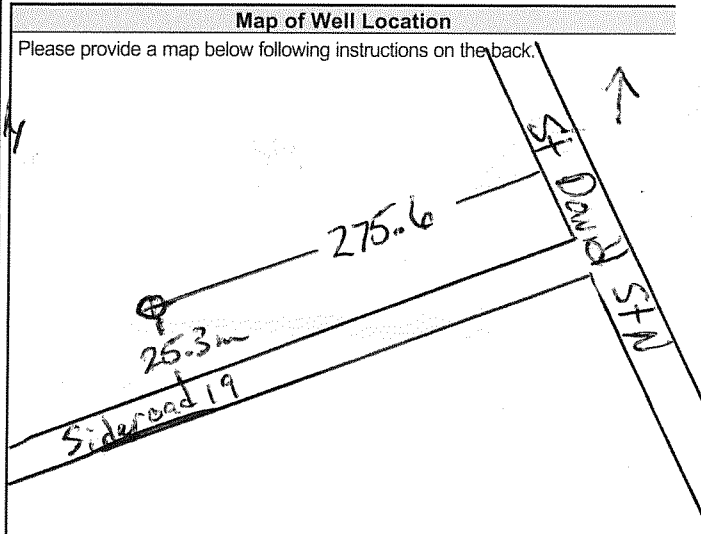
Recommended pump depth (m/ft):

Recommended pump rate (l/min / GPM):

Well production (l/min / GPM):

Disinfected?  Yes  No

Time (min)	Draw Down (m/ft)		Recovery (m/ft)	
	Water Level	Time	Water Level	Time
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		



Comments:

Well owner's information package delivered:  Yes  No

Date Package Delivered: YYY Y M M D D  
 Date Work Completed: 20121221

**Ministry Use Only**

Audit No.: Z 159310  
 Recd: JAN 04 2013



Measurements recorded in:  Metric  Imperial

No Tag

Page 1 of 1

Address of Well Location (Street Number/Name) 0140 Sideroad 19 Township Centre Wellington (Nichol) Lot Pt 19 Concession 15  
 County/District/Municipality Wellington City/Town/Village Fergus Province Ontario Postal Code N1M2W3  
 UTM Coordinates Zone 18 Easting 117548553 Northing 48399111 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)
				From To
	Abandonment of 36" dugwell.		Bentonite Chips	3.35 2.85
	Approximate depth is 3.3 m		Native Soil	2.85 0.00
	Concrete Removal 1.5m below ground		(clay-silt)	

**Annular Space**

Depth Set at (m)	Type of Sealant Used (Material and Type)	Volume Placed (m³)
From To		
3.35 2.85	Bentonite Chips	0.33
2.85 0	Clay-silt	1.85

**Results of Well Yield Testing**

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level				
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		

After test of well yield, water was:  
 Clear and sand free  
 Other, specify \_\_\_\_\_  
 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?  Yes  No

**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	
91.4	concrete		3.35	0.00	<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>Municipal supply</u> <input type="checkbox"/> Other, specify _____

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**Water Details**

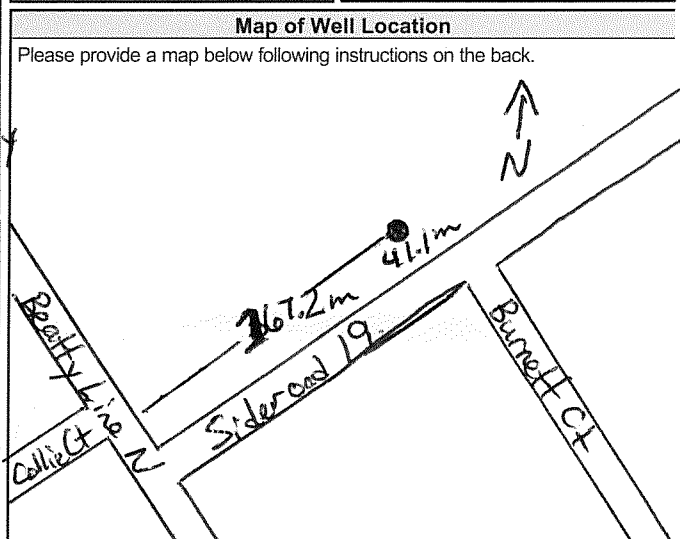
Water found at Depth (m/ft)	Kind of Water:
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
	<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 Well Initiatives Ltd Well Contractor's Licence No. 72211  
 Business Address (Street Number/Name) 15 Townline Rd Municipality Orangeville  
 Province ON Postal Code L9W3R4 Business E-mail Address info@wellinitiatives.com  
 Bus. Telephone No. (inc. area code) 5198468289 Name of Well Technician (Last Name, First Name) Graff, Dwayne  
 Well Technician's Licence No. 2753 Signature of Technician and/or Contractor \_\_\_\_\_ Date Submitted 2012/12/12



Comments: \_\_\_\_\_

Well owner's information package delivered  Yes  No

Date Package Delivered 2012/12/12

Date Work Completed \_\_\_\_\_

**Ministry Use Only**

Audit No. z 159313

Received JAN 04 2013

Measurements recorded in:  Metric  Imperial

Page 1 of 1

No Tag

Address of Well Location (Street Number/Name): 0102 Sideroad 19  
 Township: Centre Wellington (Nickd) Pt 19  
 County/District/Municipality: Wellington  
 City/Town/Village: Fergus  
 Province: Ontario  
 Postal Code: N1M2W3  
 UTM Coordinates: Zone 17, Easting 548553, Northing 4839911  
 Municipal Plan and Sublot Number: [Blank]

**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)
				From To
	Abandonment of a 36" dugwell		Bentonite Chips	3.35 2.65
	Approximate depth is 3.3 m			
	Concrete removed 1-6 m below ground		Native Soil (clay-silt)	2.65 0.00

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used	Volume Placed
From To	(Material and Type)	(m <sup>3</sup> )
3.35 2.85	Bentonite	0.33
2.65 0	clay-silt	0.46
		1.67

**Results of Well Yield Testing**

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level				
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		

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

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?  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 \_\_\_\_\_  
 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	
91.4	concrete		3.35	0.00	<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 Municipal supply <input type="checkbox"/> Other, specify _____

**Construction Record - Screen**

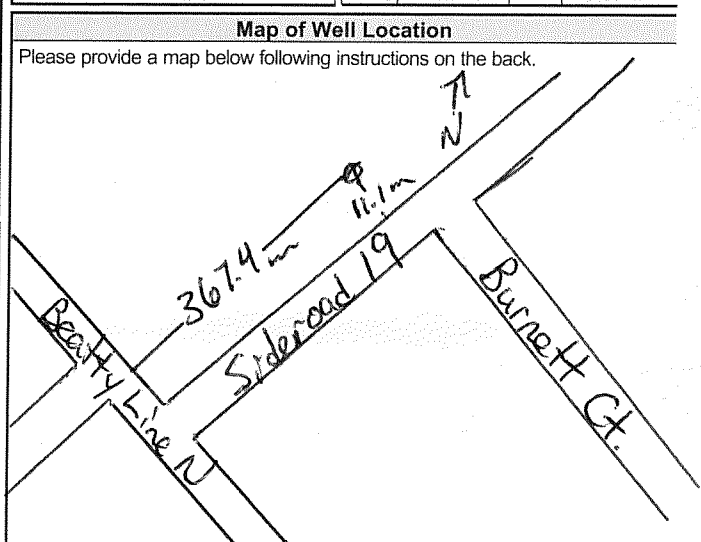
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	

**Water Details**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Well Initiatives Ltd  
 Well Contractor's Licence No.: 72211  
 Business Address (Street Number/Name): 5 Townline Rd  
 Municipality: Orangeville  
 Province: ON  
 Postal Code: L9W3R4  
 Business E-mail Address: info@wellinitiatives.com



Business Telephone No. (inc. area code): 519 846 8289  
 Name of Well Technician (Last Name, First Name): Graft, Dwayne  
 Well Technician's Licence No.: 2753  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 20121212

Well owner's information package delivered:  Yes  No

Date Package Delivered: YYY Y M M D D  
 Date Work Completed: 20121211

**Ministry Use Only**

Audit No.: 2159314  
 JAN 04 2013

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name <b>JAMES KEATING</b>	Last Name / Organization <b>CONSTRUCTION LTD</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>70 MATHIESON ST</b>	Municipality <b>WELLINGTON</b>	Province <b>ON</b>	Postal Code <b>N0B1S0</b>
		Telephone No. (inc. area code) <b>519 846 9704</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>BEATTY LINE N &amp; MILLAGE LN</b>	Township <b>MIDDLETON</b>	Lot	Concession
County/District/Municipality <b>WELLINGTON</b>	City/Town/Village <b>FERRIS</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates NAD 83 <b>17548648 4839425</b>	Zone Easting <b>17548648</b>	Northing <b>4839425</b>	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	TOPSOIL		loose	0	0.6
BROWN	FILL		Loose	0.6	1.5
BROWN	SILT	SAND	face on	1.5	3
GREY	SILT	CLAY		3	4.2

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
0 - 0.9	3/8 NAEP LUG	< 1	
0.9 - 4.2	#2 SAND	< 1	

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	
	25		25	
	30		30	
	40		40	
Recommended pump depth (m/ft)	50		50	
Recommended pump rate (l/min / GPM)	60		60	
Well production (l/min / GPM)	Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No			

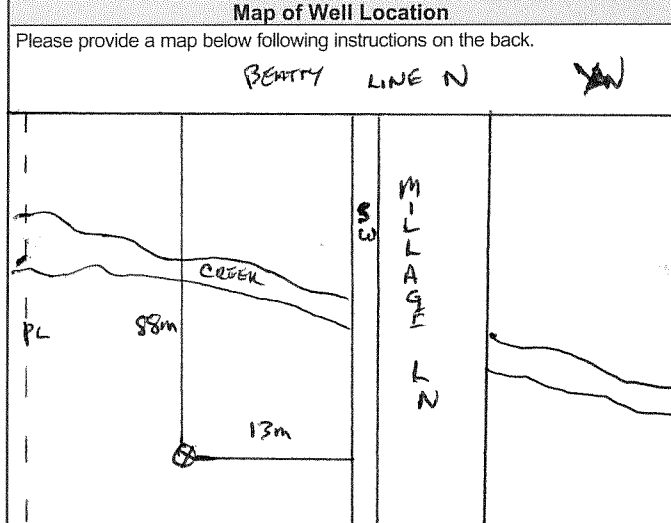
Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input checked="" type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<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)		
			From	To	
2.54	PLASTIC		0	1.5	<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 checked="" 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)	
			From	To
3.3	PLASTIC	10	1.5	4.2

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From	To
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0	4.2
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		10
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 _____		

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>KEATING &amp; CO. ENG. INC.</b>	Well Contractor's Licence No. <b>7366</b>		
Business Address (Street Number/Name) <b>1011 INDUSTRIAL CRES</b>	Municipality <b>WATERLOO</b>		
Province <b>ON</b>	Postal Code <b>N0B1M0</b>	Business E-mail Address <b>CAN@GORDEN.NET</b>	
Bus. Telephone No. (inc. area code) <b>519 699 5775</b>	Name of Well Technician (Last Name, First Name) <b>DAVIES, BUD</b>		
Well Technician's Licence No. <b>3458</b>	Signature of Technician and/or Contractor 		Date Submitted <b>2013 04 29</b>



Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y   M M   D D <b>2013 04 29</b>	<b>Ministry Use Only</b> Audit No. <b>Z 161337</b> Received <b>MAY 03 2013</b>
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Well Tag No. (Place Sticker and/or Print Below)
Tag#: A140483

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: JAMES KEATING, Last Name / Organization: CONSTRUCTION LTD., Mailing Address: 70 MATHIESON ST, Municipality: WELLINGTON, Province: ON, Postal Code: N0B1S0, Telephone No.: 519 846 9704

Well Location

Address of Well Location: 6509 BEATTY LN, Township: MAPLETON, City/Town/Village: FERGUS, Province: Ontario, UTM Coordinates: NAD 83 17 54 8 44 6 48 39 52 4

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Rows include: BROWN TOPSOIL, BROWN FILL, BROWN SILT SAND, LOOSE, LOOSE, PACKED.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed (m³/ft³). Rows include: 0-1.5 3/8 HOLE PLUG, 1.5-3.9 #2 SAND.

Method of Construction and Well Use checkboxes. Includes options for Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Domestic, Livestock, Irrigation, Industrial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well. Row includes: 2.54 PLASTIC, 0-2.1, Observation and/or Monitoring Hole.

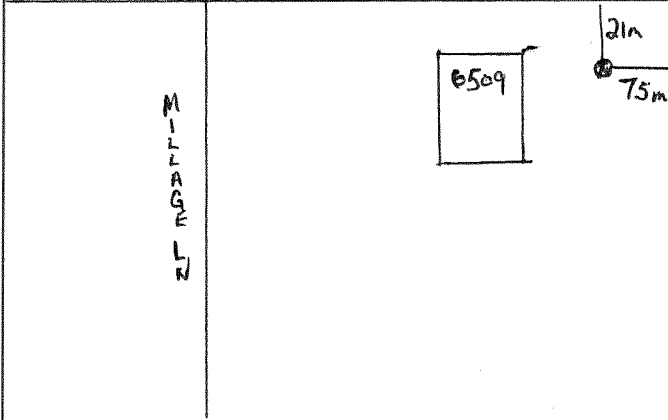
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well. Row includes: 3.3 PLASTIC, 10, 21-3.9, Abandoned, Insufficient Supply.

Water Details and Hole Diameter tables. Water found at Depth (m/ft) and Kind of Water (Fresh, Untested, Gas, Other). Hole Diameter (m/ft) and Diameter (cm/in).

Well Contractor and Well Technician Information. Business Name: CMT ENG INC, Business Address: 1011 INDUSTRIAL CRES, Municipality: WATERLOO, Well Contractor's Licence No.: 7366, Well Technician: DANIES BUD, Licence No.: 3458, Date Submitted: 20130429.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate, duration, and final water level data.

Map of Well Location. Please provide a map below following instructions on the back.



Comments, Well owner's information package delivered (Yes/No), Date Package Delivered (20130429), Date Work Completed (20130429), Ministry Use Only Audit No. Z161334, Received MAY 03 2013.





Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

Tag#: A152843

A152843

S-14856 Well Record Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in: Metric Imperial

1554366 ONTARIO INC.

Address of Well Location (Street Number/Name) 820 St. David St. N, Township, Lot, Concession, County/District/Municipality Fergus, Province Ontario, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

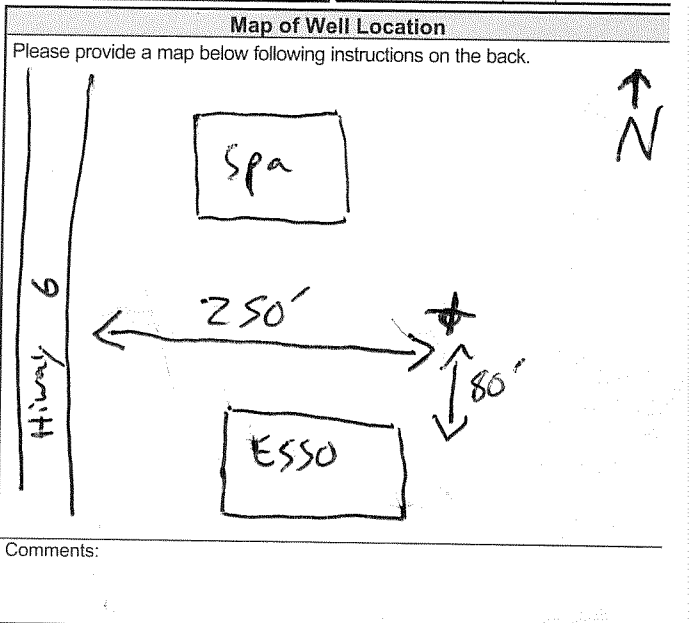
Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Digging, Public, Domestic, Livestock, Irrigation, Industrial, Commercial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To, Status of Well checkboxes

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To, Status of Well checkboxes

Water Details and Hole Diameter tables with columns: Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information form with fields: Business Name, Address, Licence No., Municipality, Province, Postal Code, Business E-mail Address, Name of Well Technician, Signature, Date Submitted



Well owner's information package delivered checkboxes: Yes, No, Date Package Delivered, Date Work Completed

Ministry Use Only form with fields: Audit No., Date Received



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

WELL ABANDONMENT

Well Owner's Information

First Name: JAMES KEATING, Last Name / Organization: CONSTRUCTION LTD, Mailing Address: 70 MATHEWSON ST, Municipality: WELLINGTON, Province: ON

Well Location

Address of Well Location: 6509 BEATTY LN, Township: WELLINGTON, City/Town/Village: FELGUS, Province: Ontario

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Entry: MW ABANDONED, 0 to 3.9.

Annular Space: Depth Set at (m/ft) 0 to 3.9, Type of Sealant Used: 3/8 HOLEPLUG, Volume Placed: <1

Results of Well Yield Testing: Table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate and duration.

Method of Construction: Boring, Well Use: Commercial, Not used.

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft), Status of Well: Abandoned, other, specify Construction.

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth (m/ft), Status of Well: Abandoned, other, specify Construction.

Water Details: Water found at Depth, Kind of Water (Fresh, Untested, Gas, Other), Hole Diameter: Depth (m/ft), Diameter (cm/in).

Well Contractor and Well Technician Information: Business Name: CMT ENG INC, Well Contractor's Licence No.: 7366, Well Technician: DAVIES, BLD.

Map of Well Location: BEATTY LN, 6509, 21m, 75m. Includes date package delivered: 20140529.

Measurements recorded in:  Metric  Imperial

WELL ABANDONMENT

**Well Owner's Information**

First Name: JAMES KEATINGE  
 Last Name / Organization: CONSTRUCTION LTD.  
 E-mail Address: \_\_\_\_\_  
 Well Constructed by Well Owner

Mailing Address (Street Number/Name): 70 MATHIESON ST.  
 Municipality: WELLINGTON  
 Province: ON  
 Postal Code: \_\_\_\_\_  
 Telephone No. (inc. area code): \_\_\_\_\_

**Well Location**

Address of Well Location (Street Number/Name): BEATTY LN & MILLAGE LN  
 Township: \_\_\_\_\_  
 Lot: \_\_\_\_\_  
 Concession: \_\_\_\_\_

County/District/Municipality: WELLINGTON  
 City/Town/Village: FERGUS  
 Province: Ontario  
 Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: Easting: Northing: \_\_\_\_\_  
 Municipal Plan and Sublot Number: \_\_\_\_\_

**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
		MW ABANDONED		0	4.2

**Annular Space**

Depth Set at (m/ft): From 0 To 4.2  
 Type of Sealant Used (Material and Type): 3/8 HELEPLUG  
 Volume Placed (m³/ft³): C1

**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 type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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  Rotary (Conventional)  Rotary (Reverse)  Boring  Air percussion  Other, specify

Diamond  Jetting  Driving  Digging

**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	
					<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 CONSTRUCTION <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"/> 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 CONSTRUCTION <input type="checkbox"/> Other, specify

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	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: CMT ENR INC  
 Well Contractor's Licence No.: 7366  
 Business Address (Street Number/Name): 1011 INDUSTRIAL CRCS  
 Municipality: WATERLOO  
 Province: ON  
 Postal Code: N0B2M0  
 Business E-mail Address: CMT INC - NET

Bus. Telephone No. (inc. area code): 5196995775  
 Name of Well Technician (Last Name, First Name): DAVIES BLO  
 Well Technician's Licence No.: 3458  
 Signature of Technician and/or Contractor: \_\_\_\_\_  
 Date Submitted: 20140602

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No  
 Date Package Delivered: \_\_\_\_\_  
 Date Work Completed: 20140529

**Ministry Use Only**  
 Audit No.: Z186493  
 JUN 09 2014



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name	Last Name / Organization <b>KINGMA</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>SIDE RD 10</b>	Municipality <b>fergus</b>	Province <b>ONT</b>	Postal Code <b>0054</b>
Telephone No. (inc. area code)			

**Well Location**

Address of Well Location (Street Number/Name)	Township <b>NICHOL</b>	Lot <b>15</b>	Concession <b>15</b>
County/District/Municipality <b>WELLINGTON</b>	City/Town/Village	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>17</b> Easting <b>548758</b> Northing <b>4840116</b>	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
<del>BLK</del>				
	<b>PLUG *6in well</b>			

Annular Space			
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
0 6ft	bentonite clay fill		
6ft 112ft	BENTONITE		
112ft 185ft	CLEAN SAND		

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"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<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 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 <input type="checkbox"/> Other, specify
			From	To	

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

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	
	25		25	
	30		30	
	40		40	
Recommended pump depth (m/ft)	50		50	
	60		60	
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		

**Map of Well Location**

Please provide a map below following instructions on the back.

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) From To	Diameter (cm/in)

**Well Contractor and Well Technician Information**

Business Name of Well Contractor <b>KEITH LANG WELL DRILLING INC</b>	Well Contractor's Licence No. <b>7154</b>
Business Address (Street Number/Name) <b>251 ELDON ST GODERICH</b>	Municipality
Province <b>ONT</b>	Postal Code <b>N7A2R9</b>
Business E-mail Address	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name) <b>KEITH LANG</b>
Well Technician's Licence No. <b>T445</b>	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted <b>Y Y Y Y M M D D</b>

Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered <b>Y Y Y Y M M D D</b>	<b>Ministry Use Only</b> Audit No <b>Z 198021</b> MAY 21 2015
Date Work Completed <b>2015 4 10 D D</b>		

No Tag

Address of Well Location (Street Number/Name) <b>69 Sideroad 19</b>		Township <b>Gen Wellington (Nichol)</b>	Lot	Concession
County/District/Municipality <b>Wellington</b>		City/Town/Village <b>Fergus</b>	Province <b>Ontario</b>	Postal Code <b>N1M2W4</b>
UTM Coordinates NAD 83	Zone <b>17</b>	Easting <b>548715</b>	Northing <b>4840045</b>	Municipal Plan and Sublot Number

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
			Abandonment of 36" concrete dugwell native fill	0 8'
			concrete tile removed 6' below grade bentonite chips	8' 11'9"

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> )
0 8'	native fill	
8 11'9"	bentonite chips	26.49

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 checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <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)	
			From	To
36	concrete			

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

Well Contractor and Well Technician Information	
Business Name of Well Contractor <b>Well Initiatives Limited</b>	Well Contractor's Licence No. <b>72211</b>
Business Address (Street Number/Name) <b>15 Townline Orangeville</b>	Municipality
Province <b>ON</b>	Postal Code <b>L9W3R4</b>
Business E-mail Address <b>info@wellinitiatives.com</b>	

Bus. Telephone No. (inc. area code) <b>5198468289</b>	Name of Well Technician (Last Name, First Name) <b>Weed, Patrick</b>
Well Technician's Licence No. <b>3800</b>	Signature of Technician and/or Contractor <i>Patrick Weed</i>
	Date Submitted <b>20150602</b>

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

Map of Well Location
Please provide a map below following instructions on the back.
Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>20150526</b>	<b>Ministry Use Only</b> Audit No. <b>Z 211482</b> <b>JUN 23 2015</b> Received
	Date Work Completed <b>20150526</b>	



Measurements recorded in:  Metric  Imperial

Tag #: A176776 A176776

5-18725 Page \_\_\_\_\_ of \_\_\_\_\_

Address of Well Location (Street Number/Name) **810 St. David St. N.** Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_

County/District/Municipality \_\_\_\_\_ City/Town/Village **Fergus** Province **Ontario** Postal Code \_\_\_\_\_

UTM Coordinates Zone Easting Northing **8 3 17 549230 4840184** 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
Black	Asphalt		Soft	0	0.5
Brown	Sand	Gravel	Soft	0.5	15

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 - 1	Concrete	
1 - 4	Bentonite	
4 - 15	Silica Sand	

**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	
	3		3	
Pumping rate (l/min / GPM)	4		4	
	5		5	
Duration of pumping hrs + min	10		10	
	15		15	
Final water level end of pumping (m/ft)	20		20	
	25		25	
If flowing give rate (l/min / GPM)	30		30	
	40		40	
Recommended pump depth (m/ft)	50		50	
	60		60	
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> 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 \_\_\_\_\_  
 Other, specify **Direct Push**

**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	
1.5	PVC	.125	0	5	<input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
1.75	PVC	10	5	15

**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)
0 - 15	3.5

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Strata Soil Sampling Inc.** Well Contractor's Licence No.: **72411**

Business Address (Street Number/Name): **165 Shields Ct.** Municipality: **Markham**

Province: **On** Postal Code: **L3R8V2** Business E-mail Address: **wrecords@stratasoil.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **Heller, Nathan**

Well Technician's Licence No.: **3777** Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: **2016 0629**

**Map of Well Location**

Please provide a map below following instructions on the back.

See Map

MW-4

Comments: \_\_\_\_\_

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 20160616	Date Work Completed 20160616
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**Ministry Use Only**

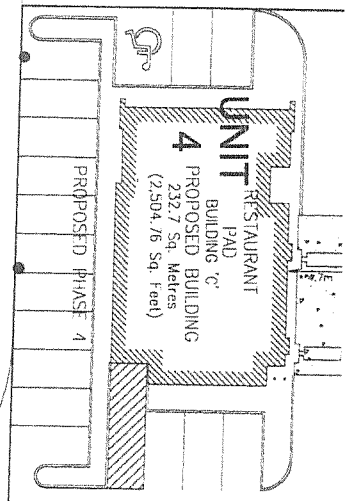
Audit No: **2210010**

Printed: 04 2016

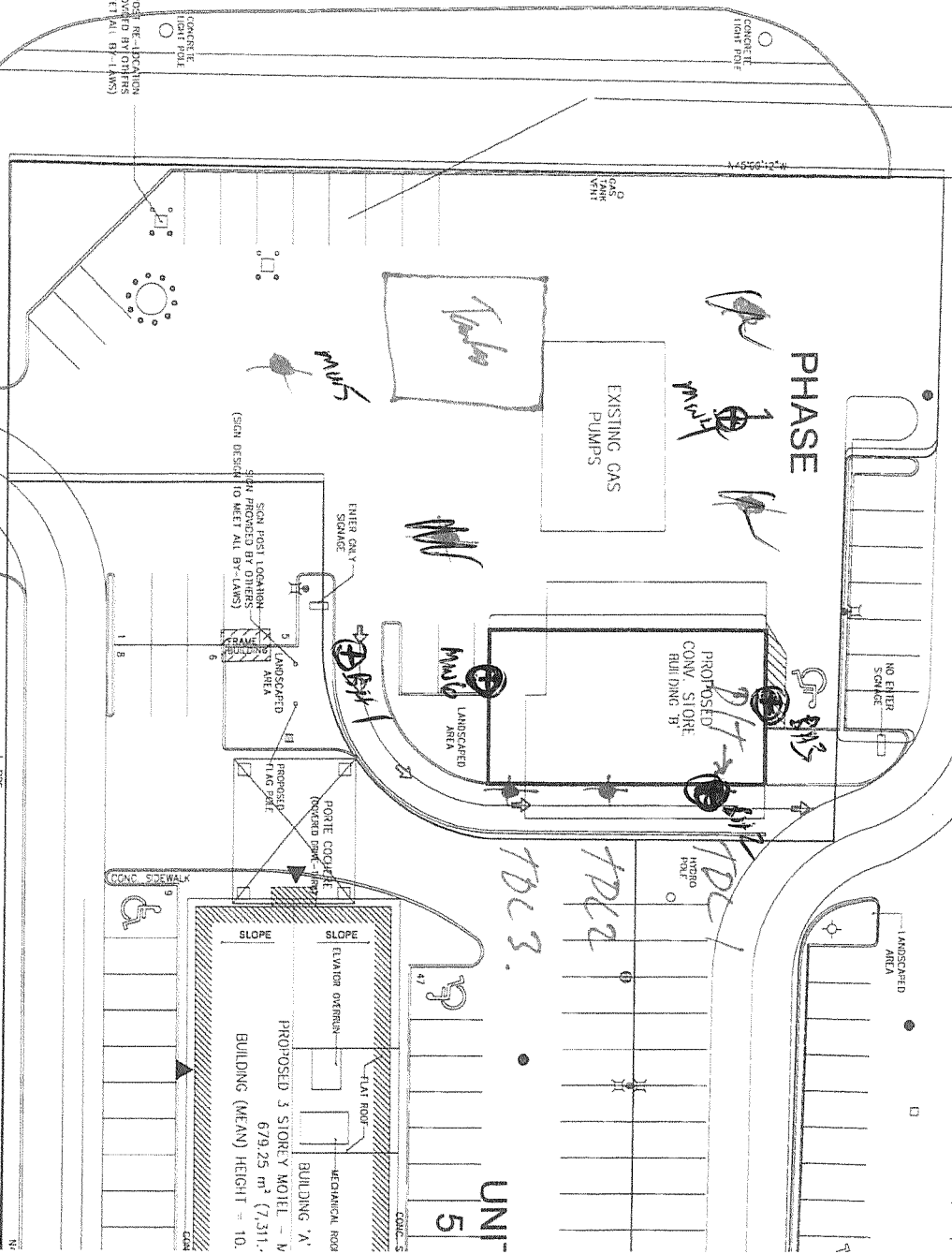
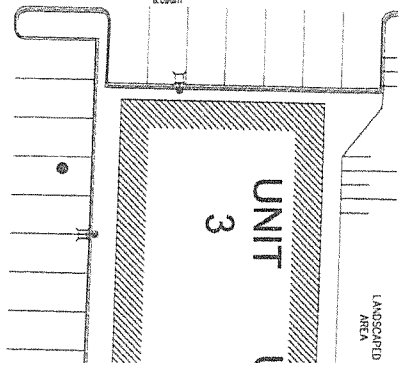
ST. DAVID STREET NORTH  
HIGHWAY No. 6

DIRECTIONAL SIGN POST LOCATION  
SIGN PROVIDED BY OTHERS  
(SIGN DESIGN TO MEET ALL BY-LAWS)

DIRECTIONAL SIGN POST LOCATION  
SIGN PROVIDED BY OTHERS  
(SIGN DESIGN TO MEET ALL BY-LAWS)



PART 2, PLAN 611-10768  
EASEMENT TO PUBLIC UTILITIES  
COMMISSION OF THE CORPORATION  
OF THE TOWN OF FERGUS  
& CDSH



DIRECTIONAL SIGN POST LOCATION  
SIGN PROVIDED BY OTHERS  
(SIGN DESIGN TO MEET ALL BY-LAWS)  
STRA THALLAN STREET

S-18725

BILWEL/Well cover

RMBR DHANAL

810 ST DAVID ST  
NORTH

Fergus N1M 2L2

randi\_21@shaw.com

519 835 6410

0100187  
JUL 04 2016  
MRT



Measurements recorded in:  Metric  Imperial

Well Tag No. A176777

S-18725 Page of

Address of Well Location (Street Number/Name): 810 St. David St. N  
 Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_  
 County/District/Municipality: \_\_\_\_\_ City/Town/Village: Fergus Province: Ontario Postal Code: \_\_\_\_\_  
 UTM Coordinates: Zone Easting Northing: NAD 83 17549248 4840144  
 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
Black	Asphalt		Soft	0	0.5
Brown	Sand	Gravel	Soft	0.5	15

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 to 1	Concrete	
1 to 4	Bentonite	
4 to 15	Silica Sand	

**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 type="checkbox"/> Yes <input type="checkbox"/> No	50		50	
	60		60	

**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 Direct Push  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	
1.5	PVC	0.125	0	5	<input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" 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)	
			From	To
1.75	PVC	10	5	15

**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 _____
0	
15	

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
0 to 15	3.5

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Strata Soil Sampling Inc. Well Contractor's Licence No.: 7241  
 Business Address (Street Number/Name): 165 Shields Ct. Municipality: Markham  
 Province: On Postal Code: L3R8U2 Business E-mail Address: wrecords@stratasoil.com  
 Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Hellyer, Nathan  
 Well Technician's Licence No.: 3729 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: 20160629

**Map of Well Location**

Please provide a map below following instructions on the back.

See Map

MW-5

Comments:

Well owner's information package delivered:  Yes  No

Date Package Delivered: 20160616

Date Work Completed: 20160616

**Ministry Use Only**

Audit No: 2210008

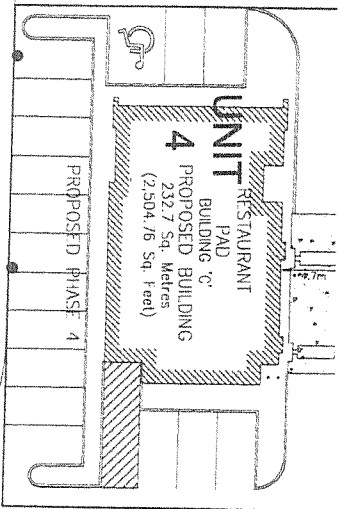
Received: JML 04 2016

ST. DAVID STREET NORTH  
HIGHWAY No. 6

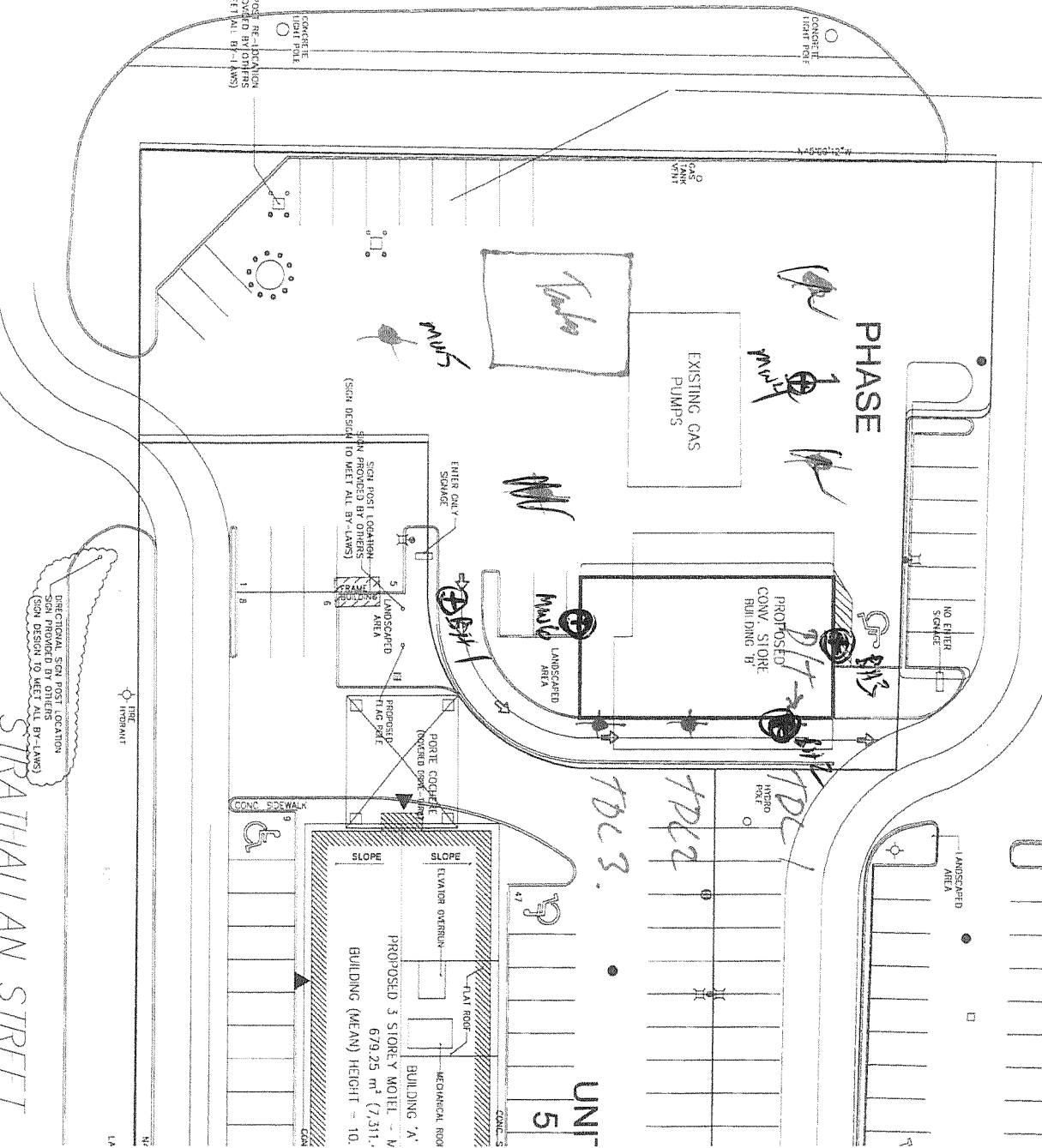
DIRECTIONAL SIGN POST LOCATION  
(SIGN DESIGN TO MEET ALL BY-LAWS)

6

DIRECTIONAL SIGN POST LOCATION  
(SIGN DESIGN TO MEET ALL BY-LAWS)



PART 2, PLAN 61r-10768  
EASEMENT TO PUBLIC UTILITIES  
COMMISSION OF THE CORPORATION  
OF THE TOWN OF FERGUS  
6.028m



DIRECTIONAL SIGN POST LOCATION  
(SIGN DESIGN TO MEET ALL BY-LAWS)

STRAITHALLAN STREET

S-18725

BILLY/WELL OVER

RANBIE DHANAL

810 ST DAVIDS  
NORTH

Fergus Area 2L2

randir\_21@shaw.com

519 835 6410

JUL 04 2016  
8000182  
1527-C

Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

Mailing Address (Street Number/Name) 4 Erinville Drive	Municipality Erin	Province Ont	E-mail Address (Carguest Auto Parts)	<input type="checkbox"/> Well Constructed by Well Owner
---	----------------------	-----------------	---	---

**Well Location**

Address of Well Location (Street Number/Name) 75 Sideroad 18	Township Center Wellington	Lot	Concession
County/District/Municipality Center Wellington	City/Town/Village Fergus	Province Ontario	Postal Code
UTM Coordinates NAD 83 0810235704342500	Zone Easting West Northing	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
	"Well Decommission"				
36" dia bored well 13' deep - pumped 1 volume of water from the well, chlorinated the well, removed concrete, placed bentonite seal, backfill with fill material to grade.					

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To	
	bentonite seal	

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 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 checked="" 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)		
			From	To	
36"	concrete	3"	0	13	<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 unused.

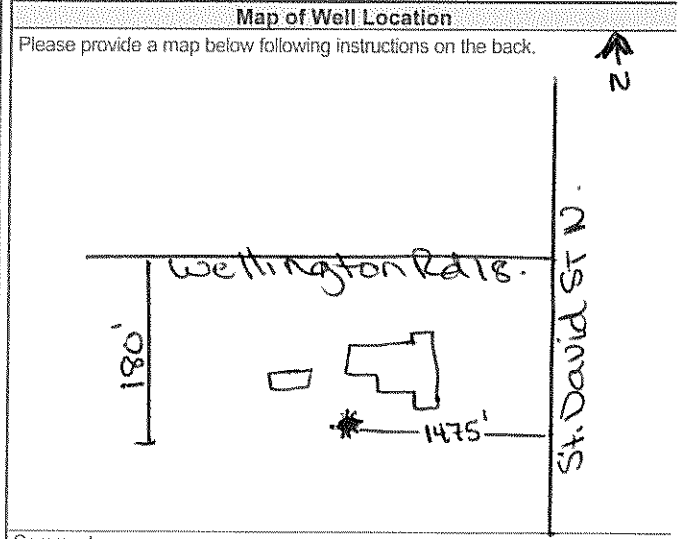
Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
S.D. Smith Drilling Co. Ltd.	4868		
Business Address (Street Number/Name)	Municipality		
P.O. Box 787	ERIN		
Province	Postal Code	Business E-mail Address	
Ont	N0B1T0		

Well Contractor and Well Technician Information			
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
519 853 3717	Smith, Simon		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
T346		20160609	

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				
Final water level end of pumping (m/ft)				
10		10		
If flowing give rate (l/min / GPM)				
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		
50		50		
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
60		60		



Comments: Well Decommissioning		
Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 20160609 Date Work Completed 20160603	<b>Ministry Use Only</b> Audit No: 2216893 Received: AUG 10 2016



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Municipal Plan and Sublot Number

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten entries like 'ABANDONMENT RECORD', '36" BORED WELL', 'WASHED GRAVEL BENTONITE', 'CLAY FILL & BENTONITE', 'TILES REMOVED'.

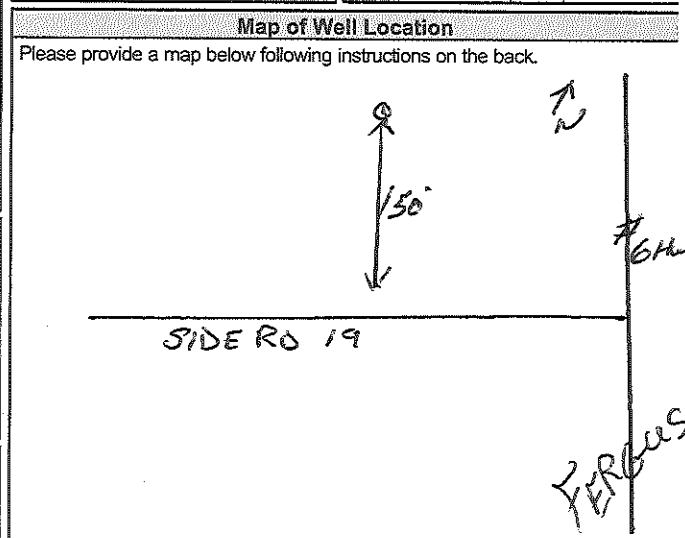
Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); Pumping rate; Duration of pumping; Final water level end of pumping; Recommended pump depth; Recommended pump rate; Well production; Disinfected?

Method of Construction and Well Use checkboxes including Cable Tool, Rotary, Boring, Air percussion, Public, Commercial, Domestic, etc.

Construction Record - Casing and Status of Well table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well (Water Supply, Replacement Well, etc.)

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth



Water Details and Hole Diameter table with columns: Water found at Depth, Kind of Water, Hole Diameter (Depth, Diameter)

Well Contractor and Well Technician Information form including Business Name, Licence No., Address, Telephone No., Name of Well Technician, Signature, Date Submitted

Ministry Use Only section including Audit No. (239262), Date Package Delivered, Date Work Completed, Received date (SEP 08 2016)



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name: \_\_\_\_\_ Last Name / Organization: **WRIGHTHAUEN HOMES** E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): **11 SPENCER DR.** Municipality: **FLORA** Province: **ON** Postal Code: **N0B1S0** Telephone No. (inc. area code): **5198296199**

**Well Location**

Address of Well Location (Street Number/Name): **14 SIDE RD 19** Township: **NICHOL** Lot: **18** Concession: **15**

County/District/Municipality: **WELLINGTON** City/Town/Village: **FERGUS** Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates Zone: **83** Easting: **17548932** Northing: **4840297** 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	Depth (m/ft) To
		<b>ABANDONMENT RECORD</b>			
			<b>5" DRILLED</b>	<b>0</b>	<b>320</b>
			<b>WASHED GRAVEL</b>	<b>320</b>	<b>300</b>
			<b>BENTONITE</b>	<b>300</b>	<b>5</b>
			<b>CASING CUT &amp; BACK FILLED</b>	<b>5</b>	<b>0</b>

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) 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: _____	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
Pump intake set at (m/ft)				
Pumping rate (l/min / GPM)				
Duration of pumping _____ hrs + _____ min				
Final water level end of pumping (m/ft)	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
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				
60		60		

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input 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**

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	
					<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 checked="" type="checkbox"/> Abandoned, other, specify <b>NOT USED</b> <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, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <b>NOT USED</b> <input type="checkbox"/> Other, specify _____

**Water Details**

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

**Well Contractor and Well Technician Information**

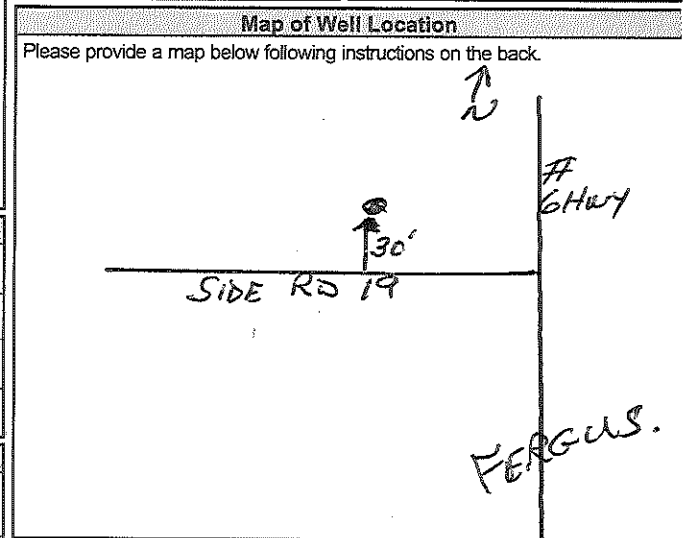
Business Name of Well Contractor: **TIM WILSON WELL DRILLING LTD** Well Contractor's Licence No.: **7385**

Business Address (Street Number/Name): **551 EBYCREST RD.** Municipality: **WATERLOO**

Province: **ON** Postal Code: **N2T4G8** Business E-mail Address: \_\_\_\_\_

us. Telephone No. (inc. area code): **5196482412** Name of Well Technician (Last Name, First Name): **WILSON TIM**

Well Technician's Licence No.: **1924** Signature of Technician and/or Contractor: *Tim Wilson* Date Submitted: **20160831**



Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: **20160824**

Date Work Completed: \_\_\_\_\_

**Ministry Use Only**

Audit No.: **2239261**

**SEP 08 2016**

Received: \_\_\_\_\_



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

Well Owner's Information

First Name, Last Name / Organization (FERGUS (ST. DAVID) DEVELOPMENTS INC.), E-mail Address, Mailing Address (1500 WOODBINE AVENUE, SUITE 30053), Municipality (TORONTO), Province (ONT.), Postal Code (M4L 5Y1), Telephone No. (416 895 3495)

Well Location

Address of Well Location (875 ST. DAVID ST. N.), Township (CENTRE WELLINGTON), Lot (PT. LOT 103), County/District/Municipality (WELLINGTON), City/Town/Village (FERGUS), Province (Ontario), Postal Code (N1M2M3), UTM Coordinates (NAD 83 175490094840198), Municipal Plan and Sublot Number (Pt. Lot 1 on 61R-11688 (PLAN 71))

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten entries: NATIVE SOIL (0-5), BEDONITE (5-95).

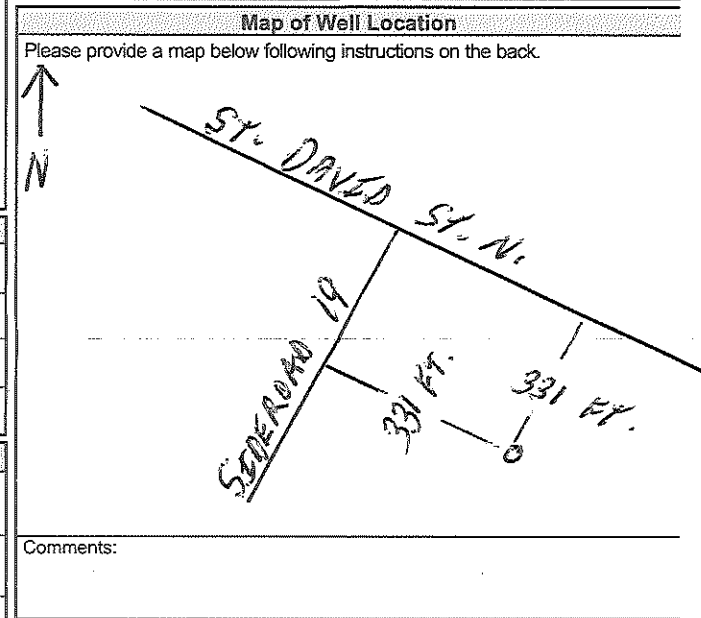
Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³).

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate, duration, and final water level.

Method of Construction and Well Use checkboxes. Includes options like Cable Tool, Rotary, Boring, and Well Use categories like Public, Commercial, Domestic, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To. Includes Status of Well checkboxes.

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To. Includes Status of Well checkboxes.



Water Details and Hole Diameter table. Includes columns for Water found at Depth, Kind of Water, and Hole Diameter (Depth, Diameter).

Well Contractor and Well Technician Information. Includes Business Name (MARTIN'S WATER SYSTEMS LTD.), Business Address (3090 BRICKER SCHOOL LANE), Well Contractor's Licence No. (6231), and Technician Name (MARTIN LESTER).

Ministry Use Only section. Includes Audit No. (2250086), Date Work Completed (2019/11/22), and Received date (DEC 6 4 2017).



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address (Street Number/Name), Municipality, Province, Postal Code, Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name), Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Method of Construction and Well Use checkboxes: Cable Tool, Rotary (Conventional/Reverse), Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Domestic, Livestock, Irrigation, Industrial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring, Other, specify

Construction Record - Casing table with columns: inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter tables with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No. (inc. area code), Name of Well Technician (Last Name, First Name), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at (m/ft), Pumping rate (l/min / GPM), Duration of pumping, 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?

Map of Well Location: Please provide a map below following instructions on the back. Includes a hand-drawn map showing St. David St. N., Sidewalk 19, and distances of 331 FT.

Address of Well Location (Street Number/Name) 127 sd rd 18		Township Centre Wellington P+R+K	Lot	Concession
County/District/Municipality Wellington		City/Town/Village Fergus	Province Ontario	Postal Code N1M 2G3
UTM Coordinates Zone NAD 83	Easting 1751482179	Northing 8401119	Municipal Plan and Sublot Number Plan 87	

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	sand	clay	soft	0	18
Brown	Clay	sand, stones	soft	18	80
Brown	Shale	limestone	soft layered	80	84
Brown	lime stone		Hard	84	215

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To	
0	84	Bentonite slurry
		7.45ft <sup>3</sup>

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	75		90
Pump intake set at (m/ft)		1	76	1	80
Pumping rate (l/min / GPM)		2	77	2	75
Duration of pumping		3	78	3	75
Final water level end of pumping (m/ft)		4	79	4	75
If flowing give rate (l/min / GPM)		5	80	5	75
Recommended pump depth (m/ft)		10	83	10	75
Recommended pump rate (l/min / GPM)		15	85	15	75
Well production (l/min / GPM)		20	87	20	75
Disinfected?		25	89	25	75
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		30	90	30	75
		40	90	40	75
		50	90	50	75
		60	90	60	75

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<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	1.88	12	84	
5"	Plastic		87	120	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	From	To
180		0	84
205		84	215

Well Contractor and Well Technician Information	
Business Name of Well Contractor Martin Well Drilling Inc.	Well Contractor's Licence No. 71517
Business Address (Street Number/Name) Box 60 Alma	Municipality Wellington
Province Ontario	Postal Code N0B 1A0
Business E-mail Address	

Bus. Telephone No. (inc. area code) 519 846 9160	Name of Well Technician (Last Name, First Name) Martin Mike
Well Technician's Licence No. 314130	Signature of Technician and/or Contractor [Signature]
	Date Submitted 2017/12/27

**Map of Well Location**

Please provide a map below following instructions on the back.

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 20171227	Date Work Completed 20171227
Ministry Use Only		Received
Audit No. 2252834		JAN 19 2018



Well Tag No. (Place Sticker and/or Print Below)

Measurements recorded in:  Metric  Imperial

HANDY MAN SERVICES

Address of Well Location (Street Number/Name): 67 Victoria Cres.  
 Township: Centre Wellington Lot: 19 Concession: 12/9  
 County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: N1M2K3  
 UTM Coordinates Zone: 18 Easting: 17548920 Northing: 4840116 Municipal Plan and Sublot Number: Plan 72 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	Depth (m/ft) To
			Extend well - head of 30"		
			galvanized dug well	-1	+2
			well depth 15"		

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	1	Bentonite chips	4.75ft³

Results of Well Yield Testing

After test of well yield, water was: <input checked="" 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	8		
	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:  Boring,  Air percussion,  Other, specify

Well Use:  Domestic,  Commercial,  Not used,  Municipal,  Dewatering,  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	
30"	Galvanized		-1	15	<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
36	cement	3"	-1	+2	

Construction Record - Screen

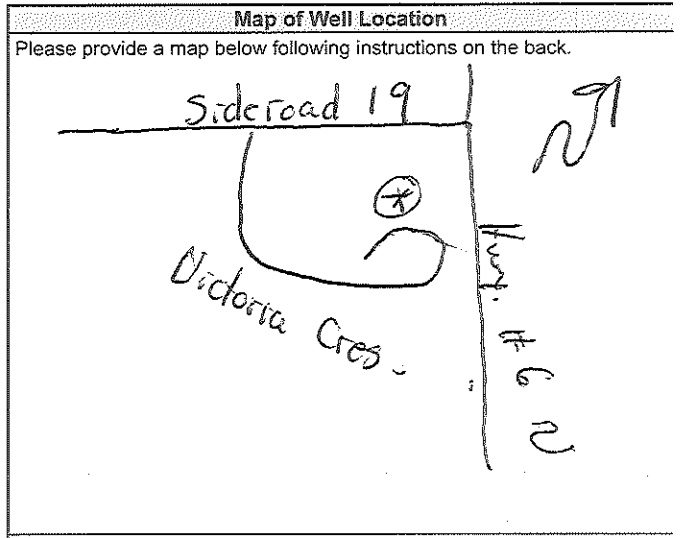
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

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) From	Hole Diameter Depth (m/ft) To	Hole Diameter Diameter (cm/in)

Well Contractor and Well Technician Information

Business Name of Well Contractor: Martin well Drilling Inc. Well Contractor's Licence No.: 7557  
 Business Address (Street Number/Name): Box 60 Ama Municipality: Wellington  
 Province: Ontario Postal Code: N0B1A0 Business E-mail Address:



Well owner's information package delivered:  Yes  No

Date Package Delivered: 20180319

Date Work Completed: 20180319

Ministry Use Only: Audit No. 2252817, MAY 11 2018

Well Contractor's Licence No.: 34310 Signature of Technician and/or Contractor: Mike Martin Date Submitted: 20180319

Measurements recorded in:  Metric  Imperial

Page 1 of 1

**Well Owner's Information**

Address of Well Location (Street Number/Name): 127 Sideroad 18  
 Township: Centre Wellington Lot: 9 Concession: 87  
 County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: N1M2X7  
 UTM Coordinates Zone Easting Northing: 8 3 17548231 4840115 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
			Decommission dug well according to Reg 903	0 13
			Well diameter 36"	
5 0	sand			35.35ft <sup>3</sup>

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
14 13	sand	7.05ft <sup>3</sup>
13 12	bentonite chips	7.05ft <sup>3</sup>
12 7	sand	35.35ft <sup>3</sup>
7 5	bentonite chips	14.10ft <sup>3</sup>

**Method of Construction**

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

**Well Use**

Public  Domestic  Livestock  Irrigation  Industrial  Other, specify \_\_\_\_\_

Commercial  Municipal  Test Hole  Cooling & Air Conditioning  Not used  Dewatering  Monitoring

**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	
				<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 _____

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)
			From To

**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) From To Diameter (cm/in)
14 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	36"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Martin Well Drilling Inc. Well Contractor's Licence No.: 7557  
 Business Address (Street Number/Name): Box 60 Alma Municipality: Wellington  
 Province: Ontario Postal Code: N0B1A0 Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): 5198469162 Name of Well Technician (Last Name, First Name): Martin Mike  
 Well Technician's Licence No.: 3430 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20170627

**Results of Well Yield Testing**

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

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): \_\_\_\_\_

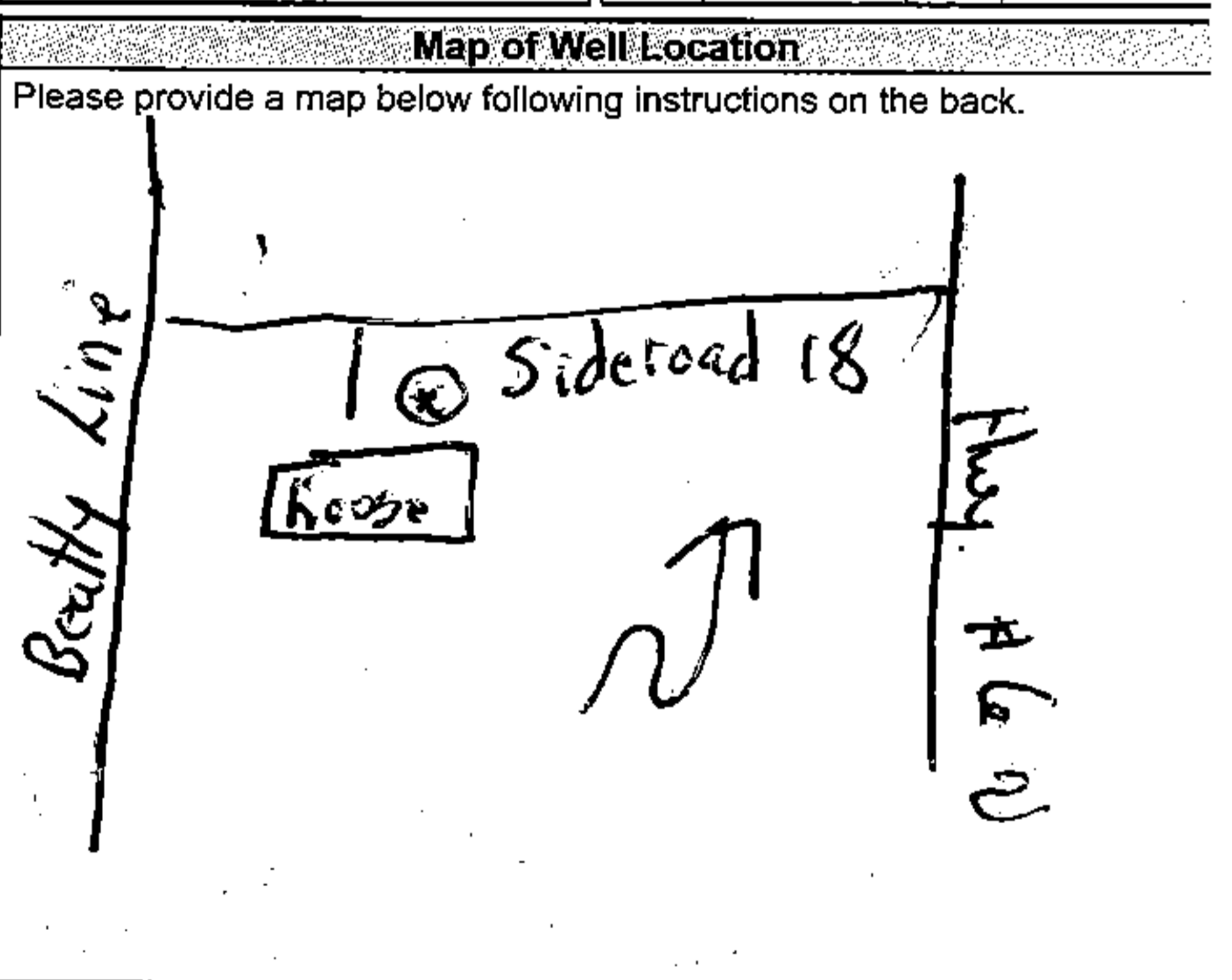
If flowing give rate (l/min / GPM): \_\_\_\_\_

Recommended pump depth (m/ft): \_\_\_\_\_

Recommended pump rate (l/min / GPM): \_\_\_\_\_

Well production (l/min / GPM): \_\_\_\_\_

Disinfected?  Yes  No



Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: 20170627

Date Work Completed: 20170627

**Ministry Use Only**

Audit No.: 2252796

OCT 01 2016

Received: \_\_\_\_\_



Well Tag No. (Place Sticker and/or Print Below)
A264318

Measurements recorded in: Metric Imperial

WRIGHT HAVEN HOMES LIMITED

Address of Well Location (Street Number/Name)
Township
Lot
Concession
County/District/Municipality
City/Town/Village
Province
Postal Code
UTM Coordinates Zone Easting Northing
Municipal Plan and Sublot Number
Other

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space
Table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Method of Construction
Well Use
List of construction methods and well uses with checkboxes.

Construction Record - Casing
Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

Construction Record - Screen
Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To

Water Details
Hole Diameter
Table with columns: Water found at Depth, Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information
LONDON SOIL TEST LTD.
712078 Southgate Sdrd. 71
Dundalk, ON N0C 1B0
519-455-5777 info@londonsoil.com

Results of Well Yield Testing
Table with columns: Time (min), Water Level (m/ft), Recovery (m/ft)

Map of Well Location
Please provide a map below following instructions on the back.

Well Technician's Licence No.
Signature of Technician and/or Contractor
Date Submitted

Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No. 2305972
APR 01 2019

112 side road 19 Fergus

A264318 z305972

Legend

- 📍 112 Side Rd 19
- 📍 Stick up well

Stick up well A264317

A264318 stick up well

112 Side Rd 19

Stick up well A264316

19

Google Earth

© 2018 Google  
Image © 2019 DigitalGlobe

200 ft







Well Tag No. (Place Sticker and/or Print Below)
A264316

Measurements recorded in: Metric Imperial

COLLINGWOOD INDUSTRIAL PROPERTIES INC

Address of Well Location (Street Number/Name)
Township
Lot
Concession
County/District/Municipality
City/Town/Village
Province
Postal Code
UTM Coordinates Zone Easting Northing
Municipal Plan and Sublot Number
Other

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m) From, To

Annular Space
Table with columns: Depth Set at (m) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing
Table with columns: Time (min), Water Level (m) Static Level, Draw Down (min), Water Level (m) Recovery, Time (min), Water Level (m) Recovery

Method of Construction
Well Use
List of construction methods and well uses with checkboxes.

Construction Record - Casing
Table with columns: Inside Diameter (cm), Open Hole OR Material, Wall Thickness (cm), Depth (m) From, To, Status of Well

Construction Record - Screen
Table with columns: Outside Diameter (cm), Material, Slot No., Depth (m) From, To

Water Details
Hole Diameter
Table with columns: Water found at Depth (m), Kind of Water, Depth (m) From, To, Diameter (cm)

Well Contractor and Well Technician Information
LONDON SOIL TEST LTD.
712078 Southgate Sdrd. 71
Dundalk, ON N0C 1B0
519-455-5777 info@londonsoil.com

Map of Well Location
Please provide a map below following instructions on the back.
Comments: SEE ATTACHED MAP
STEEL STICK OF CASING

Well Technician's Licence No.
Signature of Technician and/or Contractor
Date Submitted

Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No. 2305973
APR 01 2019

112 side road 19 Fergus

A264316 z365973

Legend

- 📍 112 Side Rd 19
- 📍 Stick up well

Stick up well A264317

A264318 stick up well

112 Side Rd 19

Stick up well A264316

19

Google Earth

© 2018 Google  
Image © 2019 DigitalGlobe

200 ft



## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 7330873  
 Well Audit Number: Z305974  
 Well Tag Number: A264317

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

### Well Location

<b>Address of Well Location</b>	112 SIDE RD 19
<b>Township</b>	NICHOL TOWNSHIP
<b>Lot</b>	019
<b>Concession</b>	CON 15
<b>County/District/Municipality</b>	WELLINGTON
<b>City/Town/Village</b>	FERGUS
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 548464.00 Northing: 4839857.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL		0 ft	15 ft
BRWN	SAND	SILT	WBRG	15 ft	20 ft

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
14 ft	0 ft	HYDRATED BENTONITE	
20 ft	10 ft	SILICA SAND	

### Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
AUGER	Monitoring

### Status of Well

Observation Wells

**Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
2 Inch	PLASTIC	15 ft	-3 ft

**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To
2 inch	PLASTIC	20 ft	15 ft

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 7190

**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?	N

**Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	15 ft		
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
15 ft	

**Hole Diameter**

Depth From	Depth To	Diameter
0 ft	20 ft	8 Inch

**Audit Number:** Z305974

**Date Well Completed:** February 14, 2019

**Date Well Record Received by MOE:** April 01, 2019

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 7338945  
Well Audit Number: Z311965

Well Tag Number:

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

### Well Location

Address of Well Location	875 ST DAVID ST N
Township	NICHOL TOWNSHIP
Lot	
Concession	
County/District/Municipality	WELLINGTON
City/Town/Village	FERGUS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 548906.00 Northing: 4840224.00
Municipal Plan and Sublot Number	
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	3.1 m	BENTONITE 3/8 HOLEPLUG	

### Method of Construction & Well Use

Method of Construction	Well Use

### Status of Well

Abandoned-Other

### Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To


**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 7320

**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
3.1 m	Untested

**Hole Diameter**

Depth From	Depth To	Diameter
0 m	1.8 m	21 cm

**Audit Number:** Z311965

**Date Well Completed:** June 10, 2019

**Date Well Record Received by MOE:** August 01, 2019

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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





Measurements recorded in:  Metric  Imperial

No Tag Found.

Well Owner's Information

First Name: FERGIUS (St. David) DAVILAKAMOUS INC. Last Name / Organization: DAVILAKAMOUS INC. E-mail Address: ATTN: NICK FRANGIKOS. Mailing Address: 1500 WOODBINE AVE SUITE 30255. Municipality: TORONTO. Province: ONT. Postal Code: M4L 5R0. Telephone No.: (inc. area code)

Well Location

Address of Well Location: 875 St David St N. Township: - Lot: - Concession: -. County/District/Municipality: - City/Town/Village: Fergus. Province: Ontario. Postal Code: - UTM Coordinates: Zone: NAD 83 Easting: 17548906 Northing: 4840224. Municipal Plan and Sublot Number: - Other: -

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Row 1: well Abandonment. Row 2: Bentonite 3/8 Heleply, Bentonite 3/8 Heleply, 0, 6.1

Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³)

Results of Well Yield Testing table with columns: After test of well yield, water was; Draw Down (Time (min), Water Level (m/ft)); Recovery (Time (min), Water Level (m/ft)). Includes pumping rate, duration, and final water level.

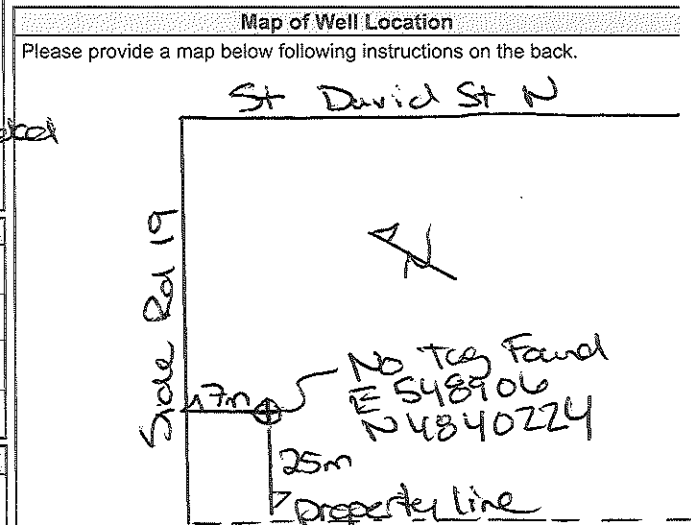
Method of Construction and Well Use checkboxes. Method of Construction includes Cable Tool, Rotary, Boring, etc. Well Use includes Public, Commercial, Municipal, etc.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To; Status of Well (Water Supply, Replacement Well, etc.)

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To; Status of Well (Abandoned, Insufficient Supply, etc.)

Water Details and Hole Diameter tables. Water Details: Water found at Depth 4.5 m, Kind of Water: Gas. Hole Diameter: Depth 0 to 1.8 m, Diameter 21cm.

Well Contractor and Well Technician Information. Business Name: Direct Environmental Dredging Inc. Well Contractor's Licence No.: 7320. Business Address: 37 Shaw Valley Dr. Municipality: St Thomas. Well Technician: Armstrong Anthony. Signature and Date Submitted: 20190617.



Comments: All MW Filled with 3/8 Heleply to 6.1m over drilled to 1.8m 3/8 Heleply Filled with 3/8 Heleply. Ministry Use Only: Audit No. 3311961, AUG 01 2019. Well owner's information package delivered: Yes. Date Package Delivered: 20190610. Date Work Completed: 20190610.

## Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or [wellshelpdesk@ontario.ca](mailto:wellshelpdesk@ontario.ca).

Fields marked with an asterisk (\*) are mandatory.

Well Tag Number \*

A279200

### Type \*

Construction  Abandonment

### Measurement recorded in: \*

Metric  Imperial

## 1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. \*

Last Name

First Name

Organization

IMPERIAL OIL

Email Address

### Current Address

Unit Number

Street Number \*

Street Name \*

City/Town/Village

Country

CANADA

Province

ALBERTA

Postal Code

Telephone Number

## 2. Well Location

### Address of Well Location

Unit Number

Street Number \*

Street Name \*

Township

930

ST. DAVID STREET

Lot

Concession

County/District/Municipality

WELLINGTON

City/Town

FERGUS

Province

Ontario

Postal Code

UTM Coordinates

Zone \*

Easting \*

Northing \*

Municipal Plan and Sublot Number

NAD 83

17

548959

4840432

[Test UTM in Map](#)

Other

MW 19-01

## 3. Overburden and Bedrock Material \*

Well Depth \*

3.9

(m)

General Colour	Most Common Material	Other Materials	General Description	Depth From (m)	Depth To (m)
Grey	Silt	Clay	Dense	0	3.9

#### 4. Annular Space \*

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	0.3	CONCRETE	0.01
0.3	0.6	BENTONITE	0.01

#### 5. Method of Construction \*

- Cable Tool     Rotary (Conventional)     Rotary (Reverse)     Boring     Air percussion     Diamond  
 Jetting     Driving     Digging     Rotary (Air)     Augering     Direct Push  
 Other (specify) \_\_\_\_\_

#### 6. Well Use \*

- Public     Industrial     Cooling & Air Conditioning  
 Domestic     Commercial     Not Used  
 Livestock     Municipal     Monitoring  
 Irrigation     Test Hole     Dewatering  
 Other (specify) \_\_\_\_\_

#### 7. Status of Well \*

- Water Supply     Replacement Well     Test Hole  
 Recharge Well     Dewatering Well     Observation and/or Monitoring Hole  
 Alteration (Construction)     Abandoned, Insufficient Supply     Abandoned, Poor Water Quality  
 Abandoned, other (specify) \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

#### 8. Construction Record - Casing \* (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5.1	Plastic	0.65	0.1	0.9

#### 9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.4	Plastic	10	0.9	3.9

#### 10. Water Details

Water found at Depth 1.5 (m)  Gas    Kind of Water  Fresh     Untested     Other (specify)

#### 11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0	3.9	21

## 12. Results of Well Yield Testing

Pumping Discontinued  
 Explain \_\_\_\_\_

If flowing give rate  
 Flowing \_\_\_\_\_ (L/min)

Draw down \*

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery \*

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

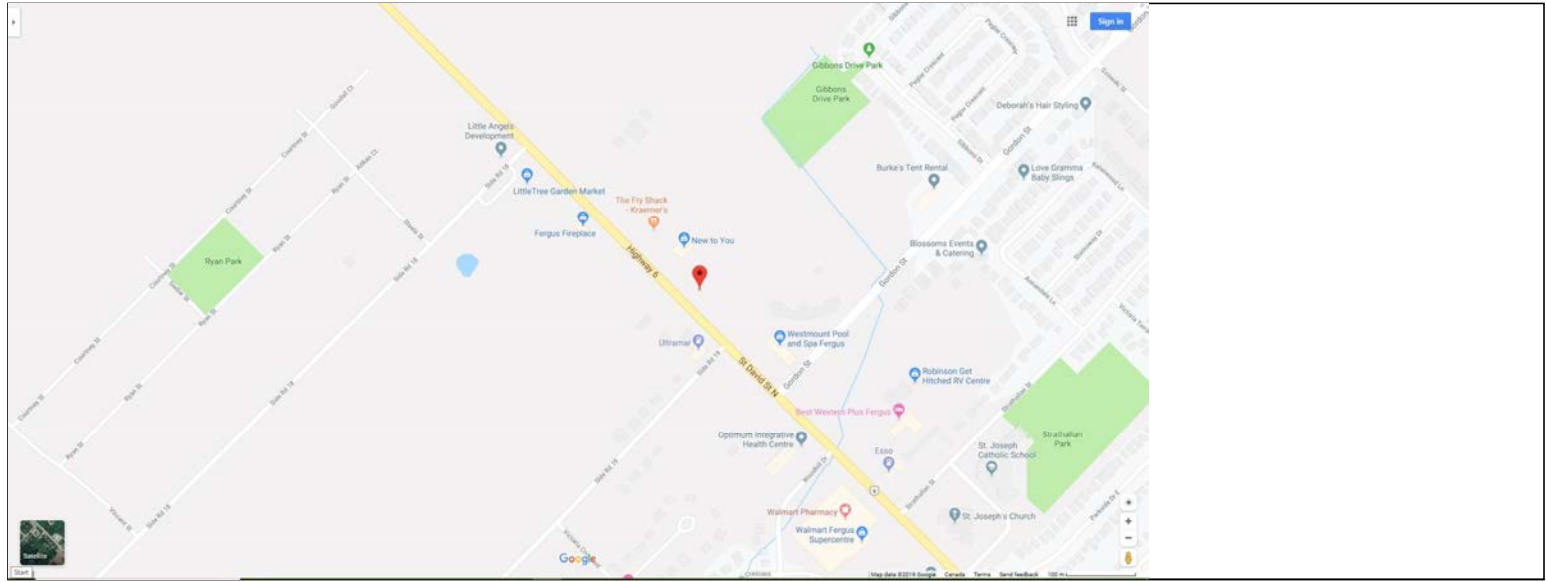
After test of well yield, water was  
 Clear and sand free  Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------------------	-------------------------	----------------------------------	---	---

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)
-------------------------------	----------------------------------	----------------------------

## 13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.  Make map area bigger



## 14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) * 2019/09/19
--	-------------------------------------	--

Comments

### 15. Well Contractor and Well Technician Information

Business Name of Well Contractor * Geo-Environmental Drilling Inc.	Well Contractor's License Number * 6607
---	--

#### Business Address

Unit Number	Street Number	Street Name *
	1	Mansewood Court

City/Town/Village * Halton Hills	Province Ontario	Postal Code * L7J 0A1
-------------------------------------	---------------------	--------------------------

Business Telephone Number 905-876-3388	Business Email Address dgunn@geo-environmentaldrilling.com
---	---

Last Name of Well Technician * BLUHM	First Name of Well Technician * MATT	Well Technician's License Number * 3748
---	---	--

### 16. Declaration \*

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name BLUHM	First Name MATT	Email Address romana@geo-environmentaldrilling.com
--------------------	--------------------	---

Signature Matt Bluhm	Digitally signed by Matt Bluhm Date: 2019.10.04 10:15:14 -04'00'	Date Submitted (yyyy/mm/dd) 2019/10/04
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### 17. Ministry Use Only

Audit Number 5KYH 9DTK
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## Notice of Collection of Personal Information

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Fields marked with an asterisk (\*) are mandatory.

Well Tag Number \*

A279225

### Type \*

Construction  Abandonment

### Measurement recorded in: \*

Metric  Imperial

## 1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. \*

Last Name

First Name

Organization

IMPERIAL OIL

Email Address

### Current Address

Unit Number

Street Number \*

Street Name \*

City/Town/Village

Country

CANADA

Province

ALBERTA

Postal Code

Telephone Number

## 2. Well Location

### Address of Well Location

Unit Number

Street Number \*

Street Name \*

Township

930

ST. DAVID STREET

Lot

Concession

County/District/Municipality

WELLINGTON

City/Town

FERGUS

Province

Ontario

Postal Code

UTM Coordinates

Zone \*

Easting \*

Northing \*

Municipal Plan and Sublot Number

NAD 83

17

549033

4840377

[Test UTM in Map](#)

Other

MW 19-03

## 3. Overburden and Bedrock Material \*

Well Depth \*

3.3

(m)

General Colour	Most Common Material	Other Materials	General Description	Depth From (m)	Depth To (m)
Brown	Sand	Silt	Soft	0	1.5
Grey	Silt	Sand	Soft	1.5	3.3

**4. Annular Space \***

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	0.3	CONCRETE	0.01
0.3	0.6	BENTONITE	0.01

**5. Method of Construction \***

- Cable Tool     Rotary (Conventional)     Rotary (Reverse)     Boring     Air percussion     Diamond  
 Jetting     Driving     Digging     Rotary (Air)     Augering     Direct Push  
 Other (specify) \_\_\_\_\_

**6. Well Use \***

- Public     Industrial     Cooling & Air Conditioning  
 Domestic     Commercial     Not Used  
 Livestock     Municipal     Monitoring  
 Irrigation     Test Hole     Dewatering  
 Other (specify) \_\_\_\_\_

**7. Status of Well \***

- Water Supply     Replacement Well     Test Hole  
 Recharge Well     Dewatering Well     Observation and/or Monitoring Hole  
 Alteration (Construction)     Abandoned, Insufficient Supply     Abandoned, Poor Water Quality  
 Abandoned, other (specify) \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

**8. Construction Record - Casing \*** (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5.1	Plastic	0.65	0.1	0.9

**9. Construction Record - Screen**

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.4	Plastic	10	0.9	3.3

**10. Water Details**

Water found at Depth (m)  Gas    Kind of Water  Fresh     Untested     Other (specify)

## 11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0	3.3	21

## 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (L/min)

Draw down \*

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery \*

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free  Other (specify)

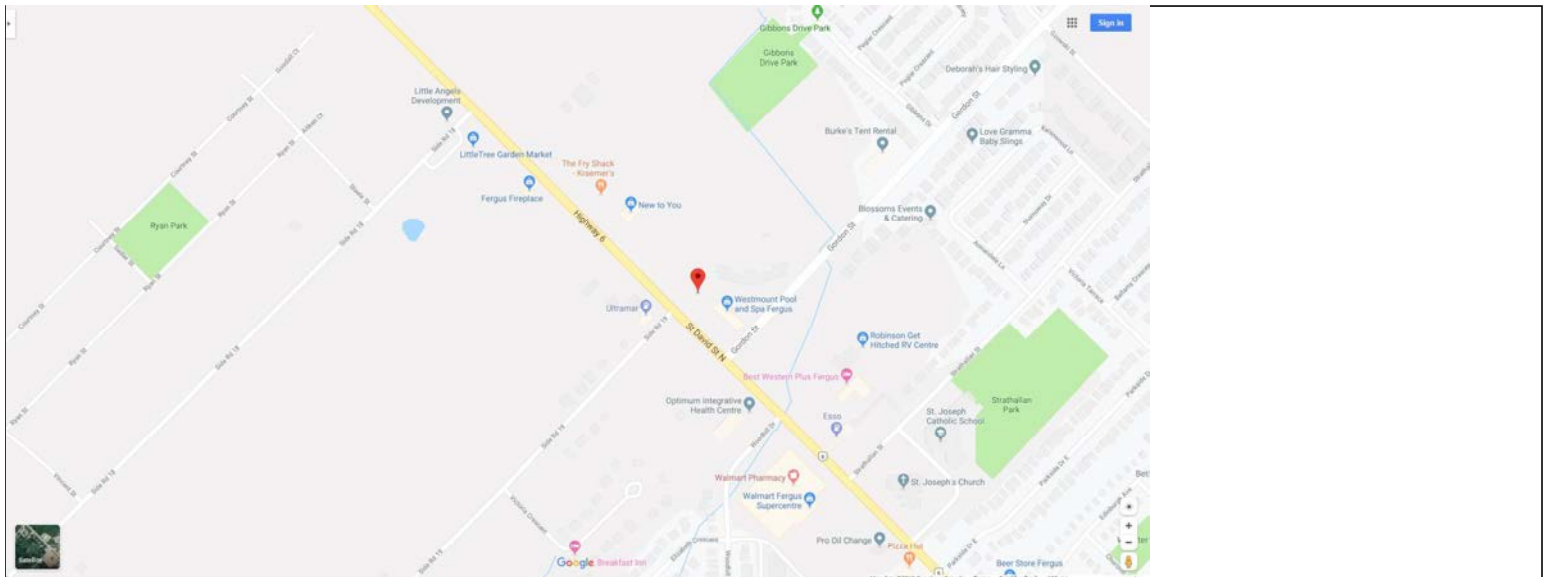
Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)

## 13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.

Make map area bigger





**14. Information**


Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2019/09/18
Comments		

**15. Well Contractor and Well Technician Information**

Business Name of Well Contractor *		Well Contractor's License Number *	
Geo-Environmental Drilling Inc.		6607	
<b>Business Address</b>			
Unit Number	Street Number	Street Name *	
	1	Mansewood Court	
City/Town/Village *		Province	Postal Code *
Halton Hills		Ontario	L7J 0A1
Business Telephone Number	Business Email Address		
905-876-3388	dgunn@geo-environmentaldrilling.com		
Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *	
BLUHM	MATT	3748	

**16. Declaration \***

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLUHM	MATT	romana@geo-environmentaldrilling.com
Signature	Date Submitted (yyyy/mm/dd)	
Matt Bluhm  Digitally signed by Matt Bluhm Date: 2019.10.04 10:04:19 -04'00'	2019/10/04	

**17. Ministry Use Only**

Audit Number  
ARXJ UJAI

## Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or [wellshelpdesk@ontario.ca](mailto:wellshelpdesk@ontario.ca).

Fields marked with an asterisk (\*) are mandatory.

Well Tag Number \*

A279224

### Type \*

Construction  Abandonment

### Measurement recorded in: \*

Metric  Imperial

## 1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. \*

Last Name

First Name

Organization

IMPERIAL OIL

Email Address

### Current Address

Unit Number

Street Number \*

Street Name \*

City/Town/Village

Country

CANADA

Province

ALBERTA

Postal Code

Telephone Number

## 2. Well Location

### Address of Well Location

Unit Number

Street Number \*

Street Name \*

Township

930

ST. DAVID STREET

Lot

Concession

County/District/Municipality

WELLINGTON

City/Town

FERGUS

Province

Ontario

Postal Code

UTM Coordinates

Zone \*

Easting \*

Northing \*

Municipal Plan and Sublot Number

NAD 83

17

549007

4840408

[Test UTM in Map](#)

Other

MW 19-02

## 3. Overburden and Bedrock Material \*

Well Depth \*

3.9

(m)

General Colour	Most Common Material	Other Materials	General Description	Depth From (m)	Depth To (m)
Brown	Sand		Loose	0	2.1
Grey	Silt	Clay	Dense	2.1	3.9

**4. Annular Space \***

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	0.3	CONCRETE	0.01
0.3	0.6	BENTONITE	0.01

**5. Method of Construction \***

- Cable Tool     Rotary (Conventional)     Rotary (Reverse)     Boring     Air percussion     Diamond  
 Jetting     Driving     Digging     Rotary (Air)     Augering     Direct Push  
 Other (specify) \_\_\_\_\_

**6. Well Use \***

- Public     Industrial     Cooling & Air Conditioning  
 Domestic     Commercial     Not Used  
 Livestock     Municipal     Monitoring  
 Irrigation     Test Hole     Dewatering  
 Other (specify) \_\_\_\_\_

**7. Status of Well \***

- Water Supply     Replacement Well     Test Hole  
 Recharge Well     Dewatering Well     Observation and/or Monitoring Hole  
 Alteration (Construction)     Abandoned, Insufficient Supply     Abandoned, Poor Water Quality  
 Abandoned, other (specify) \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

**8. Construction Record - Casing \*** (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5.1	Plastic	0.65	0.1	0.9

**9. Construction Record - Screen**

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.4	Plastic	10	0.9	3.9

**10. Water Details**

Water found at Depth 1.5 (m)  Gas    Kind of Water  Fresh     Untested     Other (specify)

## 11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0	3.9	21

## 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (L/min)

Draw down \*

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery \*

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free  Other (specify)

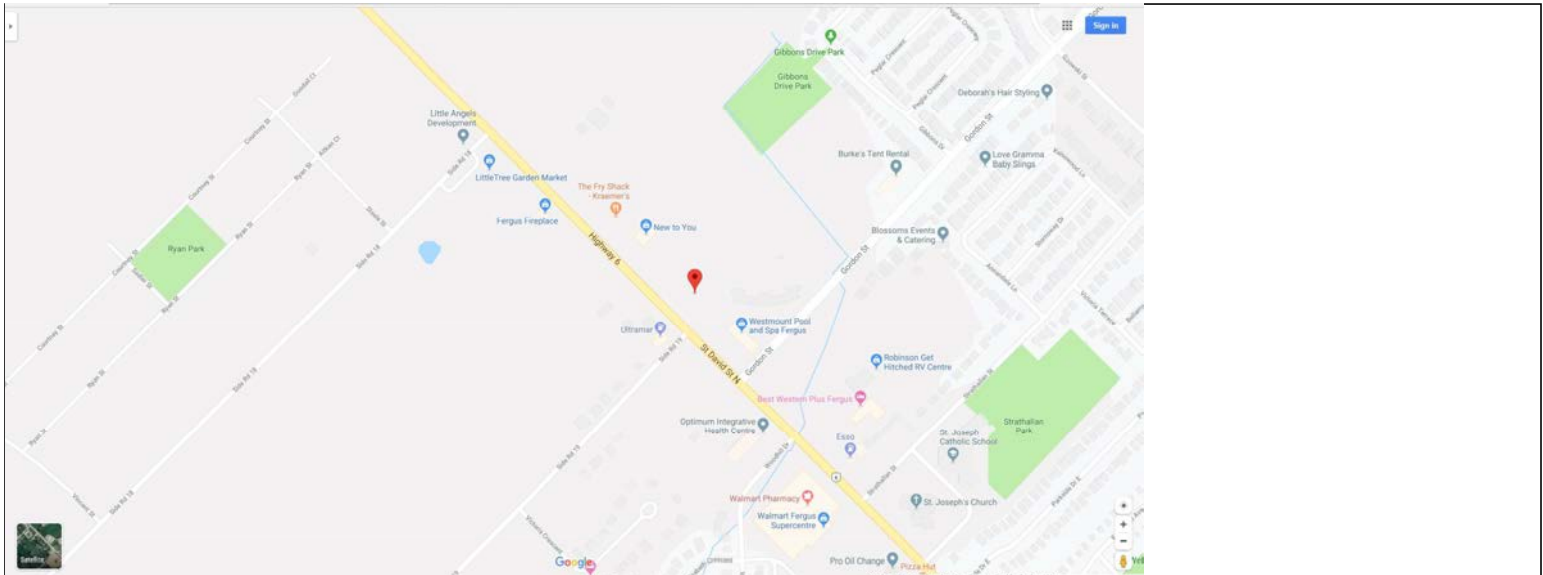
Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)

## 13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.

Make map area bigger



**14. Information**


Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2019/09/19
Comments		

**15. Well Contractor and Well Technician Information**

Business Name of Well Contractor *		Well Contractor's License Number *	
Geo-Environmental Drilling Inc.		6607	
<b>Business Address</b>			
Unit Number	Street Number	Street Name *	
	1	Mansewood Court	
City/Town/Village *		Province	Postal Code *
Halton Hills		Ontario	L7J 0A1
Business Telephone Number	Business Email Address		
905-876-3388	dgunn@geo-environmentaldrilling.com		
Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *	
BLUHM	MATT	3748	

**16. Declaration \***

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLUHM	MATT	romana@geo-environmentaldrilling.com
Signature	Date Submitted (yyyy/mm/dd)	
Matt Bluhm  Digitally signed by Matt Bluhm Date: 2019.10.04 11:10:14 -04'00'	2019/10/04	

**17. Ministry Use Only**

Audit Number  
WPLI 7CAI



Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name) **66 Sideroad 18** Township **Centre Wellington** Lot **18** Concession **15**

County/District/Municipality **Wellington** City/Town/Village **Fergus** Province **Ontario** Postal Code **N1M5Z6**

UTM Coordinates Zone **18** Easting **831754** Northing **841114840396** Municipal Plan and Sublot Number **Other 263**

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
			Decommission dug well according to Reg 903	0 17
			Well diameter 36"	
			Top 2 tiles removed.	
8 0	sand	56.56.		

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
18 17	sand.	7.07
17 15	bentonite chips	14.14
15 10	sand.	35.35
10 8	bentonite chips	14.14

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	13		
	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	
	25		25	
Recommended pump depth (m/ft)	30		30	
Recommended pump rate (l/min / GPM)	40		40	
Well production (l/min / GPM)	50		50	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

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 type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Livestock <input type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <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 type="checkbox"/> Abandoned, Insufficient Supply <input checked="" type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From To	
N/A				

Construction Record - Screen			
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) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From To	

**Well Contractor and Well Technician Information**

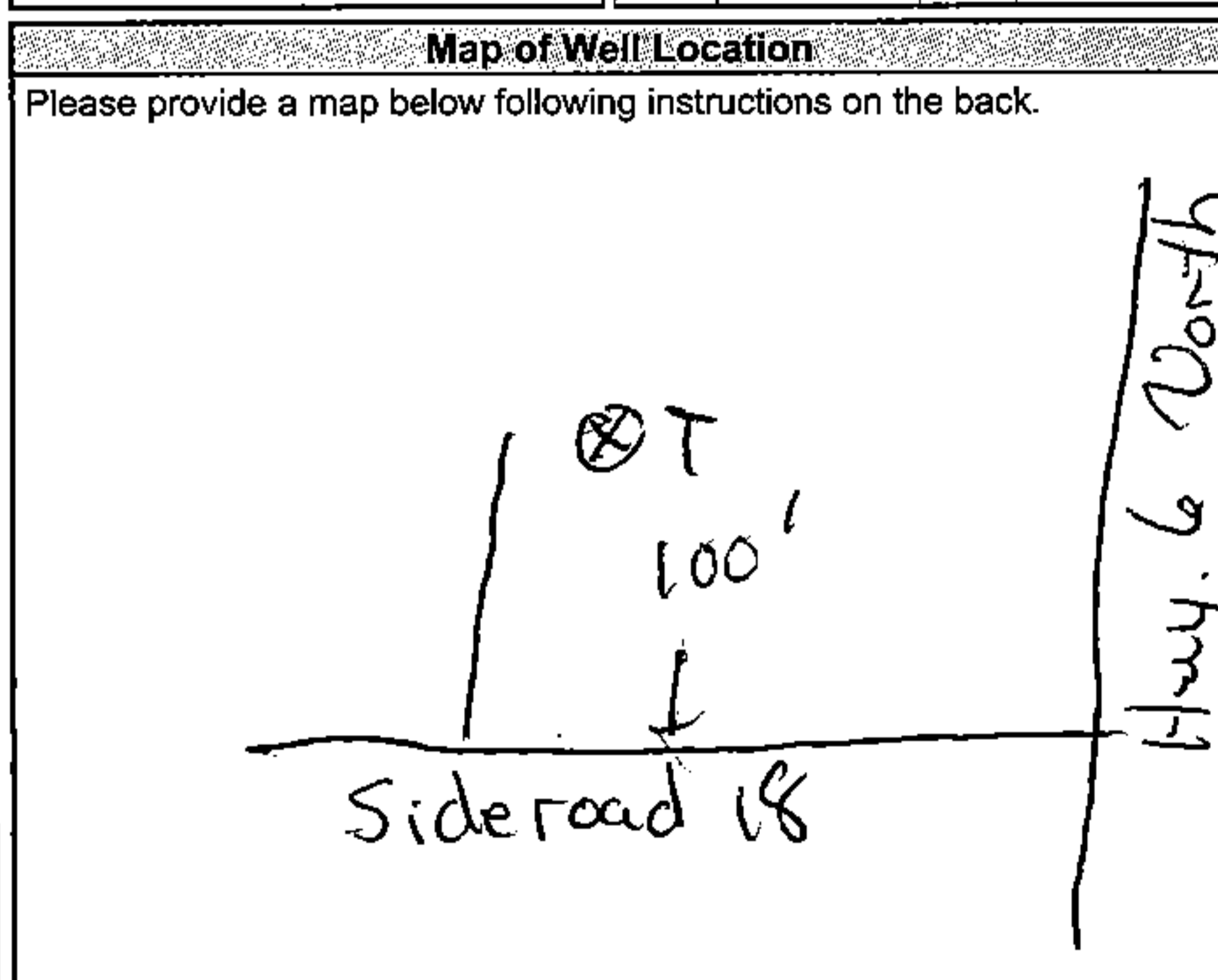
Business Name of Well Contractor: **Martin Well Drilling Inc.** Well Contractor's Licence No.: **751517**

Business Address (Street Number/Name): **Box 60 Alma** Municipality: **Wellington**

Province: **Ontario** Postal Code: **N0B1A0** Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): **5198469162** Name of Well Technician (Last Name, First Name): **Martin Mike**

Well Technician's Licence No.: **31430** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2019 08 27**



Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>2019 08 27</b>	<b>Ministry Use Only</b> Audit No. <b>2319766</b> Date Work Completed <b>2019 08 27</b> Received <b>NOV 04 2019</b>
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Measurements recorded in:  Metric  Imperial

 Page 1 of 1

Address of Well Location (Street Number/Name) <b>70 Sideroad 18</b>		Township <b>Centre Wellington</b>	Lot <b>18</b>	Concession <b>15</b>
County/District/Municipality <b>Wellington</b>		City/Town/Village <b>Fergus</b>	Province <b>Ontario</b>	Postal Code <b><del>W1M3E6</del> 2W3</b>
UTM Coordinates Zone Easting Northing <b>NAD 83 1752184034840370</b>	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
			Decommission 24" dug well according to Reg 903	0 26
	6 0 sand.			18.84

Annular Space			
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
26 13	sand	40.82	
13 11	bentonite chips	6.28	
11 7	sand	12.56	
7 6	bentonite chips	3.14	

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"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

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) From To		
	N/A			<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 _____	

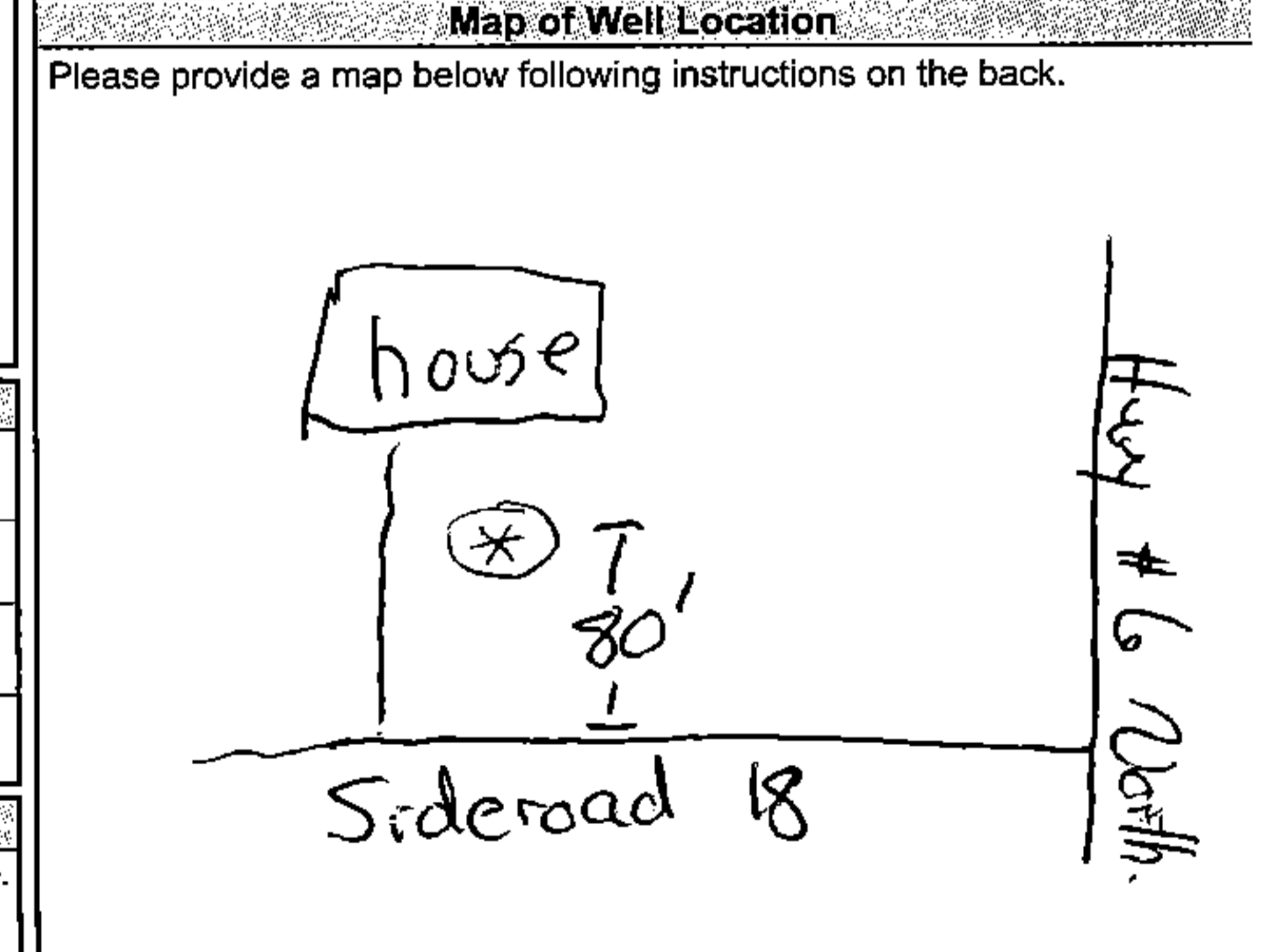
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To

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) From To	Diameter (cm/in)
	N/A		

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Martin Well Drilling Inc</b>	Well Contractor's Licence No. <b>7 5 5 7</b>		
Business Address (Street Number/Name) <b>Box 60 Alma</b>	Municipality <b>Wellington</b>		
Province <b>Ontario</b>	Postal Code <b>N0B1A0</b>	Business E-mail Address	

Bus. Telephone No. (inc. area code) <b>519 846 9162</b>	Name of Well Technician (Last Name, First Name) <b>Martin Mike</b>		
Well Technician's Licence No. <b>3 4 3 0</b>	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted <b>2019 08 22</b>	

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	10		
	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	
	25		25	
Recommended pump depth (m/ft)	30		30	
Recommended pump rate (l/min / GPM)	40		40	
Well production (l/min / GPM)	50		50	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	60		60	



Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D	Ministry Use Only Audit No. <b>2319765</b> Received <b>NOV 04 2019</b>
	Date Work Completed <b>2019 08 27</b>	



Measurements recorded in:  Metric  Imperial

**Well Location**

Address of Well Location (Street Number/Name): 64 SIDE RD #18  
 Township: CENTRE WELLINGTON  
 Lot: 18  
 Concession: 15

County/District/Municipality: WELLINGTON  
 City/Town/Village: FERGUS  
 Province: Ontario  
 Postal Code: N1M 2W3

UTM Coordinates: Zone Easting Northing  
 NAD 83 17548385 4840397  
 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	Depth (m/ft) To
BROWN	SAND			0	35
GREY	CLAY		SOFT	35	40
GREY	CLAY	GRAVEL		40	94
GREY	LIMESTONE			94	165

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	BENTONITE	
		SAND	75 GAL.

**Results of Well Yield Testing**

After test of well yield, water was: <input checked="" 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)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____ If pumping discontinued, give reason: Pump intake set at (m/ft): 160 Pumping rate (l/min / GPM): 10 Duration of pumping: 1 hrs + min Final water level end of pumping (m/ft): 77.5 If flowing give rate (l/min / GPM): Recommended pump depth (m/ft): 150 Recommended pump rate (l/min / GPM): 10 Well production (l/min / GPM): 10 Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	42		77.5
	1	47.7	1	70
	2	50.1	2	60.5
	3	51.3	3	61
	4	52.4	4	57.8
	5	53.4	5	55.5
	10	55.9	10	50.3
	15	57.2	15	48.8
	20	58	20	
	25	62.4	25	47
	30	66	30	45
	40	73.9	40	42
50	76.2	50		
60	77.5	60		

**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: Drive Rotary

**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 1/8	STEEL	0.219	+2	96	<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
6	OPEN HOLE		96	165	

**Construction Record - Screen**

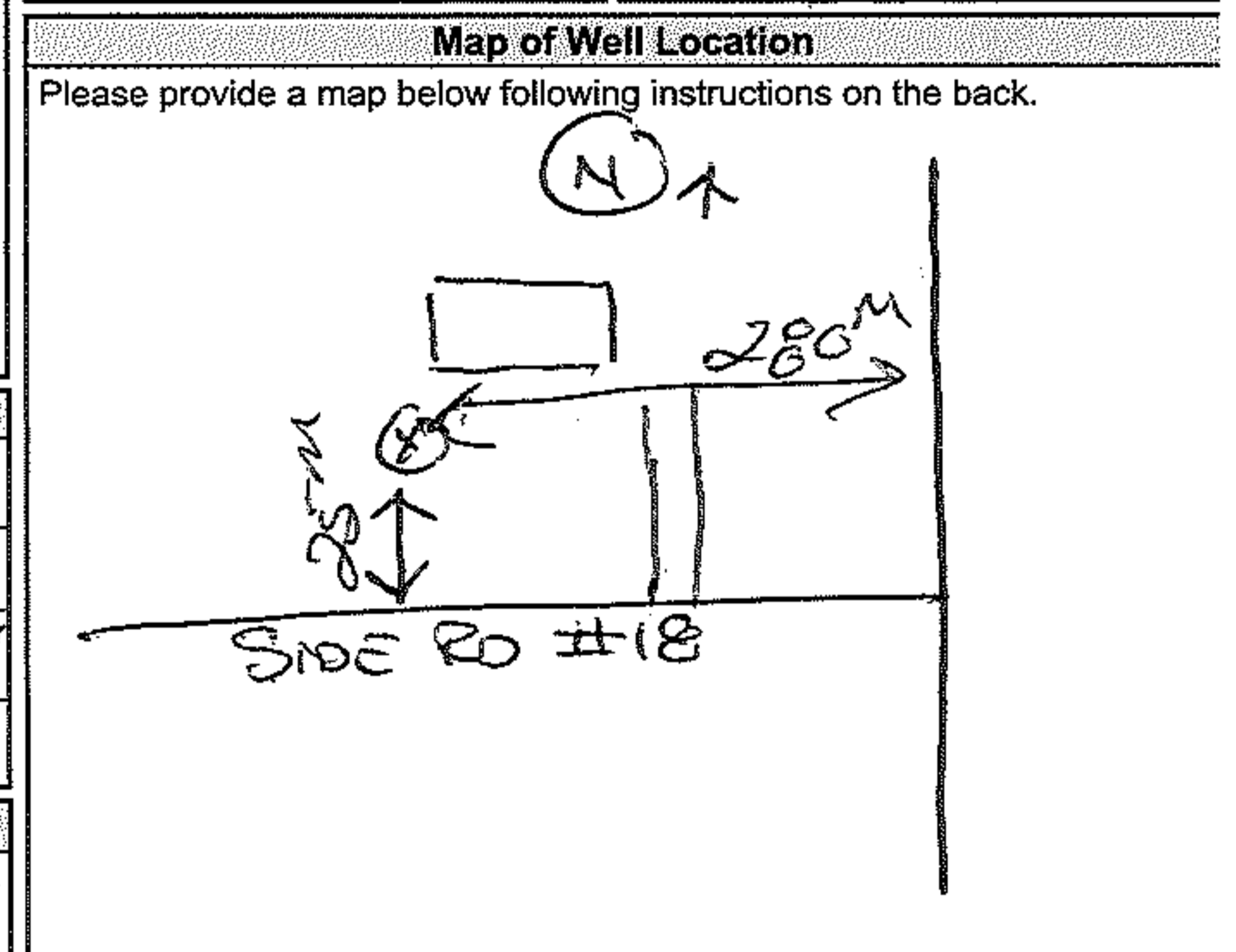
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
165	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	20	10"
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	20	96	6 5/8"
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	96	165	6"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: HANCOCK WELL DRILLING + PUMPING  
 Well Contractor's Licence No.: 75516  
 Business Address (Street Number/Name): 25896 WELLINGTON RD 7  
 Municipality: GUELPH  
 Province: ON  
 Postal Code: N1H6V2  
 Business E-mail Address: htc@hankowelldrilling.com



**Well owner's information package delivered**  Yes  No

Date Package Delivered: 2019/07/06  
 Date Work Completed: 2019/07/06

**Ministry Use Only**

Audit No.: Z291585  
 Received: DEC 24 2019

Bus. Telephone No. (inc. area code): 519-763-2339  
 Name of Well Technician (Last Name, First Name): HANCOCK  
 Well Technician's Licence No.: 051910  
 Signature of Technician and/or Contractor: [Signature]  
 Date Submitted: 2019/07/06





Well Tag No. (Place Sticker and/or Print Below)
A256310

Measurements recorded in: Metric Imperial

Well Location
Address of Well Location (Street Number/Name)
Township
Lot
Concession
County/District/Municipality
City/Town/Village
Province
Postal Code
UTM Coordinates Zone Easting Northing
Municipal Plan and Sublot Number
Other

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space
Table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³)

Method of Construction
Well Use
List of construction methods and well uses with checkboxes.

Construction Record - Casing
Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To; Status of Well

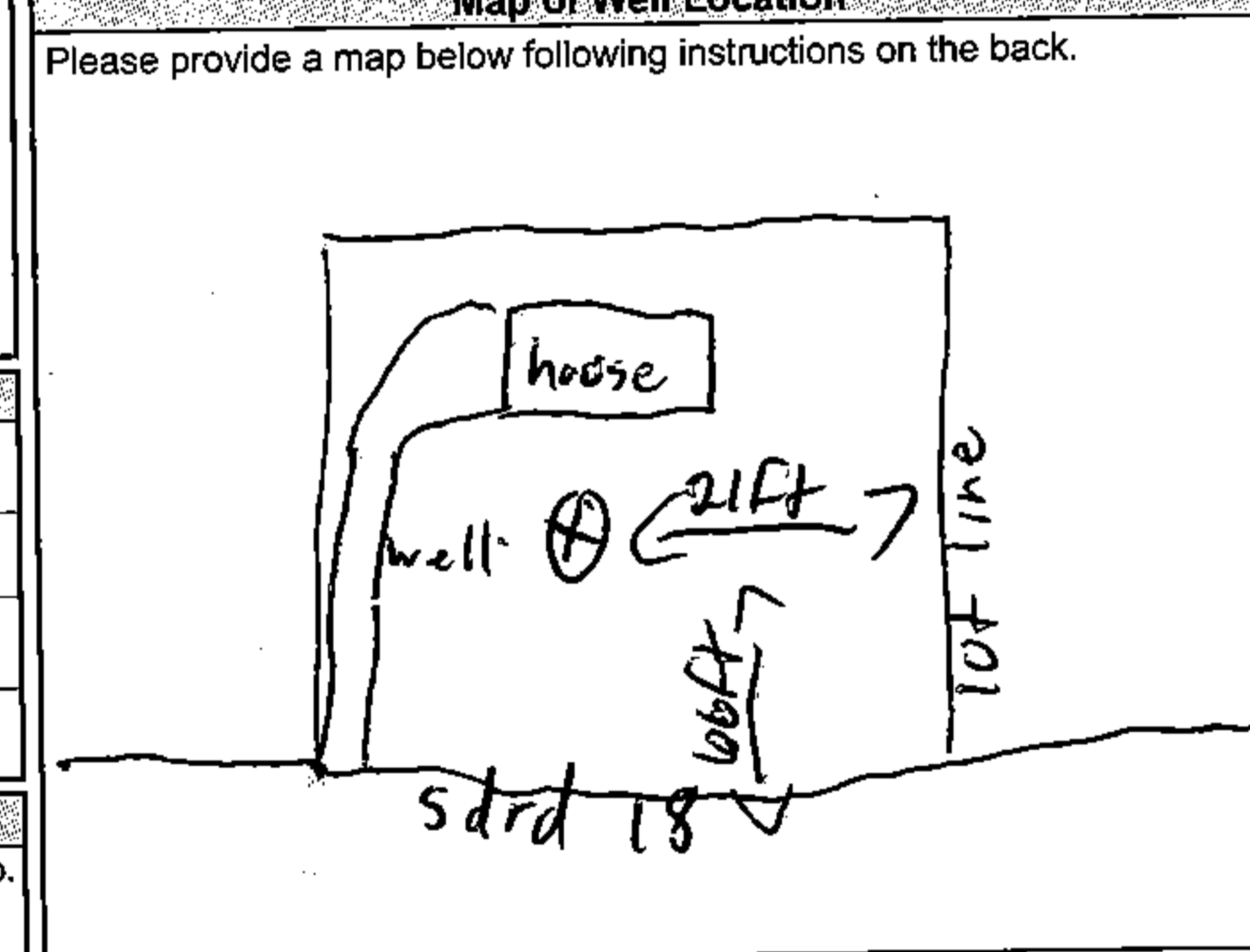
Construction Record - Screen
Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To; Status of Well

Water Details
Table with columns: Water found at Depth (m/ft), Kind of Water, Hole Diameter (Depth, Diameter)

Well Contractor and Well Technician Information
Business Name of Well Contractor
Well Contractor's Licence No.
Business Address (Street Number/Name)
Municipality
Province
Postal Code
Business E-mail Address

Well Technician's Licence No.
Signature of Technician and/or Contractor
Date Submitted

Results of Well Yield Testing
Table with columns: After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); Pump intake set at; Pumping rate; Duration of pumping; Final water level end of pumping; If flowing give rate; Recommended pump depth; Recommended pump rate; Well production; Disinfected?



Comments:

Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No.
Received

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name: Exact Last Name / Organization: Construction E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name): 89 Victoria Cres Municipality: Wellington Province: Ontario Postal Code: N1M2W3 Telephone No. (inc. area code): 5198352559

Well Location

Address of Well Location (Street Number/Name): 89 Victoria Cres Township: Centre Wellington Lot: A 8 Concession: \_\_\_\_\_

County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: N1M2W3

JTM Coordinates Zone Easting Northing: NAD 83 17548862 4840015 Municipal Plan and Sublot Number: Plan 71 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
			<u>Decommission 6" drilled well according to Reg 903</u>	<u>3 78</u>
			<u>well depth 78</u>	
			<u>well diameter 6"</u>	

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
<u>3 78</u>	<u>Bentonite chips</u>	

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	<u>30</u>		
	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"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input checked="" type="checkbox"/> <u>NA</u>	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<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"/> Not used
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Dewatering
			<input type="checkbox"/> Monitoring

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) From To	<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>town water</u> <input type="checkbox"/> Other, specify _____
	<u>NA</u>			

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: Martin Well Drilling Inc Well Contractor's Licence No.: 75517

Business Address (Street Number/Name): Box 60 Alma Municipality: Wellington

Province: Ontario Postal Code: N0B1A0 Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): 5198469162 Name of Well Technician (Last Name, First Name): Martin Mike

Well Technician's Licence No.: 34130 Signature of Technician and/or Contractor: Mike Martin Date Submitted: 20200508

Map of Well Location

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: YYY Y MM DD <u>20200508</u>	Date Work Completed: YYY Y MM DD <u>20200508</u>
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Ministry Use Only	
Audit No. <u>2319822</u>	Received <u>SEP 16 2020</u>

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name) <b>920 ST DAVID ST N</b>		Township <b>NICHOL</b>	Lot <b>19</b>	Concession <b>16</b>
County/District/Municipality <b>WELLINGTON</b>		City/Town/Village <b>FERGUS</b>	Province <b>Ontario</b>	Postal Code <b>N1M2W3</b>
UTM Coordinates Zone Easting Northing <b>NAD 83 17 549 046 4840355</b>		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		
<b>ABANDON 6" x 230' DEEP DRILLED WELL</b>						
					<b>0</b>	<b>3'</b>
					<b>3'</b>	<b>26'</b>
					<b>26'</b>	<b>95'</b>
					<b>95'</b>	<b>102'</b>
					<b>102'</b>	<b>223'</b>
					<b>223'</b>	<b>230'</b>

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

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 type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input 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 _____		

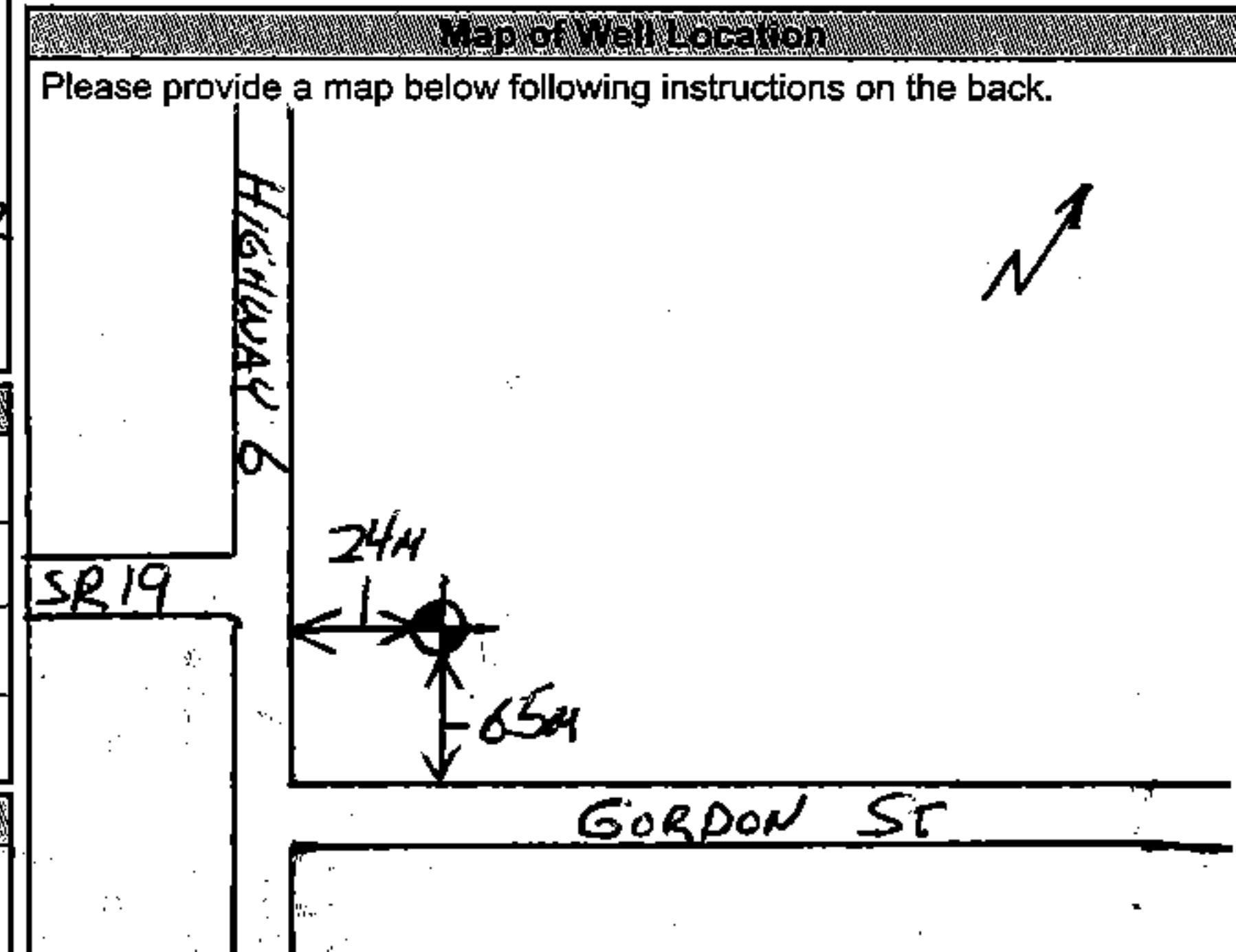
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					<input type="checkbox"/> Water Supply
					<input type="checkbox"/> Replacement Well
					<input type="checkbox"/> 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 <b>TOWN WATER</b>
					<input type="checkbox"/> Other, specify _____

Construction Record - Screen					
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	From	To

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>THE MEADOWBANK DRILLING COMPANY</b>		Well Contractor's Licence No. <b>6 8 6 5</b>	
Business Address (Street Number/Name) <b>RR 5</b>		Municipality <b>MT FOREST</b>	
Province <b>ON</b>	Postal Code <b>N0G2L0</b>	Business E-mail Address	
Bus. Telephone No. (inc. area code) <b>519 323 3548</b>		Name of Well Technician (Last Name, First Name) <b>HUGH BROADFOOT</b>	
Well Technician's Licence No. <b>1 8 9 7</b>		Signature of Technician and/or Contractor <i>[Signature]</i>	
		Date Submitted <b>20200731</b>	

Results of Well Field 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	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No				



Comments:		Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date Package Delivered <b>20200730</b>		Date Work Completed <b>20200729</b>	
				Ministry Use Only Audit No. <b>2298696</b>		Received <b>SEP 22 2020</b> <b>SEP 27 2020</b>	

## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 7368438

Well Audit Number: Z298689

Well Tag Number: A214517

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

### Well Location

<b>Address of Well Location</b>	66 SR 18
<b>Township</b>	NICHOL TOWNSHIP
<b>Lot</b>	018
<b>Concession</b>	CON 15
<b>County/District/Municipality</b>	WELLINGTON
<b>City/Town/Village</b>	FERGUS
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 548419.00 Northing: 4840393.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	CLAY	SAND		0 m	13.1 m
GREY	CLAY	FGVL		13.1 m	17.2 m
GREY	CLAY	GRVL	STNS	17.2 m	27.1 m
GREY	LMSN	FCRD		27.1 m	28.5 m
GREY	LMSN			28.5 m	49.4 m

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	7 m	BENTONITE	

### Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Convent.)	
	Domestic

--	--

**Status of Well**

Water Supply

**Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
15.9 cm	STEEL	-7 m	29.9 m
15.6 cm	OPEN HOLE	29.9 m	49.4 m

**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 6865

**Results of Well Yield Testing**

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	33.5 m
Pumping Rate	45 LPM
Duration of Pumping	1 h:0 m
Final water level	30.78 m
If flowing give rate	
Recommended pump depth	36.5 m
Recommended pump rate	
Well Production	
Disinfected?	Y

**Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	39.3 m		
1	13.85 m	1	28.5 m
2	15.5 m	2	26.52 m
3	16.89 m	3	24.72 m
4	18.09 m	4	23.13 m
5	19.16 m	5	21.7 m
10	23.1 m	10	16.76 m
15	25.56 m	15	14.65 m
20	27.2 m	20	13.94 m
25	28.32 m	25	13.64 m

30	28.97 m	30	13.44 m
40	29.86 m	40	13.17 m
45		45	
50	30.33 m	50	13.03 m
60	30.78 m	60	12.86 m

**Water Details**

Water Found at Depth	Kind
	Untested

**Hole Diameter**

Depth From	Depth To	Diameter
7 m	29.9 m	22.3 cm
29.9 m	49.4 m	15.6 cm
0 m	70 m	25.1 cm

**Audit Number:** Z298689

**Date Well Completed:** May 07, 2020

**Date Well Record Received by MOE:** September 22, 2020

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

Measurements recorded in:  Metric  Imperial

**A005625**

Page 1 of 1

Address of Well Location (Street Number/Name) <b>2 Burnett Court</b>		Township <b>Centre Wellington</b>	Lot	Concession
County/District/Municipality <b>Wellington</b>		City/Town/Village <b>Fergus</b>	Province <b>Ontario</b>	Postal Code <b>N1M2W3</b>
UTM Coordinates Zone <b>NAD 83</b>	Easting <b>17548566</b>	Northing <b>4839879</b>	Municipal Plan and Sublot Number	

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
	Abandonment of 15.8 cm drilled well		Native Soil	0 2.1
	See Audit # 05717 for original construction details		Bentonite Chips	2.1 57.9

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0 2.1	Native Soil	
2.1 57.9	Bentonite Chips	0.986

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"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____

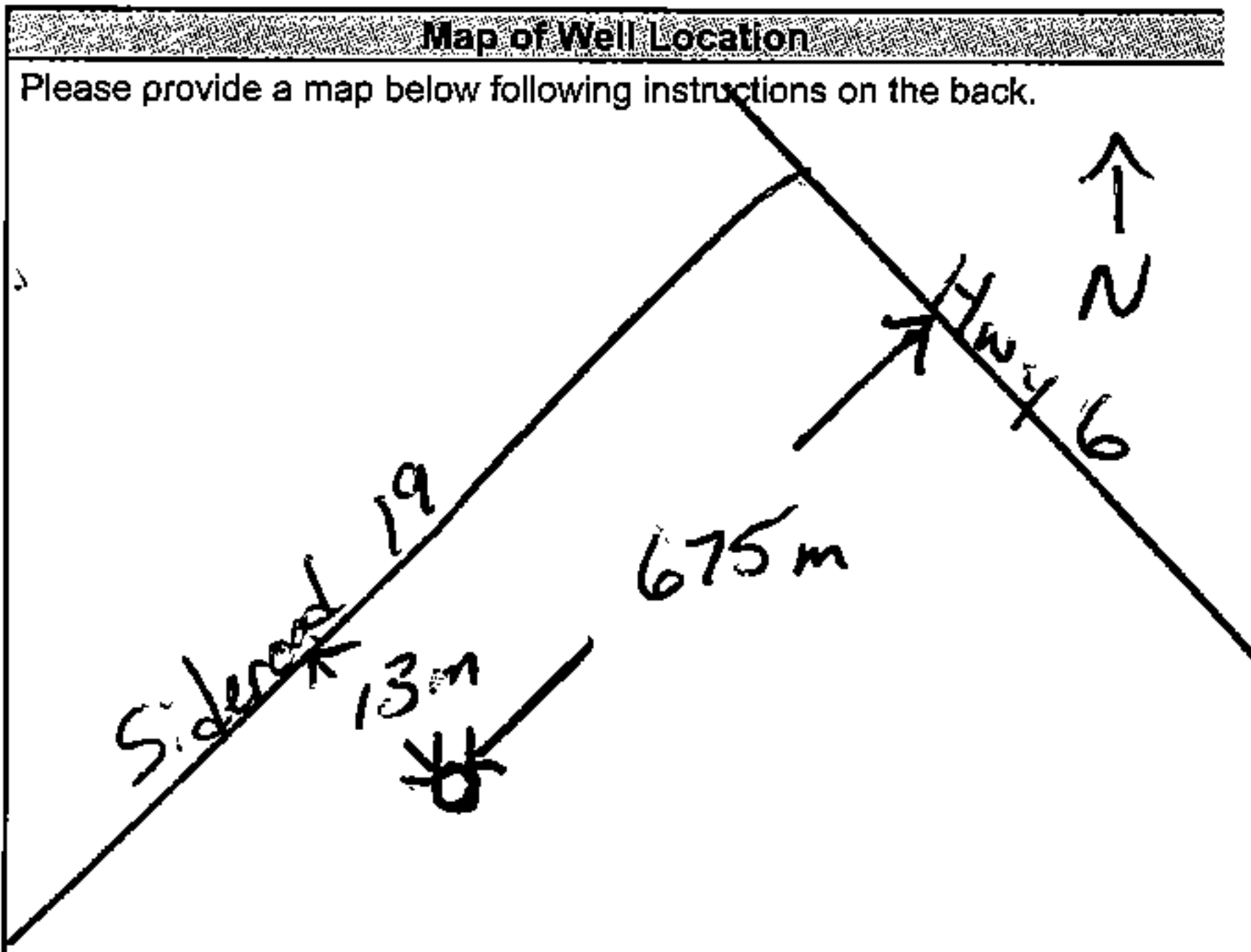
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify <b>Municipal</b> <input type="checkbox"/> Other, specify _____
			From	To	
15.9	Steel		2.1		

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

Well Contractor and Well Technician Information	
Business Name of Well Contractor <b>Well Initiatives Limited</b>	Well Contractor's Licence No. <b>7221</b>
Business Address (Street Number/Name) <b>15 Townline Oranville</b>	Municipality
Province <b>ON</b>	Postal Code <b>L9W3R4</b>
Business E-mail Address <b>info@wellinitiatives.com</b>	Name of Well Technician (Last Name, First Name) <b>Weed, Patrick</b>
Bus. Telephone No. (inc. area code) <b>5198468289</b>	Well Technician's Licence No. <b>3800</b>
Signature of Technician and/or Contractor <b>Patrick Weed</b>	Date Submitted <b>20200918</b>

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	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min/GPM)	30		30	
	40		40	
Well production (l/min/GPM)	50		50	
	60		60	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D <b>20200915</b>	<b>Ministry Use Only</b> Audit No. <b>Z346351</b> SEP 24 2020 Received
	Date Work Completed <b>20200915</b>	

**Notice of Collection of Personal Information**

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or [wellshelpdesk@ontario.ca](mailto:wellshelpdesk@ontario.ca).

Fields marked with an asterisk (\*) are mandatory.

Well Tag Number *
A 294996

**Type \***

Construction       Abandonment

**Measurement recorded in: \***

Metric       Imperial

**1. Well Owner's Information**

Last Name and First Name, or Organization is mandatory. \*

Last Name	First Name
[REDACTED]	[REDACTED]
Organization	Email Address
JENNARK HOMES	[REDACTED]

**Current Address**

Unit Number	Street Number *	Street Name *	City/Town/Village
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Country	Province	Postal Code	Telephone Number
CAN	ON	[REDACTED]	[REDACTED]

**2. Well Location**

**Address of Well Location**

Unit Number	Street Number *	Street Name *	Township
	79	SIDE ROAD 19	
Lot	Concession	County/District/Municipality	
City/Town	Province	Postal Code	
FERGUS	Ontario		
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	548746	4839873
			Municipal Plan and Sublot Number
			<a href="#">Test UTM in Map</a>

Other

**3. Overburden and Bedrock Material \***

Well Depth *	15.5	(ft)			
General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To



				(ft)	(ft)
Brown	Sand			0	15.5

#### 4. Annular Space \*

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	4	3/8 HOLEPLUG	0.13
4	15.5	#2 SAND	0.39

#### 5. Method of Construction \*

- Cable Tool   
 Rotary (Conventional)   
 Rotary (Reverse)   
 Boring   
 Air percussion   
 Diamond  
 Jetting   
 Driving   
 Digging   
 Rotary (Air)   
 Augering   
 Direct Push  
 Other (specify) \_\_\_\_\_

#### 6. Well Use \*

- Public   
 Industrial   
 Cooling & Air Conditioning  
 Domestic   
 Commercial   
 Not Used  
 Livestock   
 Municipal   
 Monitoring  
 Irrigation   
 Test Hole   
 Dewatering  
 Other (specify) \_\_\_\_\_

#### 7. Status of Well \*

- Water Supply   
 Replacement Well   
 Test Hole  
 Recharge Well   
 Dewatering Well   
 Observation and/or Monitoring Hole  
 Alteration (Construction)   
 Abandoned, Insufficient Supply   
 Abandoned, Poor Water Quality  
 Abandoned, other (specify) \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

#### 8. Construction Record - Casing \* (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
1	Plastic	0.06	-3	5.5

#### 9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
1.06	Plastic	10	5.5	15.5

## 10. Water Details

Water found at Depth (ft)  Gas Kind of water  Fresh  Untested  Other

## 11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	15.5	3.5

## 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

Clear and sand free  Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
-------------------------	--------------------	-------------------------------	---------------------------------------	---

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)
-----------------------------	-----------------------------	-----------------------

## 13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.  Make map area bigger



#### 14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2020/09/24
Comments		

#### 15. Well Contractor and Well Technician Information

Business Name of Well Contractor *		Well Contractor's License Number *	
CMT DRILLING INC		7366	
<b>Business Address</b>			
Unit Number	Street Number	Street Name *	
1	1011	INDUSTRIAL CRES	
City/Town/Village *		Province	Postal Code *
ST CLEMENTS		ON	N0B 2M0
Business Telephone Number	Business Email Address		
519-699-5775	info@cmtinc.net		
Last Name of Well Technician *		First Name of Well Technician *	Well Technician's License Number *
BLACK		CHRIS	3711

#### 16. Declaration \*

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLACK	CHRIS	cblack@cmtinc.net
Signature		Date Submitted (yyyy/mm/dd)
Chris Black		2020/10/13
Digitally signed by Chris Black Date: 2020.10.13 11:05:03 -04'00'		

#### 17. Ministry Use Only

Audit Number  
LUXE DE4A

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Fields marked with an asterisk (\*) are mandatory.

Well Tag Number *
A 294997

#### Type \*

Construction       Abandonment

#### Measurement recorded in: \*

Metric       Imperial

### 1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. \*

Last Name	First Name
[REDACTED]	[REDACTED]
Organization	Email Address
JENNARK HOMES	[REDACTED]

#### Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Country	Province	Postal Code	Telephone Number
CAN	ON	[REDACTED]	[REDACTED]

### 2. Well Location

#### Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	79	SIDE ROAD 19	
Lot	Concession	County/District/Municipality	
City/Town	Province	Postal Code	
FERGUS	Ontario		
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	548787	4839946
			Municipal Plan and Sublot Number
			<a href="#">Test UTM in Map</a>

Other

### 3. Overburden and Bedrock Material \*

Well Depth *	16	(ft)			
General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill			0	4
Brown	Sand			4	12
Grey	Silt			12	16

#### 4. Annular Space \*

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	4	3/8 HOLEPLUG	0.13
4	16	#2 SAND	0.4

#### 5. Method of Construction \*

- Cable Tool     Rotary (Conventional)     Rotary (Reverse)     Boring     Air percussion     Diamond  
 Jetting     Driving     Digging     Rotary (Air)     Augering     Direct Push  
 Other (specify) \_\_\_\_\_

#### 6. Well Use \*

- Public     Industrial     Cooling & Air Conditioning  
 Domestic     Commercial     Not Used  
 Livestock     Municipal     Monitoring  
 Irrigation     Test Hole     Dewatering  
 Other (specify) \_\_\_\_\_

#### 7. Status of Well \*

- Water Supply     Replacement Well     Test Hole  
 Recharge Well     Dewatering Well     Observation and/or Monitoring Hole  
 Alteration (Construction)     Abandoned, Insufficient Supply     Abandoned, Poor Water Quality  
 Abandoned, other (specify) \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

#### 8. Construction Record - Casing \* (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
1	Plastic	0.06	-3	6

#### 9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
1.06	Plastic	10	6	16

### 10. Water Details

Water found at Depth (ft)  Gas Kind of water  Fresh  Untested  Other

### 11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	16	3.5

### 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

Clear and sand free  Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
-------------------------	--------------------	-------------------------------	---------------------------------------	---

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)
-----------------------------	-----------------------------	-----------------------

### 13. Map of Well Location \*

Map 1. Please Click the map area below to import an image file to use as the map.  Make map area bigger



#### 14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2020/09/24
Comments		

#### 15. Well Contractor and Well Technician Information

Business Name of Well Contractor *		Well Contractor's License Number *	
CMT DRILLING INC		7366	
<b>Business Address</b>			
Unit Number	Street Number	Street Name *	
1	1011	INDUSTRIAL CRES	
City/Town/Village *		Province	Postal Code *
ST CLEMENTS		ON	N0B 2M0
Business Telephone Number	Business Email Address		
519-699-5775	info@cmtinc.net		
Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *	
BLACK	CHRIS	3711	

#### 16. Declaration \*

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLACK	CHRIS	cblack@cmtinc.net
Signature		Date Submitted (yyyy/mm/dd)
Chris Black		2020/10/13
Digitally signed by Chris Black Date: 2020.10.13 11:13:14 -04'00'		

#### 17. Ministry Use Only

Audit Number  
87WU 2MF2

## 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>).

[Go Back to Map](#)

### Well ID

Well ID Number: 7372104  
Well Audit Number: C50245  
Well Tag Number: A307880

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

### Well Location

<b>Address of Well Location</b>	
<b>Township</b>	FERGUS TOWN
<b>Lot</b>	
<b>Concession</b>	
<b>County/District/Municipality</b>	WELLINGTON
<b>City/Town/Village</b>	
<b>Province</b>	ON
<b>Postal Code</b>	n/a
<b>UTM Coordinates</b>	NAD83 — Zone 17 Easting: 549252.00 Northing: 4840167.00
<b>Municipal Plan and Sublot Number</b>	
<b>Other</b>	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

### Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

### Method of Construction & Well Use

Method of Construction	Well Use

### Status of Well

#### Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To




**Construction Record - Screen**

Outside Diameter	Material	Depth From	Depth To

**Well Contractor and Well Technician Information**

Well Contractor's Licence Number: 7324

**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 From	Depth To	Diameter

**Audit Number:** C50245

**Date Well Completed:** October 09, 2020

**Date Well Record Received by MOE:** November 03, 2020

**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

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

Measurements recorded in:  Metric  Imperial

Well Location

Address of Well Location (Street Number/Name): 19 Burnett Crt

County/District/Municipality: Wellington

UTM Coordinates: Zone 17 Easting 548684 Northing 4839882

Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

City/Town/Village: Fergus Province: Ontario Postal Code: N1M2W3

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	Depth (m/ft) To
	Well Tagged & Record Generated Following Completion Of Casing Extension On Previously Untagged 12.7cm (5") dia. Well Drilled By Others With 15.2cm (6") dia. Steel Casing				

**Annular Space**

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

**Method of Construction**

Cable Tool  Rotary (Conventional)  Rotary (Reverse)  Boring  Air percussion  Other, specify \_\_\_\_\_

Diamond  Jetting  Driving  Digging

**Well Use**

Domestic  Livestock  Irrigation  Industrial  Other, specify \_\_\_\_\_

Public  Commercial  Not used  Municipal  Test Hole  Cooling & Air Conditioning

**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	
<u>15.2</u>	<u>steel</u>	<u>0.48</u>	<u>0.20</u>	<u>+0.56</u>	<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 _____
<u>12.7</u>	<u>steel</u>	<u>-</u>	<u>-</u>	<u>0.20</u>	

**Construction Record - Screen**

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

**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) From	Depth (m/ft) To	Diameter (cm/in)

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Well Initiatives Ltd Well Contractor's Licence No.: 7221

Business Address (Street Number/Name): 15 Tewline Rd. Municipality: Orangerille

Province: Ont Postal Code: L9W3R4 Business E-mail Address: info@wellinitatives.com

Bus. Telephone No. (inc. area code): 5198468289 Name of Well Technician (Last Name, First Name): Rice, Darryl

Well Technician's Licence No.: 3923 Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: 20201028

**Results of Well Yield Testing**

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

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?  Yes  No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level				
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		

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: 20201027

Date Work Completed: \_\_\_\_\_

**Ministry Use Only**

Audit No: Z346376

Received: NOV 18 2020










## **Appendix D Source Protection Vulnerable Area Mapping**

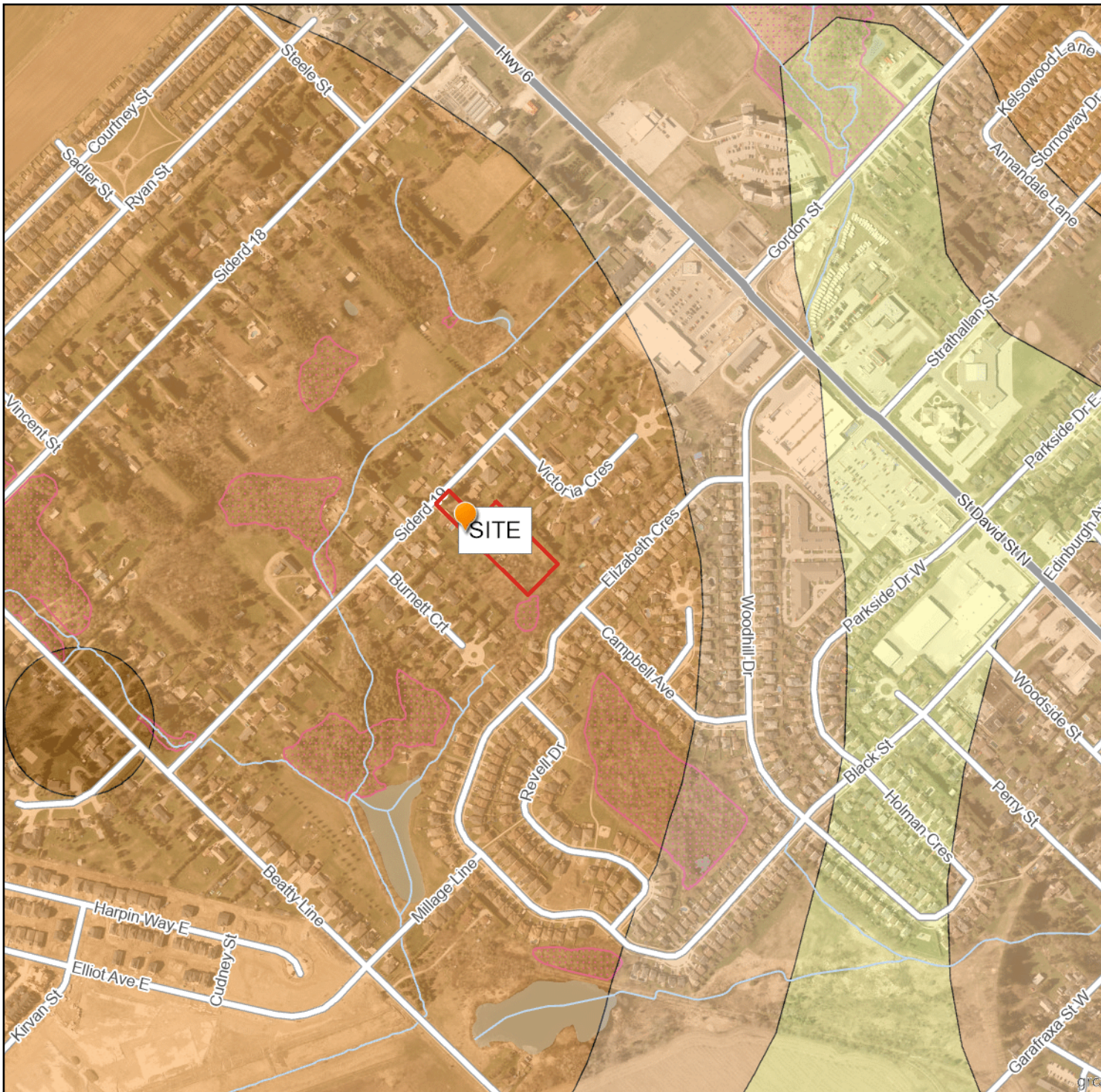
---



### Wellhead Protection Areas

#### Legend

-  Municipal Boundary (GRCA)
-  Wetland (GRCA)
- WHPA-Wellhead Protection Area (GRCA)
  -  WHPA-A
  -  WHPA-B
  -  WHPA-C
  -  WHPA-D
-  Watercourse (GRCA)
-  Waterbody (GRCA)
-  Conservation Area Boundary (GRCA)



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Disclaimer: This map is for illustrative purposes only. Information contained herein is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

The source for each data layer is shown in parentheses in the map legend. See [Sources and Citations](#) for details.

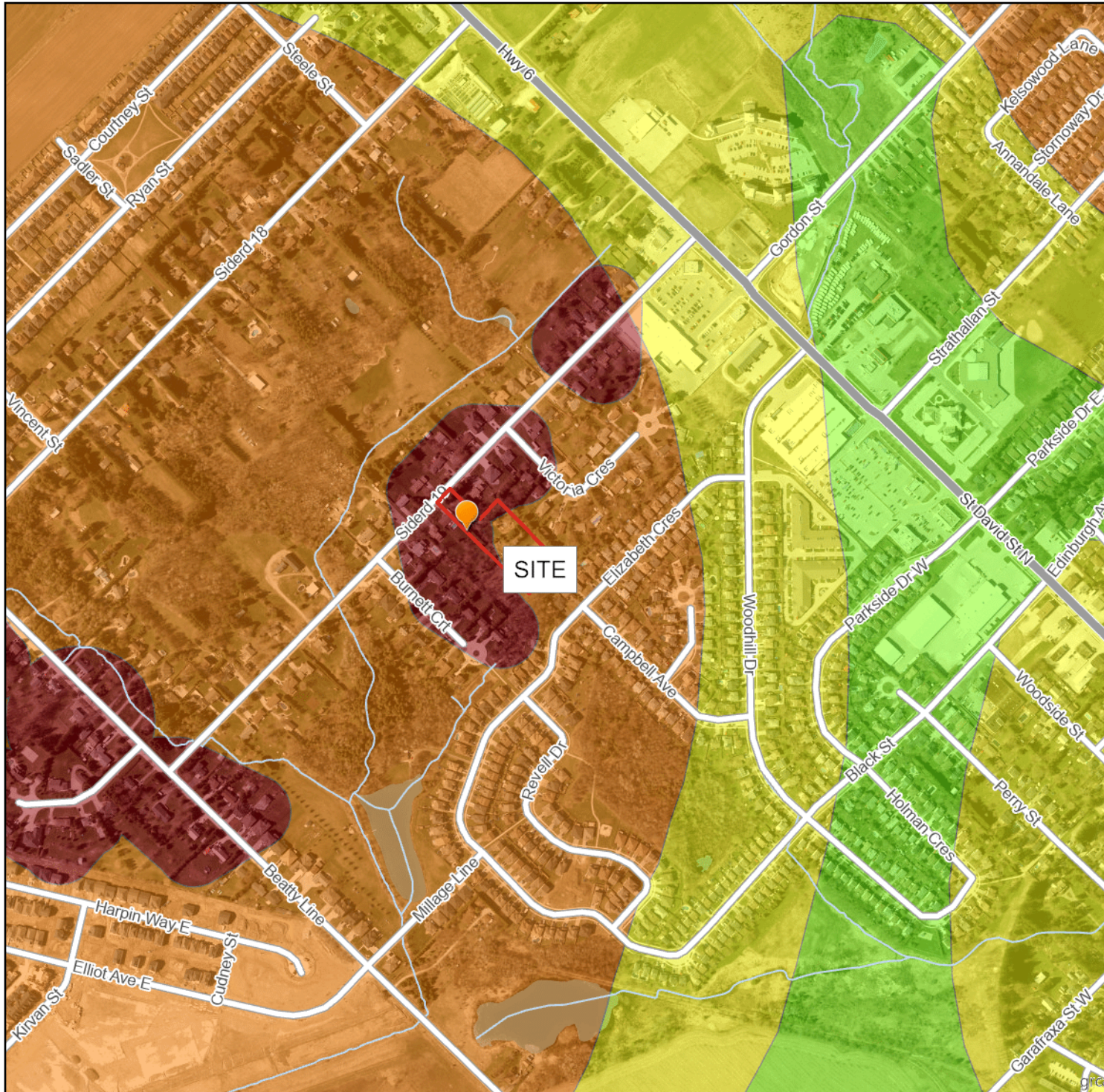




### Wellhead Protection Areas - Vulnerability

#### Legend

- Municipal Boundary (GRCA)
- WHPA Vulnerability (GRCA)**
  - 10
  - 8
  - 6
  - 4
  - 2
- Watercourse (GRCA)
- Waterbody (GRCA)
- Conservation Area Boundary (GRCA)



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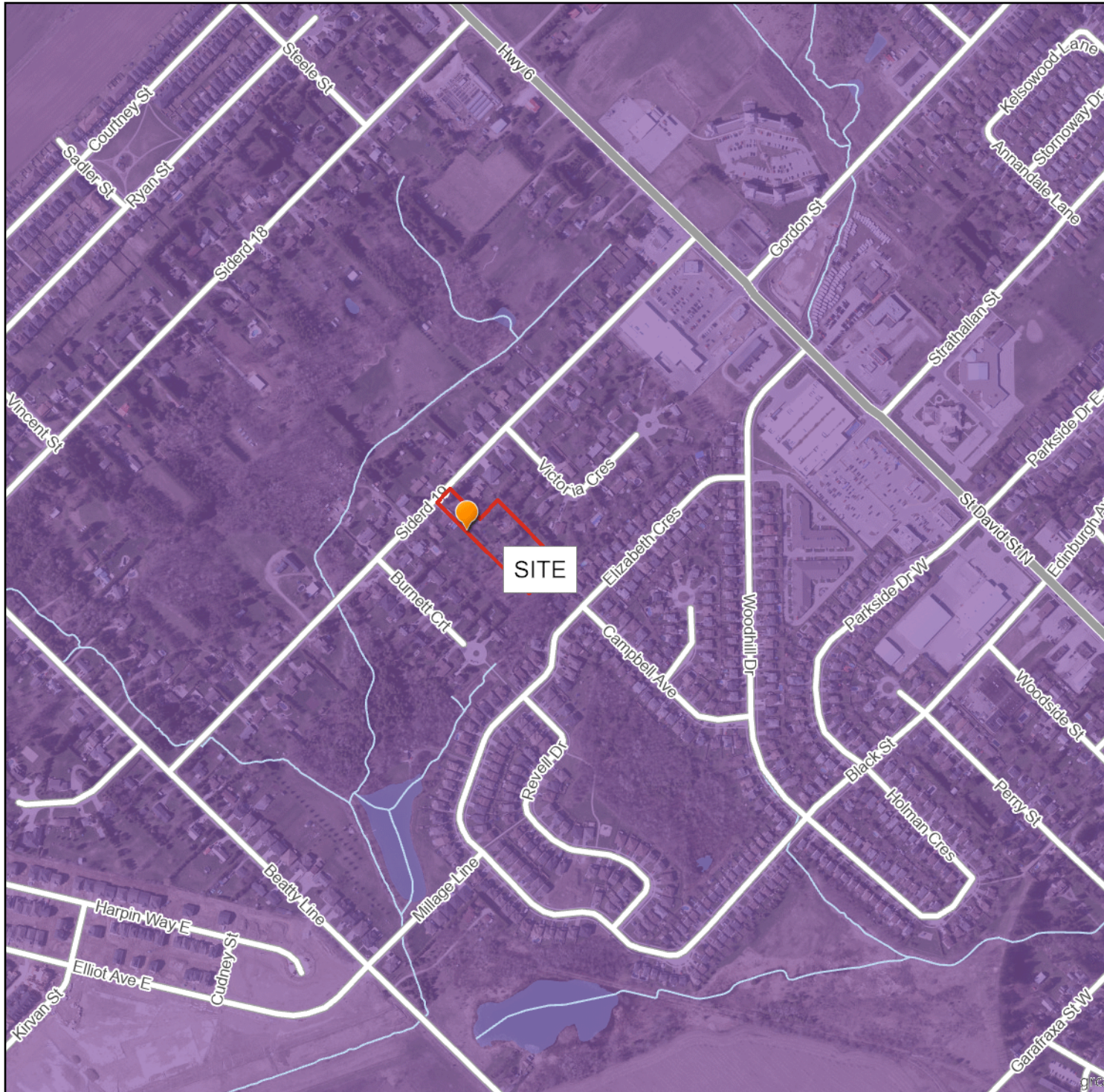




### Wellhead Water Quantity Zone

#### Legend

- Municipal Boundary (GRCA)
- Wellhead Water Quantity Zone (GRCA)**
  - Significant Risk (Approved)
  - Significant Risk (Draft)
  - Moderate Risk (Approved)
  - Moderate Risk (Draft)
  - Low Risk (Approved)
  - Low Risk (Draft)
- Watercourse (GRCA)
- Waterbody (GRCA)
- Conservation Area Boundary (GRCA)



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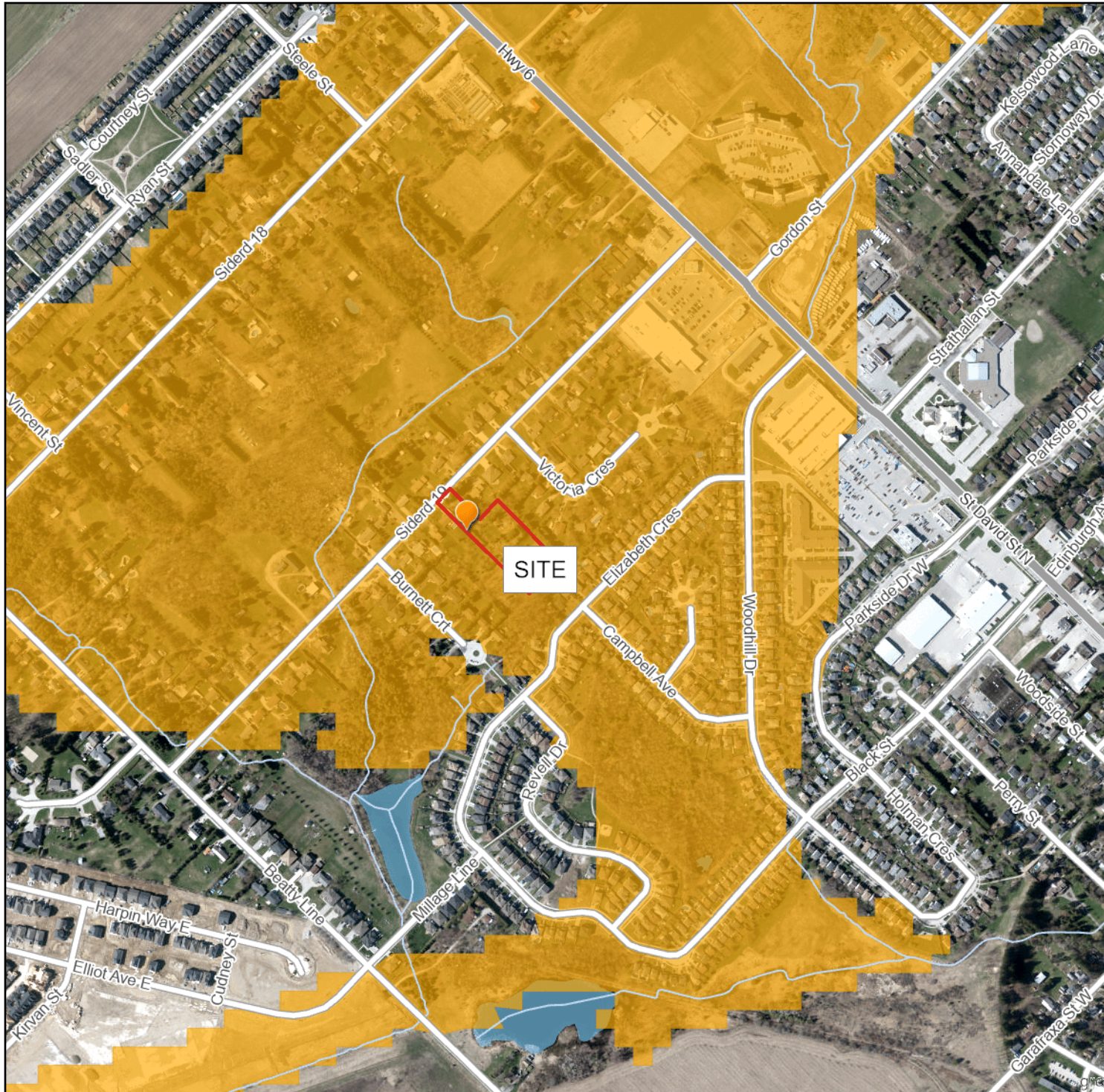




### Significant Groundwater Recharge Areas

#### Legend

-  Municipal Boundary (GRCA)
-  Signif. GW Recharge - Tier 2 (GRCA)
-  Watercourse (GRCA)
-  Waterbody (GRCA)
-  Conservation Area Boundary (GRCA)



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The source for each data layer is shown in parentheses in the map legend. See [Sources and Citations](#) for details.

Scale 1:7,556

NAD83 UTM zone 17 (EPSG:26917)






## **Appendix E Borehole Logs and Grain-Size Analyses**



### Legend

 Monitoring Well (JLP, 2023)



Notes:  
 1. The soil types and boundaries are applicable only at the location of the boreholes. Between boreholes, they are assumed and may change substantially. The topsoil thicknesses quoted in the report are used for discussion purposes only and should not be used for estimating purposes.  
 2. The Ground Surface elevations at the borehole locations were derived from the Temporary Benchmark (TBM) as shown.  
 3. The soil samples will be retained for three months from the date of issue of the final report and then discarded, unless the client has requested to extend the storage period will fees.

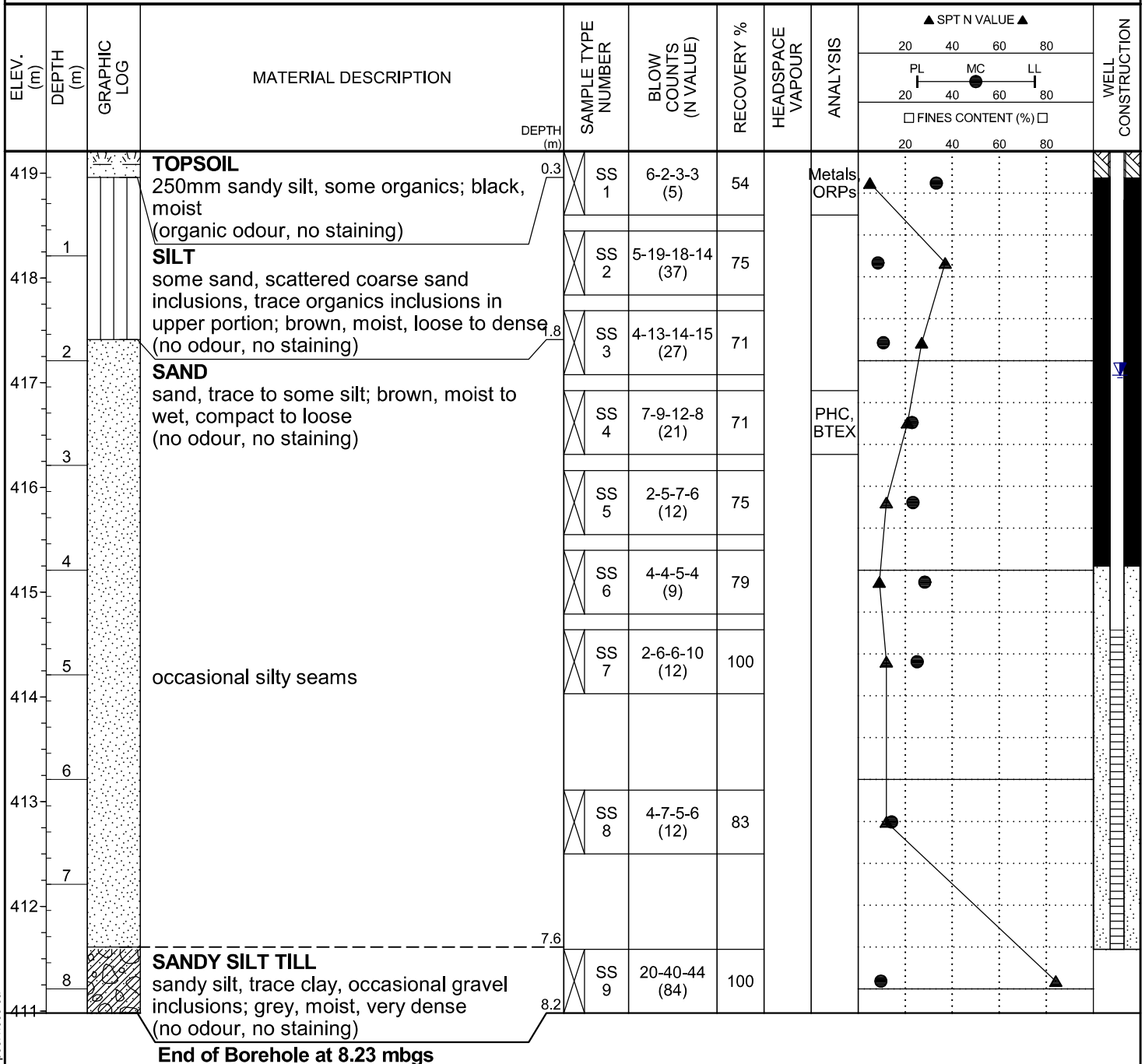


**Geotechnical Investigation**  
 WrightHaven Homes Limited  
 73-79 Side Road 19,  
 Township of Centre Wellington (Fergus), On

Date: March 29, 2023	Ref. No. G4670-23-01	
Prepared By: PB	Checked By: JB	DWG. No. <b>1</b>
Source: Google Earth	Scale: N.T.S.	

**CLIENT** Wrighthaven Homes Limited  
**PROJECT NUMBER** G4670-22-12  
**DATE STARTED** 23-1-30 **COMPLETED** 23-1-30  
**DRILLING CONTRACTOR** Pontil Drilling  
**DRILLING METHOD** Hollow Stem  
**LOGGED BY** AK/PB **CHECKED BY** AL  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Residential Subdivision  
**PROJECT LOCATION** 79 Sideroad 19, Fergus, Ontario  
**GROUND ELEVATION** 419.211 m **HOLE SIZE** 200mm  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**▼ AFTER DRILLING** 2.14 m / Elev 417.07 m



**Water Level Readings:**

Date	Depth (m)	Elevation (m)
Mar 14, 2023	N/R	N/R
Apr 05, 2023	2.14	417.07

**CLIENT** Wrighthaven Homes Limited  
**PROJECT NUMBER** G4670-22-12  
**DATE STARTED** 23-1-30 **COMPLETED** 23-1-30  
**DRILLING CONTRACTOR** Pontil Drilling  
**DRILLING METHOD** Hollow Stem  
**LOGGED BY** AK/PB **CHECKED BY** AL  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Residential Subdivision  
**PROJECT LOCATION** 79 Sideroad 19, Fergus, Ontario  
**GROUND ELEVATION** 417.1 m **HOLE SIZE** 200mm  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**▼ AFTER DRILLING** 0.12 m / Elev 416.98 m

ELEV. (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (m)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	RECOVERY %	HEADSPACE VAPOUR	ANALYSIS	▲ SPT N VALUE ▲			WELL CONSTRUCTION
										20	40	60	
417	0.1		<b>FILL</b> 125mm sand and gravel, some silt; brown, moist (no odour, no staining)	0.1	SS 1	8-4-4-6 (8)	75		Metals, ORPs	▲	●		
416	0.8		<b>TOPSOIL</b> 650mm sandy silt, some organics; black, moist (organic odour, no staining)	0.8	SS 2	2-6-5-5 (11)	75			▲	●		
415	1.5		<b>SILT</b> some sand, occasional coarse sand inclusions; brown, moist, compact (no odour, no staining)	1.5	SS 3	3-4-4-4 (8)	50		PHC, BTEX	▲	●		
414			<b>SAND</b> sand, trace silt; brown, wet, loose to compact (no odour, no staining)		SS 4	2-10-19-14 (29)	71			▲	●		
413					SS 5	5-11-15-9 (26)	67			▲	●		
412	5.2			5.2	SS 6	3-4-4-12 (8)	58			▲	●		

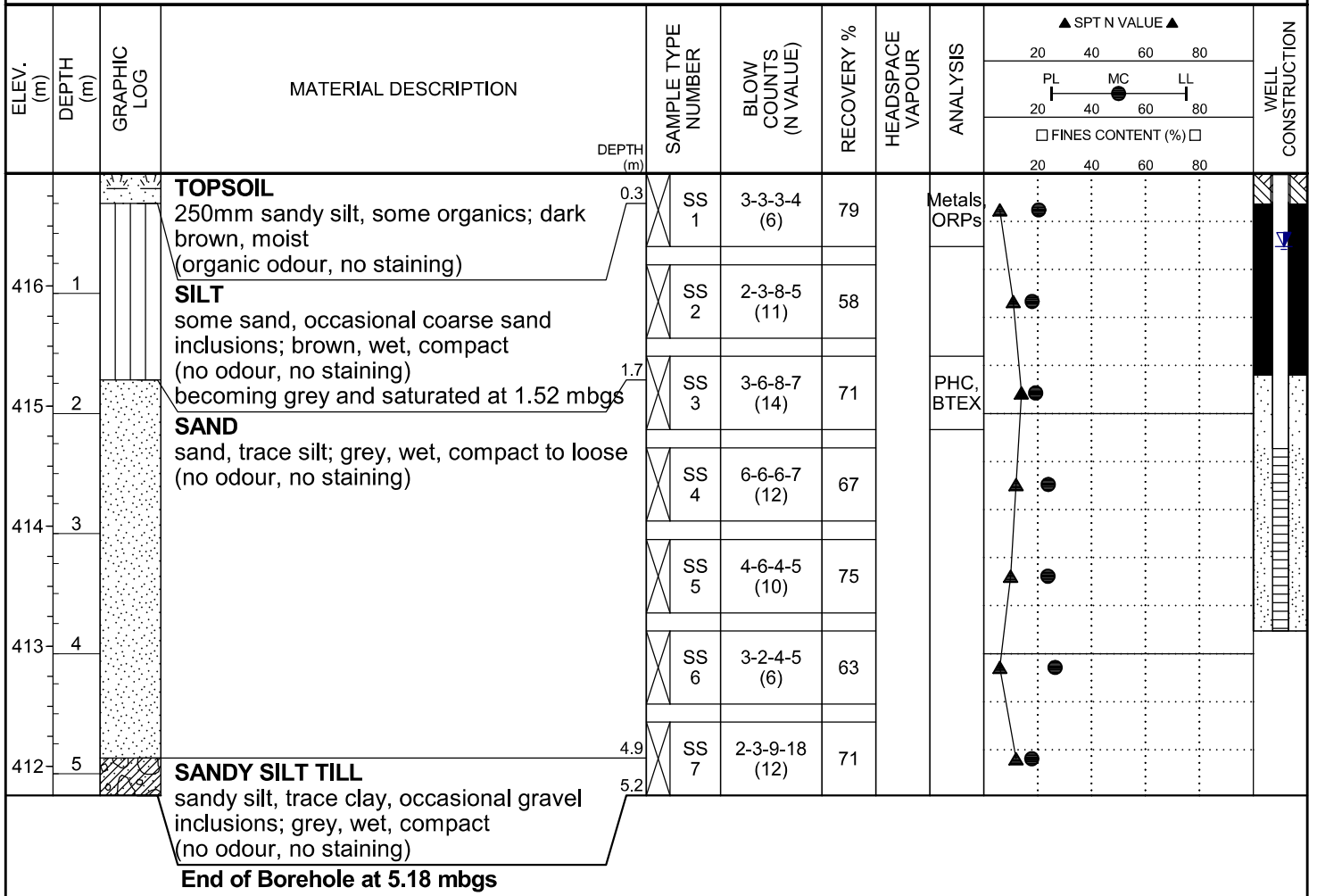
**End of Borehole at 5.18 mbgs**

**Water Level Readings:**

Date	Depth (m)	Elevation (m)
Mar 14, 2023	N/R	N/R
Apr 05, 2023	0.12	416.98

**CLIENT** Wrighthaven Homes Limited  
**PROJECT NUMBER** G4670-22-12  
**DATE STARTED** 23-1-31 **COMPLETED** 23-1-31  
**DRILLING CONTRACTOR** Pontil Drilling  
**DRILLING METHOD** Hollow Stem  
**LOGGED BY** AK/PB **CHECKED BY** AL  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Residential Subdivision  
**PROJECT LOCATION** 79 Sideroad 19, Fergus, Ontario  
**GROUND ELEVATION** 416.939 m **HOLE SIZE** 200mm  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**▼ AFTER DRILLING** 0.61 m / Elev 416.33 m



**Water Level Readings:**

Date	Depth (m)	Elevation (m)
Mar 14, 2023	1.21	415.73
Apr 05, 2023	0.61	416.33

**CLIENT** Wrighthaven Homes Limited  
**PROJECT NUMBER** G4670-22-12  
**DATE STARTED** 23-1-30 **COMPLETED** 23-1-30  
**DRILLING CONTRACTOR** Pontil Drilling  
**DRILLING METHOD** Hollow Stem  
**LOGGED BY** AK/PB **CHECKED BY** AL  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Residential Subdivision  
**PROJECT LOCATION** 79 Sideroad 19, Fergus, Ontario  
**GROUND ELEVATION** 416.302 m **HOLE SIZE** 200mm  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**▼ AFTER DRILLING** 0.20 m / Elev 416.10 m

ELEV. (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (m)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	RECOVERY %	HEADSPACE VAPOUR	ANALYSIS	▲ SPT N VALUE ▲		WELL CONSTRUCTION		
										PL	MC		LL	
										□ FINES CONTENT (%) □				
										20	40	60	80	
416	0.1		<b>FILL</b> 125mm sand and gravel, some silt; brown, moist (no odour, no staining)	0.1	SS 1	3-3-5-3 (8)	29							
415	1.0		<b>TOPSOIL</b> 500mm sandy silt, some organics; black, moist (organic odour, no staining)	1.0	SS 2	1-3-5-5 (8)	46							
414	2.0		<b>SILT</b> some sand, scattered organic seams and wood fibres in upper portion; grey, wet, loose (no odour, no staining)	2.0	SS 3	2-2-3-3 (5)	71							
413	3.5		<b>SAND</b> sand, trace silt; grey, wet, loose to compact (no odour, no staining)	3.5	SS 4	3-7-11-7 (18)	50							
	3.7		<b>SANDY SILT TILL</b> sandy silt, occasional gravel inclusions; grey, wet, compact (no odour, no staining)	3.7	SS 5	15-15-15-13 (30)	100							
			<b>End of Borehole at 3.66 mbgs</b>											

**Water Level Readings:**

Date	Depth (m)	Elevation (m)
Mar 14, 2023	0.68	415.62
Apr 05, 2023	0.20	416.10

**CLIENT** Wrightshaven Homes Limited  
**PROJECT NUMBER** G4670-22-12  
**DATE STARTED** 23-1-31 **COMPLETED** 23-1-31  
**DRILLING CONTRACTOR** Pontil Drilling  
**DRILLING METHOD** Hollow Stem  
**LOGGED BY** AK/PB **CHECKED BY** AL  
**NOTES** \_\_\_\_\_

**PROJECT NAME** Residential Subdivision  
**PROJECT LOCATION** 79 Sideroad 19, Fergus, Ontario  
**GROUND ELEVATION** 415.859 m **HOLE SIZE** 200mm  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** ---  
**AT END OF DRILLING** ---  
**▼ AFTER DRILLING** 0.30 m / Elev 415.56 m

ELEV. (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (m)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	RECOVERY %	HEADSPACE VAPOUR	ANALYSIS	▲ SPT N VALUE ▲			WELL CONSTRUCTION
										20	40	60	
415.859	0.0		<b>TOPSOIL</b> 100mm sandy silt, some organics; black (organic odour, no staining)	0.1	SS 1	3-3-4-4 (7)	42						
415.0	1.0		<b>SILT</b> some sand, scattered organic seams and plant fibres in upper portion; brown, wet, loose (no odour, no staining)	1.8	SS 2	2-2-3-5 (5)	63						
414.0	2.0		<b>SAND</b> sand, trace silt; brown, mottled grey, wet, loose to very loose (no odour, no staining) becoming grey at 2.3 mbgs	2.3	SS 3	4-6-4-5 (10)	67						
413.0	3.0				SS 4	5-6-3-3 (9)	58						
412.5	3.5				SS 5	1-1-2-6 (3)	71						
412.0	4.0		<b>SANDY SILT TILL</b> sandy silt, trace clay, occasional gravel inclusions; grey, wet, very dense (no odour, no staining)	4.42	SS 6	11-17-36-37 (53)	67						

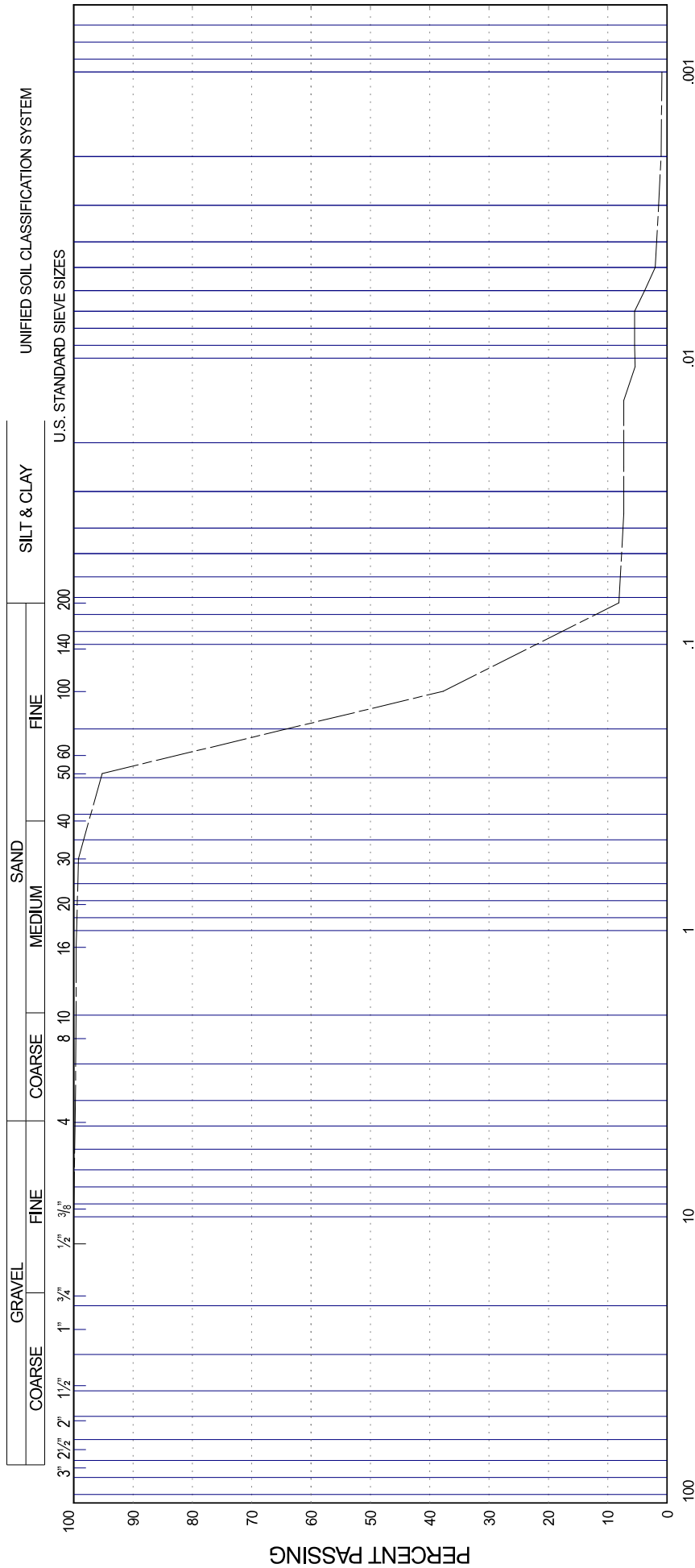
**End of Borehole at 4.42 mbgs**

**Water Level Readings:**

Date	Depth (m)	Elevation (m)
Mar 14, 2023	0.67	415.19
Apr 05, 2023	0.29	415.56

# GRAIN SIZE DISTRIBUTION

OUR REFERENCE N° G4670-22-12

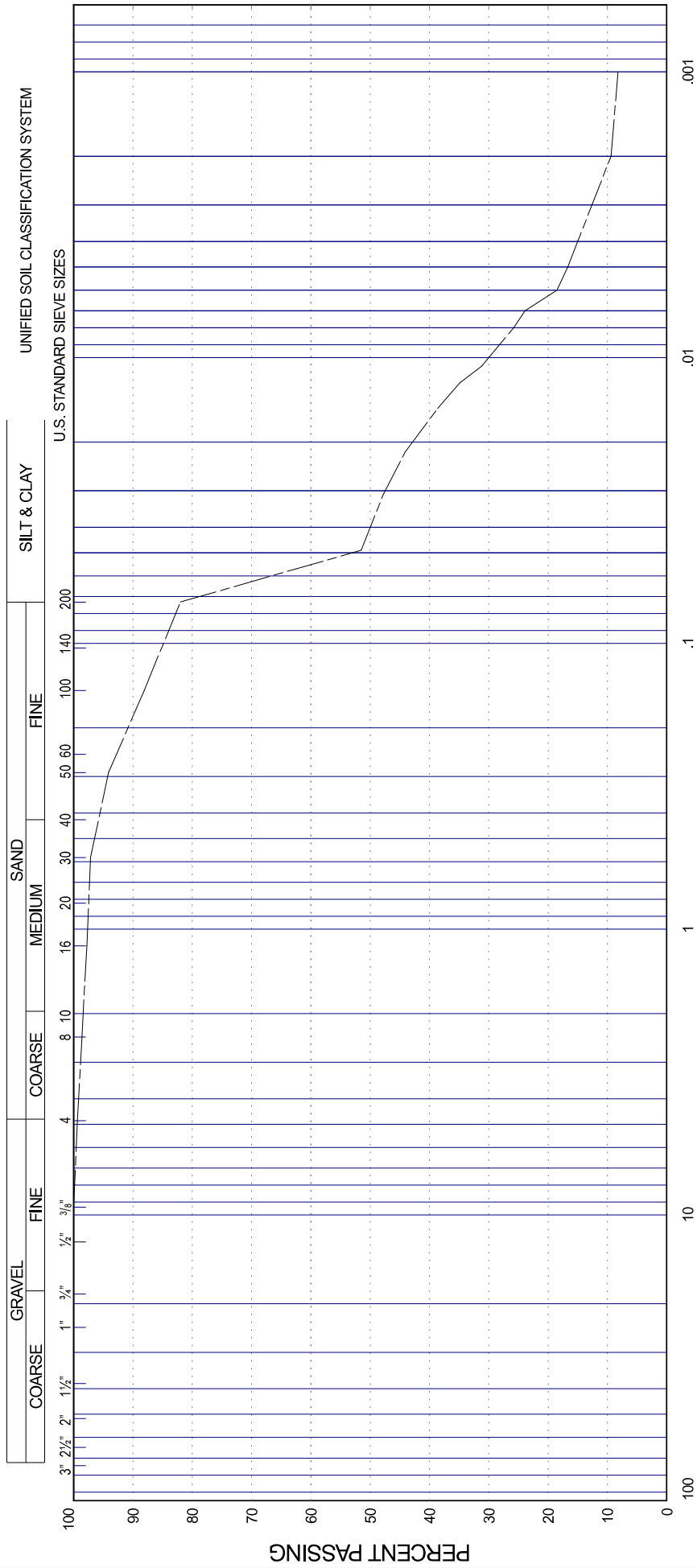






# GRAIN SIZE DISTRIBUTION

OUR REFERENCE N° G4670-22-12



ENCLOSURE N° 9

PLASTIC PROPERTIES  
 LIQUID LIMIT % = 21.4  
 PLASTIC LIMIT % = 17.7  
 PLASTICITY INDEX % = 3.8  
 MOISTURE CONTENT % = 16.40

## Grain Size in Millimeters

COEFFICIENT OF UNIFORMITY:  
 COEFFICIENT OF CURVATURE:

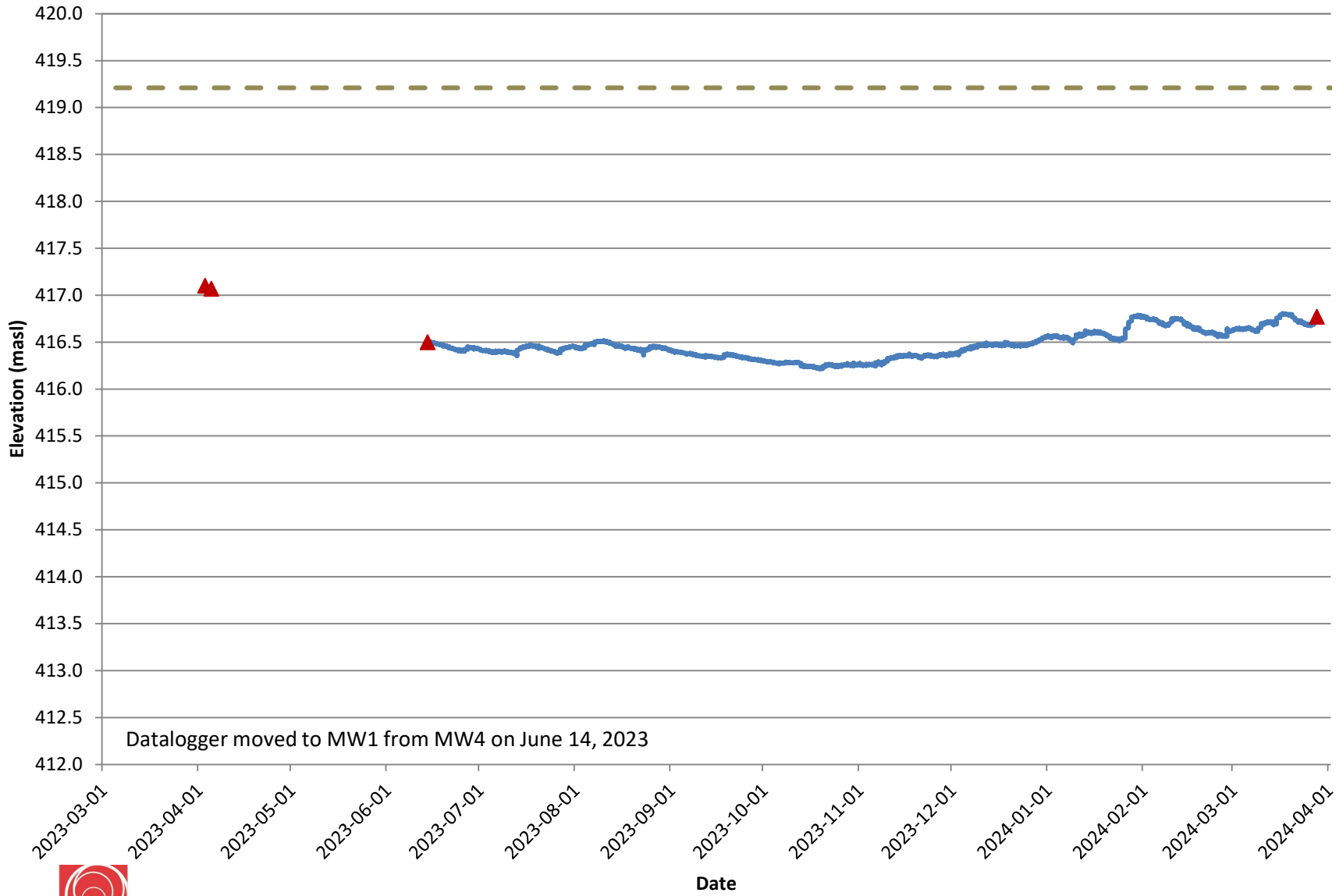
**Classification of Sample and Group Symbol:**  
 SILT, some sand, trace clay (ML)

PROJECT: Residential Subdivision  
 LOCATION: 79 - 87 Sideroad, Fergus, ON  
 BOREHOLE N°: 5  
 SAMPLE N°: 3  
 DEPTH: 1.5 - 2.1 m±  
 ELEVATION: 414.3 - 413.7 m±

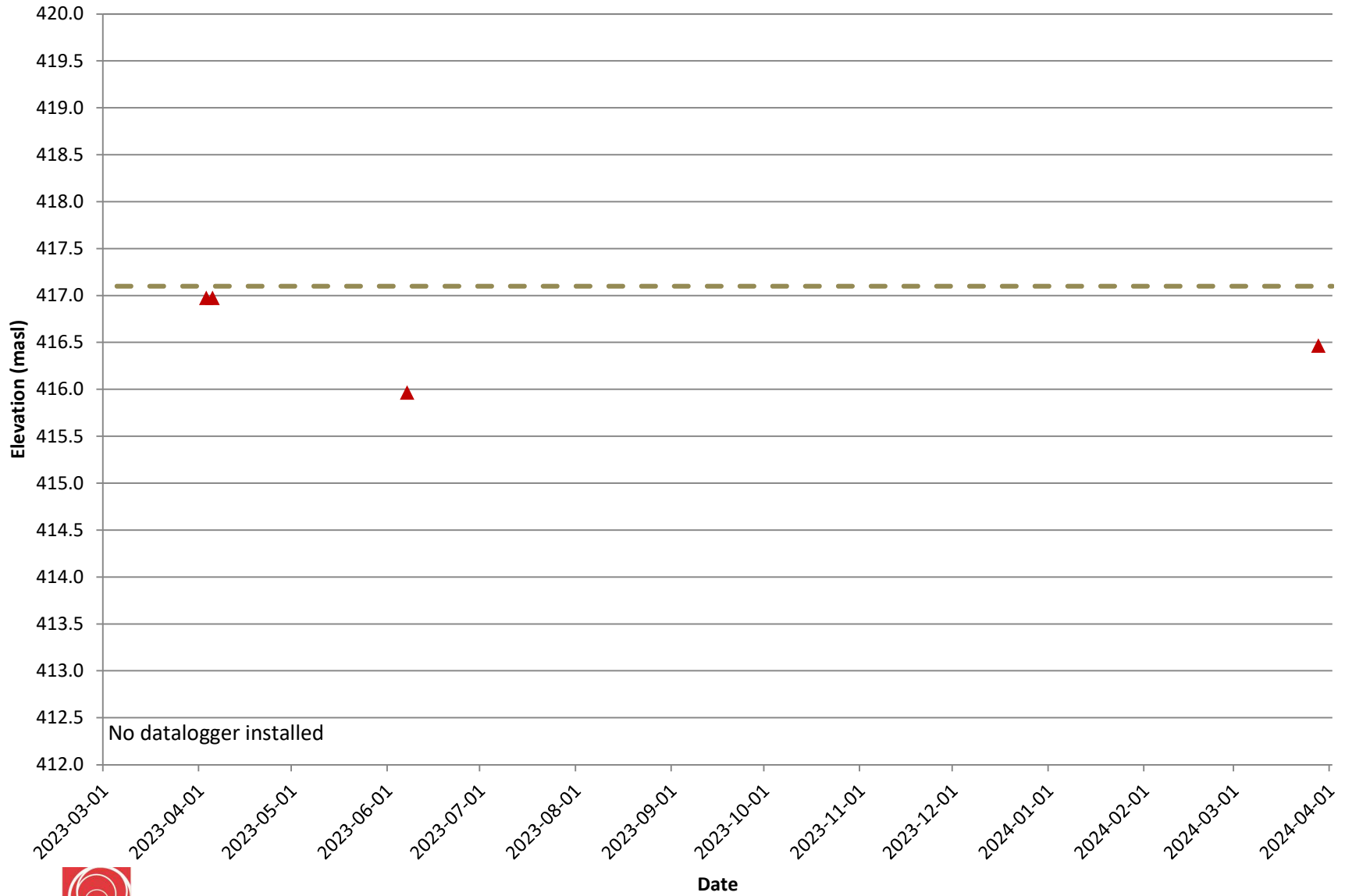
## **Appendix F Groundwater Hydrographs**

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### Chart 1: Hydrograph of MW1



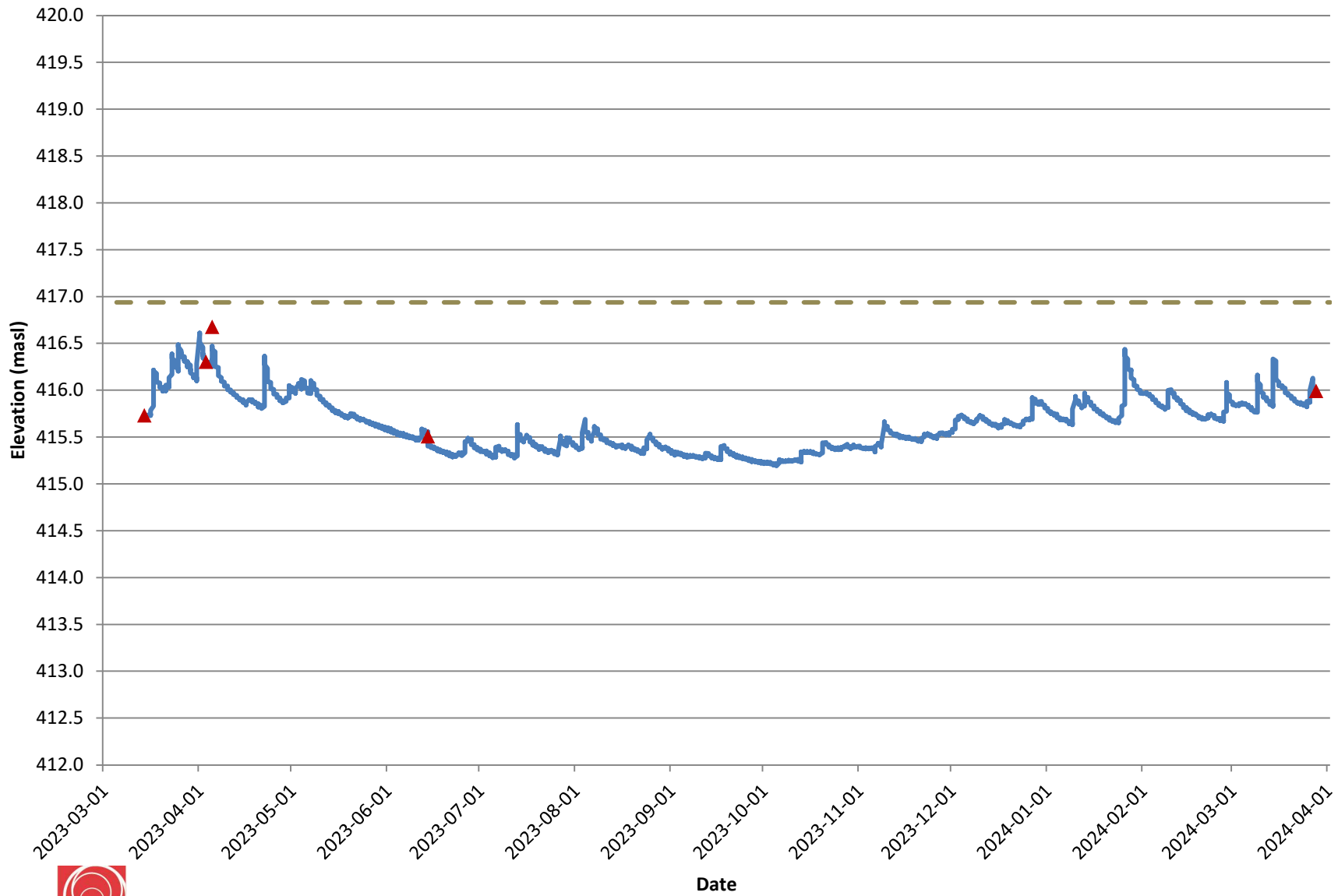
### Chart 2: Hydrograph of MW2



▲ Manual Readings

--- Ground Surface

### Chart 3: Hydrograph of MW3

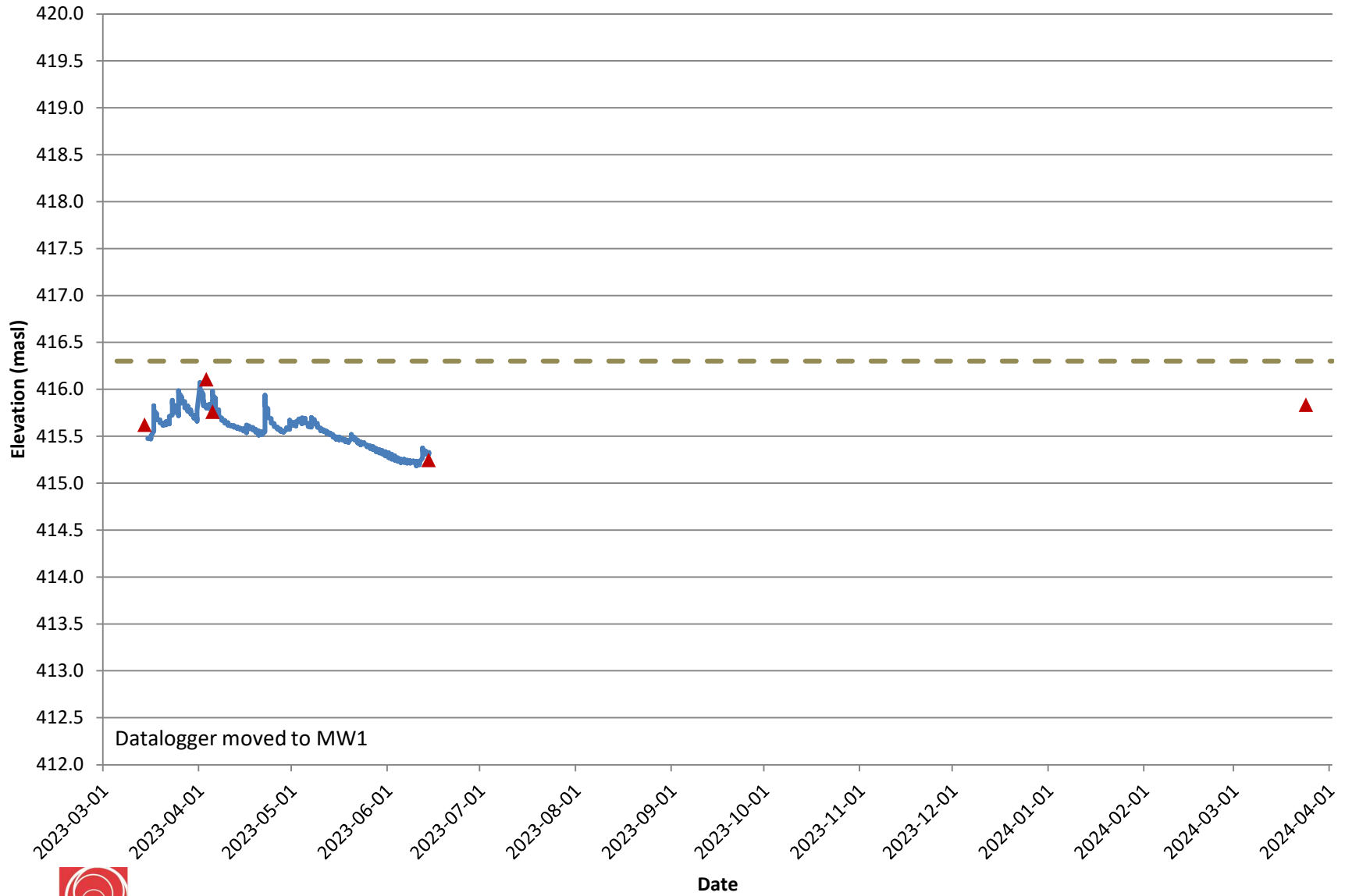


— Groundwater Level

▲ Manual Readings

- - - Ground Surface

### Chart 4: Hydrograph of MW4

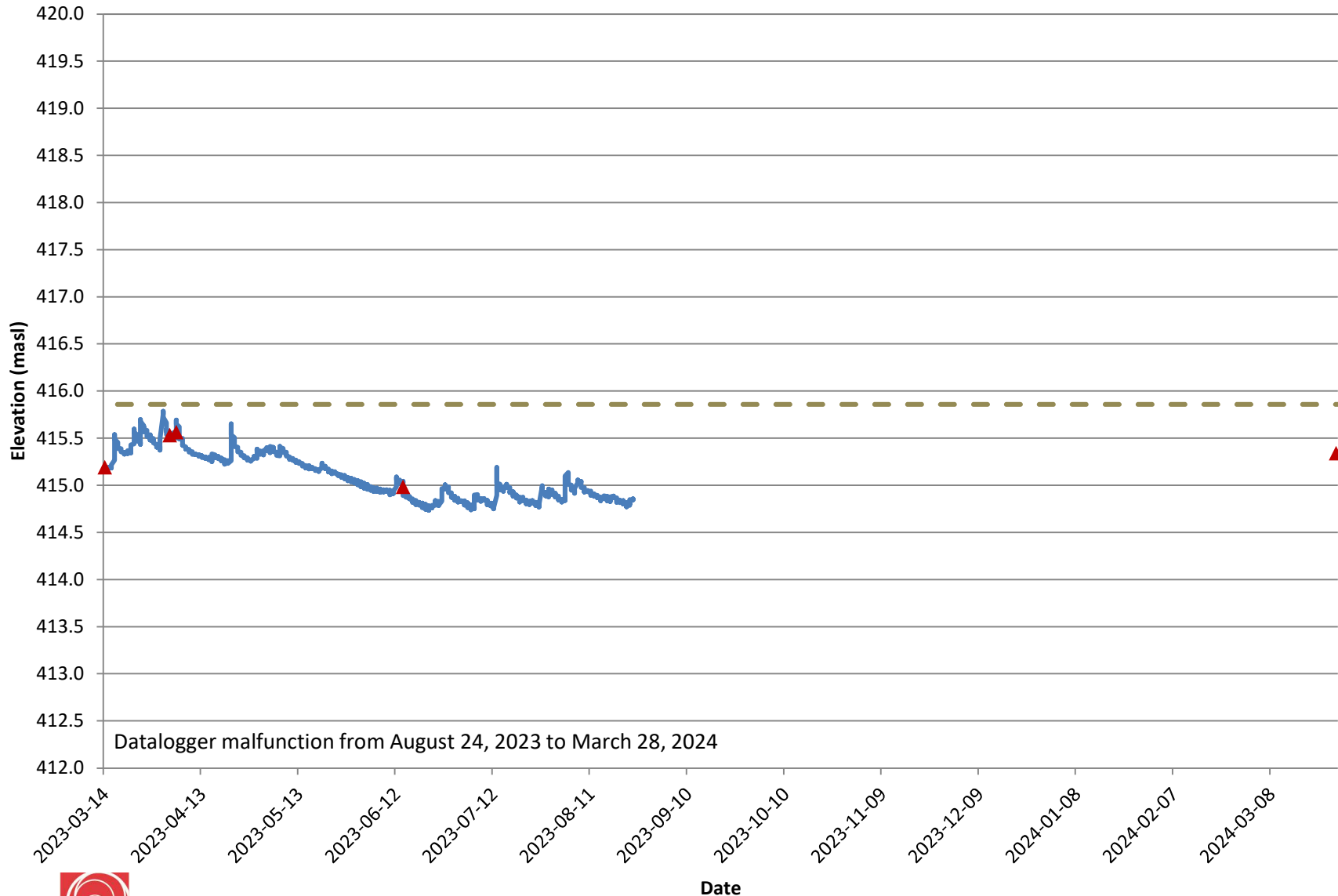


— Groundwater Level

▲ Manual Readings

- - - Ground Surface

### Chart 5: Hydrograph of MW5



Datalogger malfunction from August 24, 2023 to March 28, 2024



— Groundwater Level

▲ Manual Readings

- - - Ground Surface



## **Appendix G Certificates of Analysis for Groundwater and Surface Water Quality Testing**

---



Your Project #: 122025-01  
 Site Location: 79 SIDEROAD 19, FERGUS  
 Your C.O.C. #: n/a

**Attention: Mark Ongarato**

GM BluePlan Engineering Limited  
 650 Woodlawn Rd W  
 Block C, Unit 2  
 Guelph, ON  
 CANADA N1K 1B8

**Report Date: 2023/04/12**  
 Report #: R7584726  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C394527**

**Received: 2023/04/04, 16:24**

Sample Matrix: Water  
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2023/04/06	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2023/04/10	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	1	N/A	2023/04/10	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	1	N/A	2023/04/06	CAM SOP-00414	SM 23 2510 m
Hardness (calculated as CaCO3)	1	N/A	2023/04/12	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals Analysis by ICP	1	2023/04/05	2023/04/12	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	2023/04/06	2023/04/06	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2023/04/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	1	N/A	2023/04/06	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2023/04/05	2023/04/06	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2023/04/06	CAM SOP-00461	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2023/04/12		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2023/04/12		Auto Calc
Sulphate by Automated Turbidimetry	1	N/A	2023/04/06	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids (TDS calc)	1	N/A	2023/04/12		Auto Calc
Total Organic Carbon (TOC) (2)	1	N/A	2023/04/05	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2023/04/05	2023/04/06	CAM SOP-00407	SM 23 4500-P I
Turbidity	1	N/A	2023/04/05	CAM SOP-00417	SM 23 2130 B m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or



Your Project #: 122025-01  
Site Location: 79 SIDEROAD 19, FERGUS  
Your C.O.C. #: n/a

**Attention: Mark Ongarato**

GM BluePlan Engineering Limited  
650 Woodlawn Rd W  
Block C, Unit 2  
Guelph, ON  
CANADA N1K 1B8

**Report Date: 2023/04/12**  
Report #: R7584726  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C394527**

**Received: 2023/04/04, 16:24**

implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:

Ashton Gibson, Project Manager  
Email: Ashton.Gibson@bureauveritas.com  
Phone# (905)817-5765

=====  
This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU  
VERITAS

Bureau Veritas Job #: C394527

Report Date: 2023/04/12

GM BluePlan Engineering Limited

Client Project #: 122025-01

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

### RCAP - SURFACE WATER (WATER)

Bureau Veritas ID			VLU823			VLU823		
Sampling Date			2023/04/03 14:00			2023/04/03 14:00		
COC Number			n/a			n/a		
	UNITS	Criteria	MW1	RDL	QC Batch	MW1 Lab-Dup	RDL	QC Batch
<b>Calculated Parameters</b>								
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	310	1.0	8591908			
Calculated TDS	mg/L	-	720	1.0	8591913			
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	2.2	1.0	8591908			
Hardness (CaCO3)	mg/L	-	420	1.0	8591910			
Langelier Index (@ 20C)	N/A	-	0.978		8591911			
Langelier Index (@ 4C)	N/A	-	0.731		8591912			
Saturation pH (@ 20C)	N/A	-	6.90		8591911			
Saturation pH (@ 4C)	N/A	-	7.15		8591912			
<b>Inorganics</b>								
Total Ammonia-N	mg/L	-	0.074	0.050	8593787			
Conductivity	umho/cm	-	1300	1.0	8593085	1300	1.0	8593085
Total Organic Carbon (TOC)	mg/L	-	2.6	0.40	8593415			
Orthophosphate (P)	mg/L	-	<0.010	0.010	8593028			
pH	pH	6.5:8.5	7.88		8593090	7.90		8593090
Total Phosphorus	mg/L	0.01	<b>1.4</b>	0.004	8592119			
Dissolved Sulphate (SO4)	mg/L	-	58	1.0	8593046			
Turbidity	NTU	-	28	0.1	8591998			
Alkalinity (Total as CaCO3)	mg/L	-	310	1.0	8593077	320	1.0	8593077
Dissolved Chloride (Cl-)	mg/L	-	190	1.0	8593055			
Nitrite (N)	mg/L	-	<0.010	0.010	8593108			
Nitrate (N)	mg/L	-	1.47	0.10	8593108			
<b>Metals</b>								
Dissolved Calcium (Ca)	mg/L	-	130	0.05	8593616	130	0.05	8593616
Dissolved Magnesium (Mg)	mg/L	-	25	0.05	8593616	24	0.05	8593616
Dissolved Potassium (K)	mg/L	-	1	1	8593616	1	1	8593616
Dissolved Sodium (Na)	mg/L	-	110	0.5	8593616	110	0.5	8593616
Total Aluminum (Al)	ug/L	-	5.4	4.9	8594595			
Total Antimony (Sb)	ug/L	20	<0.50	0.50	8594595			
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: Ontario Provincial Water Quality Objectives								
Ref. to MOEE Water Management document dated Feb.1999								



**RCAP - SURFACE WATER (WATER)**

Bureau Veritas ID			VLU823			VLU823		
Sampling Date			2023/04/03 14:00			2023/04/03 14:00		
COC Number			n/a			n/a		
	UNITS	Criteria	MW1	RDL	QC Batch	MW1 Lab-Dup	RDL	QC Batch
Total Arsenic (As)	ug/L	100	<1.0	1.0	8594595			
Total Barium (Ba)	ug/L	-	70	2.0	8594595			
Total Beryllium (Be)	ug/L	11	<0.40	0.40	8594595			
Total Boron (B)	ug/L	200	21	10	8594595			
Total Cadmium (Cd)	ug/L	0.2	<0.090	0.090	8594595			
Total Calcium (Ca)	ug/L	-	130000	200	8594595			
Total Chromium (Cr)	ug/L	-	<5.0	5.0	8594595			
Total Cobalt (Co)	ug/L	0.9	<0.50	0.50	8594595			
Total Copper (Cu)	ug/L	5	1.5	0.90	8594595			
Total Iron (Fe)	ug/L	300	<100	100	8594595			
Total Lead (Pb)	ug/L	5	<0.50	0.50	8594595			
Total Magnesium (Mg)	ug/L	-	25000	50	8594595			
Total Manganese (Mn)	ug/L	-	42	2.0	8594595			
Total Molybdenum (Mo)	ug/L	40	<0.50	0.50	8594595			
Total Nickel (Ni)	ug/L	25	<1.0	1.0	8594595			
Total Potassium (K)	ug/L	-	1200	200	8594595			
Total Selenium (Se)	ug/L	100	<2.0	2.0	8594595			
Total Silicon (Si)	ug/L	-	4900	50	8594595			
Total Silver (Ag)	ug/L	0.1	<0.090	0.090	8594595			
Total Sodium (Na)	ug/L	-	110000	100	8594595			
Total Strontium (Sr)	ug/L	-	230	1.0	8594595			
Total Thallium (Tl)	ug/L	0.3	<0.050	0.050	8594595			
Total Titanium (Ti)	ug/L	-	<5.0	5.0	8594595			
Total Uranium (U)	ug/L	5	1.1	0.10	8594595			
Total Vanadium (V)	ug/L	6	<0.50	0.50	8594595			
Total Zinc (Zn)	ug/L	30	<5.0	5.0	8594595			
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: Ontario Provincial Water Quality Objectives								
Ref. to MOEE Water Management document dated Feb.1999								



BUREAU  
VERITAS

Bureau Veritas Job #: C394527  
Report Date: 2023/04/12

GM BluePlan Engineering Limited  
Client Project #: 122025-01  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### TEST SUMMARY

**Bureau Veritas ID:** VLU823  
**Sample ID:** MW1  
**Matrix:** Water

**Collected:** 2023/04/03  
**Shipped:**  
**Received:** 2023/04/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8593077	N/A	2023/04/06	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8591908	N/A	2023/04/10	Automated Statchk
Chloride by Automated Colourimetry	KONE	8593055	N/A	2023/04/10	Alina Dobreanu
Conductivity	AT	8593085	N/A	2023/04/06	Kien Tran
Hardness (calculated as CaCO3)		8591910	N/A	2023/04/12	Automated Statchk
Lab Filtered Metals Analysis by ICP	ICP	8593616	2023/04/05	2023/04/12	Suban Kanapathipplai
Total Metals Analysis by ICPMS	ICP/MS	8594595	2023/04/06	2023/04/06	Arefa Dabhad
Total Ammonia-N	LACH/NH4	8593787	N/A	2023/04/10	Shivani Shivani
Nitrate & Nitrite as Nitrogen in Water	LACH	8593108	N/A	2023/04/06	Viorica Rotaru
pH	AT	8593090	2023/04/05	2023/04/06	Kien Tran
Orthophosphate	KONE	8593028	N/A	2023/04/06	Alina Dobreanu
Sat. pH and Langelier Index (@ 20C)	CALC	8591911	N/A	2023/04/12	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8591912	N/A	2023/04/12	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8593046	N/A	2023/04/06	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	8591913	N/A	2023/04/12	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8593415	N/A	2023/04/05	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8592119	2023/04/05	2023/04/06	Prgya Panchal
Turbidity	AT	8591998	N/A	2023/04/05	Kien Tran

**Bureau Veritas ID:** VLU823 Dup  
**Sample ID:** MW1  
**Matrix:** Water

**Collected:** 2023/04/03  
**Shipped:**  
**Received:** 2023/04/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8593077	N/A	2023/04/06	Kien Tran
Conductivity	AT	8593085	N/A	2023/04/06	Kien Tran
Lab Filtered Metals Analysis by ICP	ICP	8593616	2023/04/05	2023/04/12	Suban Kanapathipplai
pH	AT	8593090	2023/04/05	2023/04/06	Kien Tran



**BUREAU  
VERITAS**

Bureau Veritas Job #: C394527  
Report Date: 2023/04/12

GM BluePlan Engineering Limited  
Client Project #: 122025-01  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C394527

Report Date: 2023/04/12

### QUALITY ASSURANCE REPORT

GM BluePlan Engineering Limited

Client Project #: 122025-01

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8591998	Turbidity	2023/04/05			101	80 - 120	<0.1	NTU	1.5	20		
8592119	Total Phosphorus	2023/04/06	99	80 - 120	106	80 - 120	<0.004	mg/L	9.7	20	106	80 - 120
8593028	Orthophosphate (P)	2023/04/06	98	75 - 125	95	80 - 120	<0.010	mg/L	NC	20		
8593046	Dissolved Sulphate (SO4)	2023/04/06	NC	75 - 125	96	80 - 120	<1.0	mg/L	0.11	20		
8593055	Dissolved Chloride (Cl-)	2023/04/10	NC	80 - 120	100	80 - 120	<1.0	mg/L	2.6	20		
8593077	Alkalinity (Total as CaCO3)	2023/04/06			99	85 - 115	<1.0	mg/L	0.15	20		
8593085	Conductivity	2023/04/06			101	85 - 115	<1.0	umho/cm	0.15	25		
8593090	pH	2023/04/06			102	98 - 103			0.23	N/A		
8593108	Nitrate (N)	2023/04/06	94	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
8593108	Nitrite (N)	2023/04/06	103	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
8593415	Total Organic Carbon (TOC)	2023/04/05	94	80 - 120	97	80 - 120	<0.40	mg/L	0.17	20		
8593616	Dissolved Calcium (Ca)	2023/04/12	NC	80 - 120	97	80 - 120	<0.05	mg/L	1.2	25		
8593616	Dissolved Magnesium (Mg)	2023/04/12	NC	80 - 120	99	80 - 120	<0.05	mg/L	2.1	25		
8593616	Dissolved Potassium (K)	2023/04/12	100	80 - 120	100	80 - 120	<1	mg/L	0.78	25		
8593616	Dissolved Sodium (Na)	2023/04/12	NC	80 - 120	101	80 - 120	<0.5	mg/L	1.1	25		
8593787	Total Ammonia-N	2023/04/10	102	75 - 125	103	80 - 120	<0.050	mg/L	NC	20		
8594595	Total Aluminum (Al)	2023/04/06	107	80 - 120	103	80 - 120	<4.9	ug/L	2.5	20		
8594595	Total Antimony (Sb)	2023/04/06	107	80 - 120	105	80 - 120	<0.50	ug/L				
8594595	Total Arsenic (As)	2023/04/06	103	80 - 120	102	80 - 120	<1.0	ug/L				
8594595	Total Barium (Ba)	2023/04/06	100	80 - 120	101	80 - 120	<2.0	ug/L				
8594595	Total Beryllium (Be)	2023/04/06	108	80 - 120	102	80 - 120	<0.40	ug/L				
8594595	Total Boron (B)	2023/04/06	102	80 - 120	99	80 - 120	<10	ug/L				
8594595	Total Cadmium (Cd)	2023/04/06	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
8594595	Total Calcium (Ca)	2023/04/06	NC	80 - 120	104	80 - 120	<200	ug/L				
8594595	Total Chromium (Cr)	2023/04/06	96	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
8594595	Total Cobalt (Co)	2023/04/06	101	80 - 120	99	80 - 120	<0.50	ug/L				
8594595	Total Copper (Cu)	2023/04/06	104	80 - 120	101	80 - 120	<0.90	ug/L	3.3	20		
8594595	Total Iron (Fe)	2023/04/06	100	80 - 120	100	80 - 120	<100	ug/L	2.8	20		
8594595	Total Lead (Pb)	2023/04/06	97	80 - 120	98	80 - 120	<0.50	ug/L	0.53	20		
8594595	Total Magnesium (Mg)	2023/04/06	94	80 - 120	99	80 - 120	<50	ug/L				





BUREAU  
VERITAS

Bureau Veritas Job #: C394527

Report Date: 2023/04/12

### QUALITY ASSURANCE REPORT(CONT'D)

GM BluePlan Engineering Limited

Client Project #: 122025-01

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8594595	Total Manganese (Mn)	2023/04/06	99	80 - 120	98	80 - 120	<2.0	ug/L				
8594595	Total Molybdenum (Mo)	2023/04/06	107	80 - 120	104	80 - 120	<0.50	ug/L				
8594595	Total Nickel (Ni)	2023/04/06	97	80 - 120	97	80 - 120	<1.0	ug/L	5.6	20		
8594595	Total Potassium (K)	2023/04/06	102	80 - 120	100	80 - 120	<200	ug/L				
8594595	Total Selenium (Se)	2023/04/06	104	80 - 120	104	80 - 120	<2.0	ug/L				
8594595	Total Silicon (Si)	2023/04/06	100	80 - 120	101	80 - 120	<50	ug/L				
8594595	Total Silver (Ag)	2023/04/06	100	80 - 120	101	80 - 120	<0.090	ug/L				
8594595	Total Sodium (Na)	2023/04/06	NC	80 - 120	99	80 - 120	<100	ug/L				
8594595	Total Strontium (Sr)	2023/04/06	NC	80 - 120	95	80 - 120	<1.0	ug/L				
8594595	Total Thallium (Tl)	2023/04/06	100	80 - 120	100	80 - 120	<0.050	ug/L				
8594595	Total Titanium (Ti)	2023/04/06	99	80 - 120	101	80 - 120	<5.0	ug/L				
8594595	Total Uranium (U)	2023/04/06	100	80 - 120	96	80 - 120	<0.10	ug/L				
8594595	Total Vanadium (V)	2023/04/06	99	80 - 120	97	80 - 120	<0.50	ug/L				
8594595	Total Zinc (Zn)	2023/04/06	101	80 - 120	102	80 - 120	<5.0	ug/L	2.4	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU  
VERITAS

Bureau Veritas Job #: C394527  
Report Date: 2023/04/12

GM BluePlan Engineering Limited  
Client Project #: 122025-01  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

\_\_\_\_\_  
Anastassia Hamanov, Scientific Specialist

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C394527  
Report Date: 2023/04/12

GM BluePlan Engineering Limited  
Client Project #: 122025-01  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

**Exceedance Summary Table – Prov. Water Quality Obj.  
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW1	VLU823-04	Total Phosphorus	0.01	1.4	0.004	mg/L
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: 122025-1  
 Your C.O.C. #: 724369-25-01

**Attention: Joanna Olesiuk**

GM BluePlan Engineering Limited  
 650 Woodlawn Rd W  
 Block C, Unit 2  
 Guelph, ON  
 CANADA N1K 1B8

**Report Date: 2023/06/16**  
 Report #: R7674874  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C3G6157**

**Received: 2023/06/08, 15:24**

Sample Matrix: Water  
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2023/06/14	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2023/06/14	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	1	N/A	2023/06/13	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	1	N/A	2023/06/14	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	1	N/A	2023/06/13	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	1	N/A	2023/06/15	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2023/06/13	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	1	N/A	2023/06/15		
Anion and Cation Sum	1	N/A	2023/06/15		
Total Ammonia-N	1	N/A	2023/06/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	1	N/A	2023/06/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2023/06/12	2023/06/14	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2023/06/12	CAM SOP-00461	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2023/06/15		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2023/06/15		Auto Calc
Sulphate by Automated Turbidimetry	1	N/A	2023/06/13	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids (TDS calc)	1	N/A	2023/06/15		Auto Calc

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.



Your Project #: 122025-1  
Your C.O.C. #: 724369-25-01

**Attention: Joanna Olesiuk**

GM BluePlan Engineering Limited  
650 Woodlawn Rd W  
Block C, Unit 2  
Guelph, ON  
CANADA N1K 1B8

**Report Date: 2023/06/16**  
Report #: R7674874  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C3G6157**

**Received: 2023/06/08, 15:24**

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:

Ashton Gibson, Project Manager  
Email: Ashton.Gibson@bureauveritas.com  
Phone# (905)817-5765

=====  
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BUREAU  
VERITAS

Bureau Veritas Job #: C3G6157  
Report Date: 2023/06/16

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Sampler Initials: MO

### RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID			WAW458		
Sampling Date			2023/06/07 17:20		
COC Number			724369-25-01		
	UNITS	Criteria	MW2	RDL	QC Batch
<b>Calculated Parameters</b>					
Anion Sum	me/L	-	9.69	N/A	8715803
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	350	1.0	8717483
Calculated TDS	mg/L	-	530	1.0	8715799
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	2.9	1.0	8717483
Cation Sum	me/L	-	10.2	N/A	8715803
Hardness (CaCO3)	mg/L	-	400	1.0	8716062
Ion Balance (% Difference)	%	-	2.75	N/A	8715802
Langelier Index (@ 20C)	N/A	-	1.09		8715800
Langelier Index (@ 4C)	N/A	-	0.841		8715801
Saturation pH (@ 20C)	N/A	-	6.86		8715800
Saturation pH (@ 4C)	N/A	-	7.10		8715801
<b>Inorganics</b>					
Total Ammonia-N	mg/L	-	0.095	0.050	8720542
Conductivity	umho/cm	-	950	1.0	8719642
Dissolved Organic Carbon	mg/L	-	1.6	0.40	8719925
Orthophosphate (P)	mg/L	-	<0.010	0.010	8720065
pH	pH	6.5:8.5	7.94		8719640
Dissolved Sulphate (SO4)	mg/L	-	23	1.0	8719931
Alkalinity (Total as CaCO3)	mg/L	-	350	1.0	8719643
Dissolved Chloride (Cl-)	mg/L	-	57	1.0	8719927
Nitrite (N)	mg/L	-	<0.010	0.010	8719608
Nitrate (N)	mg/L	-	7.56	0.10	8719608
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	-	<4.9	4.9	8720437
Dissolved Antimony (Sb)	ug/L	20	<0.50	0.50	8720437
Dissolved Arsenic (As)	ug/L	100	<1.0	1.0	8720437
Dissolved Barium (Ba)	ug/L	-	37	2.0	8720437
Dissolved Beryllium (Be)	ug/L	11	<0.40	0.40	8720437
Dissolved Bismuth (Bi)	ug/L	-	<1.0	1.0	8720437
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					
N/A = Not Applicable					



**RCAP - COMPREHENSIVE (WATER)**

Bureau Veritas ID			WAW458		
Sampling Date			2023/06/07 17:20		
COC Number			724369-25-01		
	UNITS	Criteria	MW2	RDL	QC Batch
Dissolved Boron (B)	ug/L	200	34	10	8720437
Dissolved Cadmium (Cd)	ug/L	0.2	<0.090	0.090	8720437
Dissolved Calcium (Ca)	ug/L	-	120000	200	8720437
Dissolved Chromium (Cr)	ug/L	-	<5.0	5.0	8720437
Dissolved Cobalt (Co)	ug/L	0.9	<0.50	0.50	8720437
Dissolved Copper (Cu)	ug/L	5	1.4	0.90	8720437
Dissolved Iron (Fe)	ug/L	300	<100	100	8720437
Dissolved Lead (Pb)	ug/L	5	0.58	0.50	8720437
Dissolved Lithium (Li)	ug/L	-	<5.0	5.0	8720437
Dissolved Magnesium (Mg)	ug/L	-	26000	50	8720437
Dissolved Manganese (Mn)	ug/L	-	<2.0	2.0	8720437
Dissolved Molybdenum (Mo)	ug/L	40	<0.50	0.50	8720437
Dissolved Nickel (Ni)	ug/L	25	<1.0	1.0	8720437
Dissolved Phosphorus (P)	ug/L	-	<100	100	8720437
Dissolved Potassium (K)	ug/L	-	1200	200	8720437
Dissolved Selenium (Se)	ug/L	100	<2.0	2.0	8720437
Dissolved Silicon (Si)	ug/L	-	5200	50	8720437
Dissolved Silver (Ag)	ug/L	0.1	<0.090	0.090	8720437
Dissolved Sodium (Na)	ug/L	-	51000	100	8720437
Dissolved Strontium (Sr)	ug/L	-	210	1.0	8720437
Dissolved Tellurium (Te)	ug/L	-	<1.0	1.0	8720437
Dissolved Thallium (Tl)	ug/L	0.3	<0.050	0.050	8720437
Dissolved Tin (Sn)	ug/L	-	<1.0	1.0	8720437
Dissolved Titanium (Ti)	ug/L	-	<5.0	5.0	8720437
Dissolved Tungsten (W)	ug/L	30	<1.0	1.0	8720437
Dissolved Uranium (U)	ug/L	5	0.44	0.10	8720437
Dissolved Vanadium (V)	ug/L	6	<0.50	0.50	8720437
Dissolved Zinc (Zn)	ug/L	30	<5.0	5.0	8720437
Dissolved Zirconium (Zr)	ug/L	4	<1.0	1.0	8720437
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					





BUREAU  
VERITAS

Bureau Veritas Job #: C3G6157  
Report Date: 2023/06/16

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Sampler Initials: MO

### TEST SUMMARY

**Bureau Veritas ID:** WAW458  
**Sample ID:** MW2  
**Matrix:** Water

**Collected:** 2023/06/07  
**Shipped:**  
**Received:** 2023/06/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8719643	N/A	2023/06/14	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8717483	N/A	2023/06/14	Automated Statchk
Chloride by Automated Colourimetry	KONE	8719927	N/A	2023/06/13	Massarat Jan
Conductivity	AT	8719642	N/A	2023/06/14	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8719925	N/A	2023/06/13	Gyulshen Idriz
Hardness (calculated as CaCO <sub>3</sub> )		8716062	N/A	2023/06/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	8720437	N/A	2023/06/13	Nan Raykha
Ion Balance (% Difference)	CALC	8715802	N/A	2023/06/15	Automated Statchk
Anion and Cation Sum	CALC	8715803	N/A	2023/06/15	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	8720542	N/A	2023/06/13	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8719608	N/A	2023/06/12	Chandra Nandlal
pH	AT	8719640	2023/06/12	2023/06/14	Kien Tran
Orthophosphate	KONE	8720065	N/A	2023/06/12	Massarat Jan
Sat. pH and Langelier Index (@ 20C)	CALC	8715800	N/A	2023/06/15	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8715801	N/A	2023/06/15	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8719931	N/A	2023/06/13	Massarat Jan
Total Dissolved Solids (TDS calc)	CALC	8715799	N/A	2023/06/15	Automated Statchk



**BUREAU  
VERITAS**

Bureau Veritas Job #: C3G6157  
Report Date: 2023/06/16

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Sampler Initials: MO

### GENERAL COMMENTS

2023/06/12 - Existing Metals analysis replaced with Dissolved Metals analysis per client Joanna Olesiuk's request.

**Results relate only to the items tested.**



BUREAU  
VERITAS

Bureau Veritas Job #: C3G6157

Report Date: 2023/06/16

### QUALITY ASSURANCE REPORT

GM BluePlan Engineering Limited

Client Project #: 122025-1

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8719608	Nitrate (N)	2023/06/12	96	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
8719608	Nitrite (N)	2023/06/12	103	80 - 120	102	80 - 120	<0.010	mg/L	NC	20
8719640	pH	2023/06/13			102	98 - 103			0.053	N/A
8719642	Conductivity	2023/06/13			101	85 - 115	<1.0	umho/cm	0.63	10
8719643	Alkalinity (Total as CaCO3)	2023/06/13			96	85 - 115	<1.0	mg/L	1.3	20
8719925	Dissolved Organic Carbon	2023/06/13	93	80 - 120	96	80 - 120	<0.40	mg/L	6.1	20
8719927	Dissolved Chloride (Cl-)	2023/06/13	94	80 - 120	95	80 - 120	<1.0	mg/L	0.93	20
8719931	Dissolved Sulphate (SO4)	2023/06/13	91	75 - 125	95	80 - 120	<1.0	mg/L	5.1	20
8720065	Orthophosphate (P)	2023/06/12	92	75 - 125	93	80 - 120	<0.010	mg/L	NC	20
8720437	Dissolved Aluminum (Al)	2023/06/13	103	80 - 120	101	80 - 120	<4.9	ug/L	NC	20
8720437	Dissolved Antimony (Sb)	2023/06/13	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8720437	Dissolved Arsenic (As)	2023/06/13	103	80 - 120	100	80 - 120	<1.0	ug/L	1.3	20
8720437	Dissolved Barium (Ba)	2023/06/13	103	80 - 120	97	80 - 120	<2.0	ug/L	0.31	20
8720437	Dissolved Beryllium (Be)	2023/06/13	96	80 - 120	96	80 - 120	<0.40	ug/L	NC	20
8720437	Dissolved Bismuth (Bi)	2023/06/13	96	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
8720437	Dissolved Boron (B)	2023/06/13	92	80 - 120	95	80 - 120	<10	ug/L	1.0	20
8720437	Dissolved Cadmium (Cd)	2023/06/13	99	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
8720437	Dissolved Calcium (Ca)	2023/06/13	NC	80 - 120	95	80 - 120	<200	ug/L	2.8	20
8720437	Dissolved Chromium (Cr)	2023/06/13	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
8720437	Dissolved Cobalt (Co)	2023/06/13	99	80 - 120	99	80 - 120	<0.50	ug/L	2.0	20
8720437	Dissolved Copper (Cu)	2023/06/13	99	80 - 120	98	80 - 120	<0.90	ug/L	1.8	20
8720437	Dissolved Iron (Fe)	2023/06/13	104	80 - 120	103	80 - 120	<100	ug/L	0.68	20
8720437	Dissolved Lead (Pb)	2023/06/13	97	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8720437	Dissolved Lithium (Li)	2023/06/13	100	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
8720437	Dissolved Magnesium (Mg)	2023/06/13	NC	80 - 120	97	80 - 120	<50	ug/L	0.89	20
8720437	Dissolved Manganese (Mn)	2023/06/13	104	80 - 120	95	80 - 120	<2.0	ug/L	0.72	20
8720437	Dissolved Molybdenum (Mo)	2023/06/13	107	80 - 120	104	80 - 120	<0.50	ug/L	0.26	20
8720437	Dissolved Nickel (Ni)	2023/06/13	99	80 - 120	99	80 - 120	<1.0	ug/L	1.8	20
8720437	Dissolved Phosphorus (P)	2023/06/13	105	80 - 120	111	80 - 120	<100	ug/L	NC	20
8720437	Dissolved Potassium (K)	2023/06/13	101	80 - 120	98	80 - 120	<200	ug/L	0.89	20
8720437	Dissolved Selenium (Se)	2023/06/13	100	80 - 120	99	80 - 120	<2.0	ug/L	NC	20



BUREAU  
VERITAS

Bureau Veritas Job #: C3G6157

Report Date: 2023/06/16

### QUALITY ASSURANCE REPORT(CONT'D)

GM BluePlan Engineering Limited

Client Project #: 122025-1

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8720437	Dissolved Silicon (Si)	2023/06/13	104	80 - 120	104	80 - 120	<50	ug/L	1.3	20
8720437	Dissolved Silver (Ag)	2023/06/13	86	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8720437	Dissolved Sodium (Na)	2023/06/13	NC	80 - 120	97	80 - 120	<100	ug/L	0.75	20
8720437	Dissolved Strontium (Sr)	2023/06/13	108	80 - 120	97	80 - 120	<1.0	ug/L	0.80	20
8720437	Dissolved Tellurium (Te)	2023/06/13	102	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8720437	Dissolved Thallium (Tl)	2023/06/13	100	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
8720437	Dissolved Tin (Sn)	2023/06/13	103	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
8720437	Dissolved Titanium (Ti)	2023/06/13	106	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
8720437	Dissolved Tungsten (W)	2023/06/13	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
8720437	Dissolved Uranium (U)	2023/06/13	102	80 - 120	98	80 - 120	<0.10	ug/L	2.8	20
8720437	Dissolved Vanadium (V)	2023/06/13	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8720437	Dissolved Zinc (Zn)	2023/06/13	100	80 - 120	100	80 - 120	<5.0	ug/L	2.0	20
8720437	Dissolved Zirconium (Zr)	2023/06/13	106	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8720542	Total Ammonia-N	2023/06/13	98	75 - 125	102	80 - 120	<0.050	mg/L	12	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU  
VERITAS

Bureau Veritas Job #: C3G6157  
Report Date: 2023/06/16

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Sampler Initials: MO

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

\_\_\_\_\_  
Anastassia Hamanov, Scientific Specialist

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Bureau Veritas Laboratories  
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHA'

08-Jun-23 15:24

<b>INVOICE TO:</b>		<b>REPORT TO:</b>		<b>PROJECT INFORMATION:</b>	
Company Name: #1067 GM BluePlan Engineering Limited	Company Name: Joe Rotondi / GM BluePlan	Attention: Joanna Olesiuk / Mark Ongarato	Attention: Joanna Olesiuk / Mark Ongarato	Quotation #: B47865	Ashton Gibson
Address: 650 Woodlawn Rd W Block C, Unit 2 Guelph ON N1K 1B8	Address: 650 Woodlawn Rd W Block C, Unit 2 Guelph ON N1K 1B8	Address: 650 Woodlawn Rd W Block C, Unit 2 Guelph ON N1K 1B8	Address: 650 Woodlawn Rd W Block C, Unit 2 Guelph ON N1K 1B8	P.O. #: 122025-1	C3G6157
Tel: (519) 824-8150	Fax: (519) 824-8089	Tel: (519) 824-8150 Ext: 253	Fax: (519) 824-8089	Project Name: RUK ENV-1280	Order #: 724369
Email: jrotondi@gmsby.com	info@gmblueplan.ca	Email: joanna.olesiuk@gmblueplan.ca, cory.young@gmbluepl		Site #: Mo	Project Manager: Ashton Gibson

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011)			Other Regulations		Special Instructions										Regular (Standard) TAT:			
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw	Field Filtered (please circle): Metals / Hg / Cr VI RCAP (Comp) Groundwater										<input type="checkbox"/> Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.			
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw											<input type="checkbox"/> MISA Municipality <input checked="" type="checkbox"/> PWQO <input type="checkbox"/> Other		<input type="checkbox"/> Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC																
Include Criteria on Certificate of Analysis (Y/N)? <u>Yes</u>																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix											# of Bottles	Comments		
1	MW2	23/06/07	17:20	Ground water	X										5			
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

RELINQUISHED BY: (Signature/Print) <i>M. Ongarato</i> / Mark Ongarato	Date: (YY/MM/DD) 23/06/08	Time 8:30	RECEIVED BY: (Signature/Print) <i>RAJ MAZANI</i>	Date: (YY/MM/DD) 2023/06/08	Time 15:24	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Receipt 8/11/10	Custody Seal Present	Intact	Yes/No <input checked="" type="checkbox"/>
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS. * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.							White: BV Labs Yellow: Client IN LIZ PACS				



**BUREAU  
VERITAS**

Bureau Veritas Job #: C3G6157  
Report Date: 2023/06/16

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Sampler Initials: MO

**Exceedance Summary Table – Prov. Water Quality Obj.  
Result Exceedances**

<b>Sample ID</b>	<b>Bureau Veritas ID</b>	<b>Parameter</b>	<b>Criteria</b>	<b>Result</b>	<b>DL</b>	<b>UNITS</b>
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



Your Project #: 122025-1  
 Site Location: 79 SIDEROAD 19, FERGUS

**Attention: Mark Ongarato**

GM BluePlan Engineering Limited  
 650 Woodlawn Rd W  
 Block C, Unit 2  
 Guelph, ON  
 CANADA N1K 1B8

**Report Date: 2023/03/22**  
 Report #: R7556078  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C373807**

**Received: 2023/03/15, 16:08**

Sample Matrix: Water  
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	4	N/A	2023/03/17	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	4	N/A	2023/03/20	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	4	N/A	2023/03/20	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	4	N/A	2023/03/17	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	3	N/A	2023/03/18	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	2	N/A	2023/03/20	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	1	N/A	2023/03/21	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	1	N/A	2023/03/22	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals Analysis by ICP	1	2023/03/17	2023/03/21	CAM SOP-00408	EPA 6010D m
Dissolved Metals by ICPMS	3	N/A	2023/03/20	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	2023/03/17	2023/03/20	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	2	N/A	2023/03/20		
Ion Balance (% Difference)	1	N/A	2023/03/21		
Anion and Cation Sum	2	N/A	2023/03/20		
Anion and Cation Sum	1	N/A	2023/03/21		
Total Ammonia-N	4	N/A	2023/03/20	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	4	N/A	2023/03/20	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	4	2023/03/17	2023/03/17	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	4	N/A	2023/03/20	CAM SOP-00461	SM 23 4500-P E m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2023/03/20		Auto Calc
Sat. pH and Langelier Index (@ 20C)	1	N/A	2023/03/21		Auto Calc
Sat. pH and Langelier Index (@ 20C)	1	N/A	2023/03/22		Auto Calc
Sat. pH and Langelier Index (@ 4C)	2	N/A	2023/03/20		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2023/03/21		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2023/03/22		Auto Calc
Sulphate by Automated Turbidimetry	4	N/A	2023/03/20	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids (TDS calc)	2	N/A	2023/03/20		Auto Calc





Your Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS

**Attention: Mark Ongarato**

GM BluePlan Engineering Limited  
650 Woodlawn Rd W  
Block C, Unit 2  
Guelph, ON  
CANADA N1K 1B8

**Report Date: 2023/03/22**  
Report #: R7556078  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C373807**

**Received: 2023/03/15, 16:08**

Sample Matrix: Water  
# Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Dissolved Solids (TDS calc)	1	N/A	2023/03/21		Auto Calc
Total Dissolved Solids (TDS calc)	1	N/A	2023/03/22		Auto Calc
Total Organic Carbon (TOC) (3)	1	N/A	2023/03/20	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2023/03/20	2023/03/20	CAM SOP-00407	SM 23 4500-P I
Turbidity	1	N/A	2023/03/17	CAM SOP-00417	SM 23 2130 B m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
- (2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS

**Attention: Mark Ongarato**

GM BluePlan Engineering Limited  
650 Woodlawn Rd W  
Block C, Unit 2  
Guelph, ON  
CANADA N1K 1B8

**Report Date: 2023/03/22**  
Report #: R7556078  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C373807**  
**Received: 2023/03/15, 16:08**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:  
Ashton Gibson, Project Manager  
Email: Ashton.Gibson@bureauveritas.com  
Phone# (905)817-5765

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This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID			VHK478			VHK478			VHK479		
Sampling Date			2023/03/14 12:30			2023/03/14 12:30			2023/03/14 13:25		
	UNITS	Criteria	MW3	RDL	QC Batch	MW3 Lab-Dup	RDL	QC Batch	MW4	RDL	QC Batch
<b>Calculated Parameters</b>											
Anion Sum	me/L	-	8.05	N/A	8556048				12.6	N/A	8556048
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	290	1.0	8555711				360	1.0	8555711
Calculated TDS	mg/L	-	490	1.0	8556049				700	1.0	8556049
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	2.0	1.0	8555711				2.2	1.0	8555711
Cation Sum	me/L	-	10.3	N/A	8556048				13.3	N/A	8556048
Hardness (CaCO3)	mg/L	-	410	1.0	8555710				460	1.0	8555710
Ion Balance (% Difference)	%	-	12.4	N/A	8556044				2.96	N/A	8556044
Langelier Index (@ 20C)	N/A	-	0.969		8557462				1.01		8557462
Langelier Index (@ 4C)	N/A	-	0.721		8557463				0.760		8557463
Saturation pH (@ 20C)	N/A	-	6.89		8557462				6.80		8557462
Saturation pH (@ 4C)	N/A	-	7.14		8557463				7.05		8557463
<b>Inorganics</b>											
Total Ammonia-N	mg/L	-	0.11	0.050	8559399				0.056	0.050	8559399
Conductivity	umho/cm	-	760	1.0	8559024				1300	1.0	8559024
Dissolved Organic Carbon	mg/L	-	1.8	0.40	8559712				1.8	0.40	8559712
Orthophosphate (P)	mg/L	-	<0.010	0.010	8559116	<0.010	0.010	8559116	<0.010	0.010	8559116
pH	pH	6.5:8.5	7.86		8559039				7.81		8559039
Dissolved Sulphate (SO4)	mg/L	-	49	1.0	8559126	49	1.0	8559126	50	1.0	8559126
Alkalinity (Total as CaCO3)	mg/L	-	290	1.0	8559028				370	1.0	8559028
Dissolved Chloride (Cl-)	mg/L	-	26	1.0	8559107	26	1.0	8559107	140	1.0	8559107
Nitrite (N)	mg/L	-	0.043	0.010	8559042				<0.010	0.010	8559042
Nitrate (N)	mg/L	-	5.66	0.10	8559042				4.70	0.10	8559042
Nitrate + Nitrite (N)	mg/L	-	5.71	0.10	8559042				4.70	0.10	8559042
<b>Metals</b>											
Dissolved Aluminum (Al)	ug/L	-	<4.9	4.9	8560470				<4.9	4.9	8560468
Dissolved Antimony (Sb)	ug/L	20	<0.50	0.50	8560470				<0.50	0.50	8560468
Dissolved Arsenic (As)	ug/L	100	<1.0	1.0	8560470				<1.0	1.0	8560468
Dissolved Barium (Ba)	ug/L	-	47	2.0	8560470				63	2.0	8560468
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											
Criteria: Ontario Provincial Water Quality Objectives											
Ref. to MOEE Water Management document dated Feb.1999											
N/A = Not Applicable											



BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID			VHK478			VHK478			VHK479		
Sampling Date			2023/03/14 12:30			2023/03/14 12:30			2023/03/14 13:25		
	UNITS	Criteria	MW3	RDL	QC Batch	MW3 Lab-Dup	RDL	QC Batch	MW4	RDL	QC Batch
Dissolved Beryllium (Be)	ug/L	11	<0.40	0.40	8560470				<0.40	0.40	8560468
Dissolved Boron (B)	ug/L	200	59	10	8560470				49	10	8560468
Dissolved Cadmium (Cd)	ug/L	0.2	<0.090	0.090	8560470				<0.090	0.090	8560468
Dissolved Calcium (Ca)	ug/L	-	130000	200	8560470				140000	200	8560468
Dissolved Chromium (Cr)	ug/L	-	<5.0	5.0	8560470				<5.0	5.0	8560468
Dissolved Cobalt (Co)	ug/L	0.9	<0.50	0.50	8560470				<0.50	0.50	8560468
Dissolved Copper (Cu)	ug/L	5	2.0	0.90	8560470				1.4	0.90	8560468
Dissolved Iron (Fe)	ug/L	300	<100	100	8560470				<100	100	8560468
Dissolved Lead (Pb)	ug/L	5	<0.50	0.50	8560470				<0.50	0.50	8560468
Dissolved Magnesium (Mg)	ug/L	-	22000	50	8560470				28000	50	8560468
Dissolved Manganese (Mn)	ug/L	-	33	2.0	8560470				17	2.0	8560468
Dissolved Molybdenum (Mo)	ug/L	40	1.3	0.50	8560470				<0.50	0.50	8560468
Dissolved Nickel (Ni)	ug/L	25	1.3	1.0	8560470				<1.0	1.0	8560468
Dissolved Phosphorus (P)	ug/L	-	<100	100	8560470				<100	100	8560468
Dissolved Potassium (K)	ug/L	-	2300	200	8560470				1700	200	8560468
Dissolved Selenium (Se)	ug/L	100	<2.0	2.0	8560470				<2.0	2.0	8560468
Dissolved Silicon (Si)	ug/L	-	5500	50	8560470				4900	50	8560468
Dissolved Silver (Ag)	ug/L	0.1	<0.090	0.090	8560470				<0.090	0.090	8560468
Dissolved Sodium (Na)	ug/L	-	49000	100	8560470				94000	100	8560468
Dissolved Strontium (Sr)	ug/L	-	220	1.0	8560470				260	1.0	8560468
Dissolved Thallium (Tl)	ug/L	0.3	<0.050	0.050	8560470				<0.050	0.050	8560468
Dissolved Titanium (Ti)	ug/L	-	<5.0	5.0	8560470				<5.0	5.0	8560468
Dissolved Uranium (U)	ug/L	5	1.4	0.10	8560470				0.89	0.10	8560468
Dissolved Vanadium (V)	ug/L	6	<0.50	0.50	8560470				<0.50	0.50	8560468
Dissolved Zinc (Zn)	ug/L	30	<5.0	5.0	8560470				<5.0	5.0	8560468

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels
RDL = Reportable Detection Limit	
QC Batch = Quality Control Batch	
Lab-Dup = Laboratory Initiated Duplicate	
Criteria: Ontario Provincial Water Quality Objectives	
Ref. to MOEE Water Management document dated Feb.1999	



**RCAP - COMPREHENSIVE (WATER)**

Bureau Veritas ID			VHK480		
Sampling Date			2023/03/14 12:45		
	UNITS	Criteria	MW5	RDL	QC Batch
<b>Calculated Parameters</b>					
Anion Sum	me/L	-	10.7	N/A	8556048
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	300	1.0	8555711
Calculated TDS	mg/L	-	610	1.0	8556049
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1.8	1.0	8555711
Cation Sum	me/L	-	11.7	N/A	8556048
Hardness (CaCO3)	mg/L	-	470	1.0	8555710
Ion Balance (% Difference)	%	-	4.54	N/A	8556044
Langelier Index (@ 20C)	N/A	-	0.963		8557462
Langelier Index (@ 4C)	N/A	-	0.716		8557463
Saturation pH (@ 20C)	N/A	-	6.85		8557462
Saturation pH (@ 4C)	N/A	-	7.10		8557463
<b>Inorganics</b>					
Total Ammonia-N	mg/L	-	0.085	0.050	8559399
Conductivity	umho/cm	-	1100	1.0	8559024
Dissolved Organic Carbon	mg/L	-	2.5	0.40	8559712
Orthophosphate (P)	mg/L	-	<0.010	0.010	8559116
pH	pH	6.5:8.5	7.81		8559039
Dissolved Sulphate (SO4)	mg/L	-	93	1.0	8559126
Alkalinity (Total as CaCO3)	mg/L	-	300	1.0	8559028
Dissolved Chloride (Cl-)	mg/L	-	87	1.0	8559107
Nitrite (N)	mg/L	-	<0.010	0.010	8559042
Nitrate (N)	mg/L	-	3.12	0.10	8559042
Nitrate + Nitrite (N)	mg/L	-	3.12	0.10	8559042
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	-	<4.9	4.9	8560470
Dissolved Antimony (Sb)	ug/L	20	<0.50	0.50	8560470
Dissolved Arsenic (As)	ug/L	100	<1.0	1.0	8560470
Dissolved Barium (Ba)	ug/L	-	43	2.0	8560470
Dissolved Beryllium (Be)	ug/L	11	<0.40	0.40	8560470
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					
N/A = Not Applicable					



**RCAP - COMPREHENSIVE (WATER)**

Bureau Veritas ID			VHK480		
Sampling Date			2023/03/14 12:45		
	UNITS	Criteria	MW5	RDL	QC Batch
Dissolved Boron (B)	ug/L	200	23	10	8560470
Dissolved Cadmium (Cd)	ug/L	0.2	<0.090	0.090	8560470
Dissolved Calcium (Ca)	ug/L	-	140000	200	8560470
Dissolved Chromium (Cr)	ug/L	-	<5.0	5.0	8560470
Dissolved Cobalt (Co)	ug/L	0.9	<0.50	0.50	8560470
Dissolved Copper (Cu)	ug/L	5	3.9	0.90	8560470
Dissolved Iron (Fe)	ug/L	300	<100	100	8560470
Dissolved Lead (Pb)	ug/L	5	<0.50	0.50	8560470
Dissolved Magnesium (Mg)	ug/L	-	26000	50	8560470
Dissolved Manganese (Mn)	ug/L	-	33	2.0	8560470
Dissolved Molybdenum (Mo)	ug/L	40	0.60	0.50	8560470
Dissolved Nickel (Ni)	ug/L	25	2.3	1.0	8560470
Dissolved Phosphorus (P)	ug/L	-	<100	100	8560470
Dissolved Potassium (K)	ug/L	-	1300	200	8560470
Dissolved Selenium (Se)	ug/L	100	<2.0	2.0	8560470
Dissolved Silicon (Si)	ug/L	-	4000	50	8560470
Dissolved Silver (Ag)	ug/L	0.1	<0.090	0.090	8560470
Dissolved Sodium (Na)	ug/L	-	54000	100	8560470
Dissolved Strontium (Sr)	ug/L	-	250	1.0	8560470
Dissolved Thallium (Tl)	ug/L	0.3	<0.050	0.050	8560470
Dissolved Titanium (Ti)	ug/L	-	<5.0	5.0	8560470
Dissolved Uranium (U)	ug/L	5	2.6	0.10	8560470
Dissolved Vanadium (V)	ug/L	6	<0.50	0.50	8560470
Dissolved Zinc (Zn)	ug/L	30	<5.0	5.0	8560470
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					



**RCAP - SURFACE WATER (WATER)**

Bureau Veritas ID			VHK481		
Sampling Date			2023/03/14 13:00		
	UNITS	Criteria	SW-001	RDL	QC Batch
<b>Calculated Parameters</b>					
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	280	1.0	8555711
Calculated TDS	mg/L	-	910	1.0	8556049
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	4.0	1.0	8555711
Hardness (CaCO3)	mg/L	-	450	1.0	8555710
Langelier Index (@ 20C)	N/A	-	1.23		8557462
Langelier Index (@ 4C)	N/A	-	0.986		8557463
Saturation pH (@ 20C)	N/A	-	6.95		8557462
Saturation pH (@ 4C)	N/A	-	7.20		8557463
<b>Inorganics</b>					
Total Ammonia-N	mg/L	-	<0.050	0.050	8559399
Conductivity	umho/cm	-	1700	1.0	8559024
Orthophosphate (P)	mg/L	-	<0.010	0.010	8559116
pH	pH	6.5:8.5	8.18		8559039
Dissolved Sulphate (SO4)	mg/L	-	130	1.0	8559126
Turbidity	NTU	-	0.4	0.1	8558264
Alkalinity (Total as CaCO3)	mg/L	-	290	1.0	8559028
Dissolved Chloride (Cl-)	mg/L	-	250	3.0	8559107
Nitrite (N)	mg/L	-	<0.010	0.010	8559042
Nitrate (N)	mg/L	-	4.95	0.10	8559042
<b>Metals</b>					
Dissolved Calcium (Ca)	mg/L	-	140	0.05	8560018
Dissolved Magnesium (Mg)	mg/L	-	26	0.05	8560018
Dissolved Potassium (K)	mg/L	-	2	1	8560018
Dissolved Sodium (Na)	mg/L	-	160	0.5	8560018
Total Aluminum (Al)	ug/L	-	43	4.9	8559406
Total Antimony (Sb)	ug/L	20	<0.50	0.50	8559406
Total Arsenic (As)	ug/L	100	<1.0	1.0	8559406
Total Barium (Ba)	ug/L	-	54	2.0	8559406
Total Beryllium (Be)	ug/L	11	<0.40	0.40	8559406
Total Boron (B)	ug/L	200	37	10	8559406
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					



**RCAP - SURFACE WATER (WATER)**

Bureau Veritas ID			VHK481		
Sampling Date			2023/03/14 13:00		
	UNITS	Criteria	SW-001	RDL	QC Batch
Total Cadmium (Cd)	ug/L	0.2	<0.090	0.090	8559406
Total Calcium (Ca)	ug/L	-	150000	200	8559406
Total Chromium (Cr)	ug/L	-	<5.0	5.0	8559406
Total Cobalt (Co)	ug/L	0.9	<0.50	0.50	8559406
Total Copper (Cu)	ug/L	5	1.9	0.90	8559406
Total Iron (Fe)	ug/L	300	<100	100	8559406
Total Lead (Pb)	ug/L	5	<0.50	0.50	8559406
Total Magnesium (Mg)	ug/L	-	28000	50	8559406
Total Manganese (Mn)	ug/L	-	2.7	2.0	8559406
Total Molybdenum (Mo)	ug/L	40	<0.50	0.50	8559406
Total Nickel (Ni)	ug/L	25	<1.0	1.0	8559406
Total Potassium (K)	ug/L	-	1900	200	8559406
Total Selenium (Se)	ug/L	100	<2.0	2.0	8559406
Total Silicon (Si)	ug/L	-	3600	50	8559406
Total Silver (Ag)	ug/L	0.1	<0.090	0.090	8559406
Total Sodium (Na)	ug/L	-	170000	100	8559406
Total Strontium (Sr)	ug/L	-	560	1.0	8559406
Total Thallium (Tl)	ug/L	0.3	<0.050	0.050	8559406
Total Titanium (Ti)	ug/L	-	<5.0	5.0	8559406
Total Uranium (U)	ug/L	5	0.53	0.10	8559406
Total Vanadium (V)	ug/L	6	0.50	0.50	8559406
Total Zinc (Zn)	ug/L	30	5.1	5.0	8559406
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					





BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### RESULTS OF ANALYSES OF WATER

<b>Bureau Veritas ID</b>			VHK481		
<b>Sampling Date</b>			2023/03/14 13:00		
	<b>UNITS</b>	<b>Criteria</b>	<b>SW-001</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Inorganics</b>					
Total Organic Carbon (TOC)	mg/L	-	2.0	0.40	8561706
Total Phosphorus	mg/L	0.01	0.005	0.004	8561743
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Provincial Water Quality Objectives					
Ref. to MOEE Water Management document dated Feb.1999					



BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### TEST SUMMARY

**Bureau Veritas ID:** VHK478  
**Sample ID:** MW3  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8559028	N/A	2023/03/17	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8555711	N/A	2023/03/20	Automated Statchk
Chloride by Automated Colourimetry	KONE	8559107	N/A	2023/03/20	Massarat Jan
Conductivity	AT	8559024	N/A	2023/03/17	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8559712	N/A	2023/03/18	Gyulshen Idriz
Hardness (calculated as CaCO3)		8555710	N/A	2023/03/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	8560470	N/A	2023/03/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	8556044	N/A	2023/03/20	Automated Statchk
Anion and Cation Sum	CALC	8556048	N/A	2023/03/20	Automated Statchk
Total Ammonia-N	LACH/NH4	8559399	N/A	2023/03/20	Shivani Shivani
Nitrate & Nitrite as Nitrogen in Water	LACH	8559042	N/A	2023/03/20	Chandra Nandlal
pH	AT	8559039	2023/03/17	2023/03/17	Kien Tran
Orthophosphate	KONE	8559116	N/A	2023/03/20	Massarat Jan
Sat. pH and Langelier Index (@ 20C)	CALC	8557462	N/A	2023/03/20	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8557463	N/A	2023/03/20	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8559126	N/A	2023/03/20	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	8556049	N/A	2023/03/20	Automated Statchk

**Bureau Veritas ID:** VHK478 Dup  
**Sample ID:** MW3  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	8559107	N/A	2023/03/20	Massarat Jan
Orthophosphate	KONE	8559116	N/A	2023/03/20	Massarat Jan
Sulphate by Automated Turbidimetry	KONE	8559126	N/A	2023/03/20	Alina Dobreanu

**Bureau Veritas ID:** VHK479  
**Sample ID:** MW4  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8559028	N/A	2023/03/17	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8555711	N/A	2023/03/20	Automated Statchk
Chloride by Automated Colourimetry	KONE	8559107	N/A	2023/03/20	Massarat Jan
Conductivity	AT	8559024	N/A	2023/03/17	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8559712	N/A	2023/03/18	Gyulshen Idriz
Hardness (calculated as CaCO3)		8555710	N/A	2023/03/21	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	8560468	N/A	2023/03/20	Arefa Dabhad
Ion Balance (% Difference)	CALC	8556044	N/A	2023/03/21	Automated Statchk
Anion and Cation Sum	CALC	8556048	N/A	2023/03/21	Automated Statchk
Total Ammonia-N	LACH/NH4	8559399	N/A	2023/03/20	Shivani Shivani
Nitrate & Nitrite as Nitrogen in Water	LACH	8559042	N/A	2023/03/20	Chandra Nandlal
pH	AT	8559039	2023/03/17	2023/03/17	Kien Tran



BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### TEST SUMMARY

**Bureau Veritas ID:** VHK479  
**Sample ID:** MW4  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	8559116	N/A	2023/03/20	Massarat Jan
Sat. pH and Langelier Index (@ 20C)	CALC	8557462	N/A	2023/03/21	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8557463	N/A	2023/03/21	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8559126	N/A	2023/03/20	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	8556049	N/A	2023/03/21	Automated Statchk

**Bureau Veritas ID:** VHK480  
**Sample ID:** MW5  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8559028	N/A	2023/03/17	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8555711	N/A	2023/03/20	Automated Statchk
Chloride by Automated Colourimetry	KONE	8559107	N/A	2023/03/20	Massarat Jan
Conductivity	AT	8559024	N/A	2023/03/17	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8559712	N/A	2023/03/18	Gyulshen Idriz
Hardness (calculated as CaCO3)		8555710	N/A	2023/03/20	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	8560470	N/A	2023/03/20	Prempal Bhatti
Ion Balance (% Difference)	CALC	8556044	N/A	2023/03/20	Automated Statchk
Anion and Cation Sum	CALC	8556048	N/A	2023/03/20	Automated Statchk
Total Ammonia-N	LACH/NH4	8559399	N/A	2023/03/20	Shivani Shivani
Nitrate & Nitrite as Nitrogen in Water	LACH	8559042	N/A	2023/03/20	Chandra Nandlal
pH	AT	8559039	2023/03/17	2023/03/17	Kien Tran
Orthophosphate	KONE	8559116	N/A	2023/03/20	Massarat Jan
Sat. pH and Langelier Index (@ 20C)	CALC	8557462	N/A	2023/03/20	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8557463	N/A	2023/03/20	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8559126	N/A	2023/03/20	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	8556049	N/A	2023/03/20	Automated Statchk

**Bureau Veritas ID:** VHK481  
**Sample ID:** SW-001  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8559028	N/A	2023/03/17	Kien Tran
Carbonate, Bicarbonate and Hydroxide	CALC	8555711	N/A	2023/03/20	Automated Statchk
Chloride by Automated Colourimetry	KONE	8559107	N/A	2023/03/20	Massarat Jan
Conductivity	AT	8559024	N/A	2023/03/17	Kien Tran
Hardness (calculated as CaCO3)		8555710	N/A	2023/03/22	Automated Statchk
Lab Filtered Metals Analysis by ICP	ICP	8560018	2023/03/17	2023/03/21	Suban Kanapathipplai
Total Metals Analysis by ICPMS	ICP/MS	8559406	2023/03/17	2023/03/20	Arefa Dabhad
Total Ammonia-N	LACH/NH4	8559399	N/A	2023/03/20	Shivani Shivani
Nitrate & Nitrite as Nitrogen in Water	LACH	8559042	N/A	2023/03/20	Chandra Nandlal
pH	AT	8559039	2023/03/17	2023/03/17	Kien Tran



BUREAU  
VERITAS

Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### TEST SUMMARY

**Bureau Veritas ID:** VHK481  
**Sample ID:** SW-001  
**Matrix:** Water

**Collected:** 2023/03/14  
**Shipped:**  
**Received:** 2023/03/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	8559116	N/A	2023/03/20	Massarat Jan
Sat. pH and Langelier Index (@ 20C)	CALC	8557462	N/A	2023/03/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8557463	N/A	2023/03/22	Automated Statchk
Sulphate by Automated Turbidimetry	KONE	8559126	N/A	2023/03/20	Alina Dobreanu
Total Dissolved Solids (TDS calc)	CALC	8556049	N/A	2023/03/22	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8561706	N/A	2023/03/20	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8561743	2023/03/20	2023/03/20	Prgya Panchal
Turbidity	AT	8558264	N/A	2023/03/17	Surinder Rai



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Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### GENERAL COMMENTS

Results relate only to the items tested.



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Bureau Veritas Job #: C373807

Report Date: 2023/03/22

### QUALITY ASSURANCE REPORT

GM BluePlan Engineering Limited

Client Project #: 122025-1

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8558264	Turbidity	2023/03/17			99	80 - 120	<0.1	NTU	1.4	20		
8559024	Conductivity	2023/03/17			101	85 - 115	<1.0	umho/cm	1.5	25		
8559028	Alkalinity (Total as CaCO3)	2023/03/17			98	85 - 115	<1.0	mg/L	0.96	20		
8559039	pH	2023/03/17			102	98 - 103			1.1	N/A		
8559042	Nitrate (N)	2023/03/20	84	80 - 120	88	80 - 120	<0.10	mg/L	NC	20		
8559042	Nitrite (N)	2023/03/20	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
8559107	Dissolved Chloride (Cl-)	2023/03/20	NC	80 - 120	97	80 - 120	<1.0	mg/L	0.095	20		
8559116	Orthophosphate (P)	2023/03/20	84	75 - 125	91	80 - 120	<0.010	mg/L	NC	20		
8559126	Dissolved Sulphate (SO4)	2023/03/20	NC	75 - 125	95	80 - 120	<1.0	mg/L	0.90	20		
8559399	Total Ammonia-N	2023/03/20	100	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
8559406	Total Aluminum (Al)	2023/03/20	118	80 - 120	103	80 - 120	<4.9	ug/L	1.5	20		
8559406	Total Antimony (Sb)	2023/03/20	106	80 - 120	105	80 - 120	<0.50	ug/L	3.1	20		
8559406	Total Arsenic (As)	2023/03/20	101	80 - 120	100	80 - 120	<1.0	ug/L	1.6	20		
8559406	Total Barium (Ba)	2023/03/20	98	80 - 120	100	80 - 120	<2.0	ug/L	3.1	20		
8559406	Total Beryllium (Be)	2023/03/20	105	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
8559406	Total Boron (B)	2023/03/20	97	80 - 120	95	80 - 120	<10	ug/L	0.26	20		
8559406	Total Cadmium (Cd)	2023/03/20	100	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
8559406	Total Calcium (Ca)	2023/03/20	NC	80 - 120	103	80 - 120	<200	ug/L	1.6	20		
8559406	Total Chromium (Cr)	2023/03/20	95	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
8559406	Total Cobalt (Co)	2023/03/20	98	80 - 120	98	80 - 120	<0.50	ug/L	0.91	20		
8559406	Total Copper (Cu)	2023/03/20	100	80 - 120	100	80 - 120	<0.90	ug/L	20	20		
8559406	Total Iron (Fe)	2023/03/20	99	80 - 120	100	80 - 120	<100	ug/L	0.14	20		
8559406	Total Lead (Pb)	2023/03/20	99	80 - 120	98	80 - 120	<0.50	ug/L	0.87	20		
8559406	Total Magnesium (Mg)	2023/03/20	96	80 - 120	102	80 - 120	<50	ug/L	1.2	20		
8559406	Total Manganese (Mn)	2023/03/20	98	80 - 120	98	80 - 120	<2.0	ug/L	2.8	20		
8559406	Total Molybdenum (Mo)	2023/03/20	98	80 - 120	96	80 - 120	<0.50	ug/L	5.0	20		
8559406	Total Nickel (Ni)	2023/03/20	98	80 - 120	99	80 - 120	<1.0	ug/L	1.4	20		
8559406	Total Potassium (K)	2023/03/20	103	80 - 120	101	80 - 120	<200	ug/L	1.3	20		
8559406	Total Selenium (Se)	2023/03/20	104	80 - 120	104	80 - 120	<2.0	ug/L	NC	20		
8559406	Total Silicon (Si)	2023/03/20	98	80 - 120	98	80 - 120	<50	ug/L	1.7	20		



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Bureau Veritas Job #: C373807

Report Date: 2023/03/22

### QUALITY ASSURANCE REPORT(CONT'D)

GM BluePlan Engineering Limited

Client Project #: 122025-1

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8559406	Total Silver (Ag)	2023/03/20	97	80 - 120	98	80 - 120	<0.090	ug/L	3.9	20		
8559406	Total Sodium (Na)	2023/03/20	NC	80 - 120	99	80 - 120	<100	ug/L	0.50	20		
8559406	Total Strontium (Sr)	2023/03/20	96	80 - 120	97	80 - 120	<1.0	ug/L	0.65	20		
8559406	Total Thallium (Tl)	2023/03/20	100	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
8559406	Total Titanium (Ti)	2023/03/20	99	80 - 120	100	80 - 120	<5.0	ug/L	0.89	20		
8559406	Total Uranium (U)	2023/03/20	NC	80 - 120	99	80 - 120	<0.10	ug/L	1.4	20		
8559406	Total Vanadium (V)	2023/03/20	96	80 - 120	95	80 - 120	<0.50	ug/L	0.49	20		
8559406	Total Zinc (Zn)	2023/03/20	100	80 - 120	101	80 - 120	<5.0	ug/L	1.7	20		
8559712	Dissolved Organic Carbon	2023/03/17	95	80 - 120	99	80 - 120	<0.40	mg/L	1.6	20		
8560018	Dissolved Calcium (Ca)	2023/03/21	NC	80 - 120	97	80 - 120	<0.05	mg/L	0.53	25		
8560018	Dissolved Magnesium (Mg)	2023/03/21	NC	80 - 120	98	80 - 120	<0.05	mg/L	0.087	25		
8560018	Dissolved Potassium (K)	2023/03/21	NC	80 - 120	98	80 - 120	<1	mg/L	0.32	25		
8560018	Dissolved Sodium (Na)	2023/03/21	NC	80 - 120	99	80 - 120	<0.5	mg/L	0.70	25		
8560468	Dissolved Aluminum (Al)	2023/03/20	108	80 - 120	102	80 - 120	<4.9	ug/L				
8560468	Dissolved Antimony (Sb)	2023/03/20	111	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
8560468	Dissolved Arsenic (As)	2023/03/20	106	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
8560468	Dissolved Barium (Ba)	2023/03/20	105	80 - 120	99	80 - 120	<2.0	ug/L	2.1	20		
8560468	Dissolved Beryllium (Be)	2023/03/20	108	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
8560468	Dissolved Boron (B)	2023/03/20	104	80 - 120	96	80 - 120	<10	ug/L	3.1	20		
8560468	Dissolved Cadmium (Cd)	2023/03/20	109	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8560468	Dissolved Calcium (Ca)	2023/03/20	NC	80 - 120	102	80 - 120	<200	ug/L				
8560468	Dissolved Chromium (Cr)	2023/03/20	102	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
8560468	Dissolved Cobalt (Co)	2023/03/20	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
8560468	Dissolved Copper (Cu)	2023/03/20	110	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
8560468	Dissolved Iron (Fe)	2023/03/20	105	80 - 120	98	80 - 120	<100	ug/L				
8560468	Dissolved Lead (Pb)	2023/03/20	105	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
8560468	Dissolved Magnesium (Mg)	2023/03/20	99	80 - 120	101	80 - 120	<50	ug/L				
8560468	Dissolved Manganese (Mn)	2023/03/20	103	80 - 120	98	80 - 120	<2.0	ug/L				
8560468	Dissolved Molybdenum (Mo)	2023/03/20	107	80 - 120	95	80 - 120	<0.50	ug/L	2.7	20		
8560468	Dissolved Nickel (Ni)	2023/03/20	103	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
8560468	Dissolved Phosphorus (P)	2023/03/20	113	80 - 120	108	80 - 120	<100	ug/L				



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Bureau Veritas Job #: C373807

Report Date: 2023/03/22

### QUALITY ASSURANCE REPORT(CONT'D)

GM BluePlan Engineering Limited

Client Project #: 122025-1

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8560468	Dissolved Potassium (K)	2023/03/20	109	80 - 120	101	80 - 120	<200	ug/L				
8560468	Dissolved Selenium (Se)	2023/03/20	108	80 - 120	102	80 - 120	<2.0	ug/L	NC	20		
8560468	Dissolved Silicon (Si)	2023/03/20	106	80 - 120	99	80 - 120	<50	ug/L				
8560468	Dissolved Silver (Ag)	2023/03/20	103	80 - 120	94	80 - 120	<0.090	ug/L	NC	20		
8560468	Dissolved Sodium (Na)	2023/03/20	NC	80 - 120	100	80 - 120	<100	ug/L	0.33	20		
8560468	Dissolved Strontium (Sr)	2023/03/20	100	80 - 120	96	80 - 120	<1.0	ug/L				
8560468	Dissolved Thallium (Tl)	2023/03/20	107	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
8560468	Dissolved Titanium (Ti)	2023/03/20	106	80 - 120	99	80 - 120	<5.0	ug/L				
8560468	Dissolved Uranium (U)	2023/03/20	106	80 - 120	98	80 - 120	<0.10	ug/L	1.5	20		
8560468	Dissolved Vanadium (V)	2023/03/20	102	80 - 120	94	80 - 120	<0.50	ug/L	12	20		
8560468	Dissolved Zinc (Zn)	2023/03/20	105	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8560470	Dissolved Aluminum (Al)	2023/03/20	120	80 - 120	102	80 - 120	<4.9	ug/L				
8560470	Dissolved Antimony (Sb)	2023/03/20	117	80 - 120	106	80 - 120	<0.50	ug/L	NC	20		
8560470	Dissolved Arsenic (As)	2023/03/20	108	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8560470	Dissolved Barium (Ba)	2023/03/20	NC	80 - 120	101	80 - 120	<2.0	ug/L	1.1	20		
8560470	Dissolved Beryllium (Be)	2023/03/20	107	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
8560470	Dissolved Boron (B)	2023/03/20	104	80 - 120	100	80 - 120	<10	ug/L	0.39	20		
8560470	Dissolved Cadmium (Cd)	2023/03/20	107	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
8560470	Dissolved Calcium (Ca)	2023/03/20	NC	80 - 120	104	80 - 120	<200	ug/L				
8560470	Dissolved Chromium (Cr)	2023/03/20	109	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8560470	Dissolved Cobalt (Co)	2023/03/20	106	80 - 120	99	80 - 120	<0.50	ug/L	7.1	20		
8560470	Dissolved Copper (Cu)	2023/03/20	109	80 - 120	102	80 - 120	<0.90	ug/L	5.2	20		
8560470	Dissolved Iron (Fe)	2023/03/20	109	80 - 120	101	80 - 120	<100	ug/L				
8560470	Dissolved Lead (Pb)	2023/03/20	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
8560470	Dissolved Magnesium (Mg)	2023/03/20	NC	80 - 120	100	80 - 120	<50	ug/L				
8560470	Dissolved Manganese (Mn)	2023/03/20	106	80 - 120	100	80 - 120	<2.0	ug/L				
8560470	Dissolved Molybdenum (Mo)	2023/03/20	124 (1)	80 - 120	105	80 - 120	<0.50	ug/L	0.87	20		
8560470	Dissolved Nickel (Ni)	2023/03/20	101	80 - 120	98	80 - 120	<1.0	ug/L	0.42	20		
8560470	Dissolved Phosphorus (P)	2023/03/20	121 (1)	80 - 120	116	80 - 120	<100	ug/L				
8560470	Dissolved Potassium (K)	2023/03/20	114	80 - 120	101	80 - 120	<200	ug/L				
8560470	Dissolved Selenium (Se)	2023/03/20	108	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		





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Bureau Veritas Job #: C373807

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### QUALITY ASSURANCE REPORT(CONT'D)

GM BluePlan Engineering Limited

Client Project #: 122025-1

Site Location: 79 SIDEROAD 19, FERGUS

Sampler Initials: MO

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8560470	Dissolved Silicon (Si)	2023/03/20	NC	80 - 120	102	80 - 120	<50	ug/L				
8560470	Dissolved Silver (Ag)	2023/03/20	99	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
8560470	Dissolved Sodium (Na)	2023/03/20	NC	80 - 120	100	80 - 120	<100	ug/L	5.3	20		
8560470	Dissolved Strontium (Sr)	2023/03/20	NC	80 - 120	100	80 - 120	<1.0	ug/L				
8560470	Dissolved Thallium (Tl)	2023/03/20	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
8560470	Dissolved Titanium (Ti)	2023/03/20	122 (1)	80 - 120	103	80 - 120	<5.0	ug/L				
8560470	Dissolved Uranium (U)	2023/03/20	107	80 - 120	101	80 - 120	<0.10	ug/L	0.29	20		
8560470	Dissolved Vanadium (V)	2023/03/20	114	80 - 120	99	80 - 120	<0.50	ug/L	9.9	20		
8560470	Dissolved Zinc (Zn)	2023/03/20	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
8561706	Total Organic Carbon (TOC)	2023/03/20	96	80 - 120	98	80 - 120	<0.40	mg/L	1.9	20		
8561743	Total Phosphorus	2023/03/21	99	80 - 120	109	80 - 120	<0.004	mg/L	NC	20	110	80 - 120

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

\_\_\_\_\_  
Anastassia Hamanov, Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.





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Bureau Veritas Job #: C373807  
Report Date: 2023/03/22

GM BluePlan Engineering Limited  
Client Project #: 122025-1  
Site Location: 79 SIDEROAD 19, FERGUS  
Sampler Initials: MO

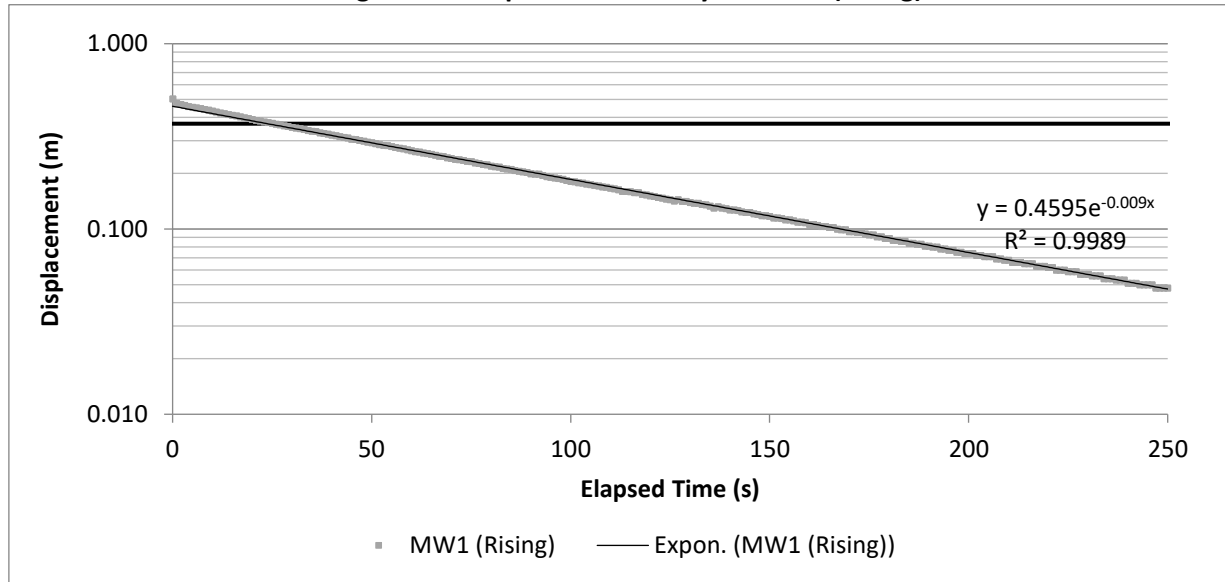
**Exceedance Summary Table – Prov. Water Quality Obj.  
Result Exceedances**

<b>Sample ID</b>	<b>Bureau Veritas ID</b>	<b>Parameter</b>	<b>Criteria</b>	<b>Result</b>	<b>DL</b>	<b>UNITS</b>
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						

## **Appendix H Single Well Response Test Results**

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### Single Well Response Test Analysis: MW1 (Rising)



#### Bouwer-Rice Analysis

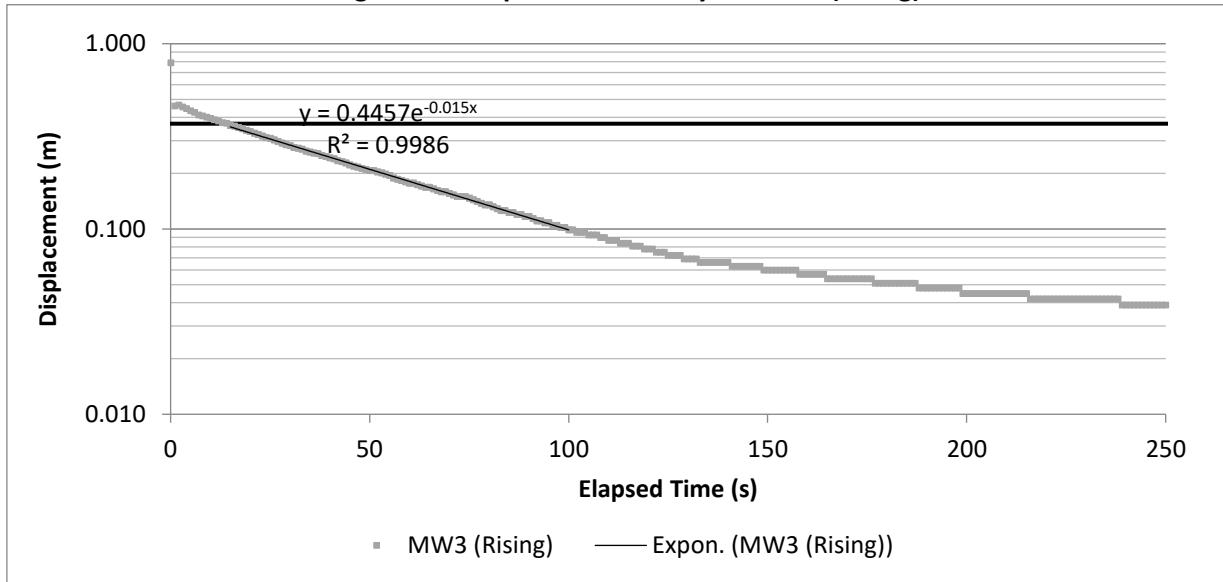
Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

(1/t)(ln(y <sub>o</sub> /y <sub>t</sub> ))=	9.00E-03	(from slope of data)
L =	3.05	(Saturated Length of Screen)
r <sub>w</sub> =	0.1048	(radius of filter pack)
L/r <sub>w</sub> =	29.1	(ratio)
A =	2.50	(from shape factor curves in Bouwer and Rice, 1976)
B =	0.375	(from shape factor curves in Bouwer and Rice, 1976)
C =	2	(from shape factor curves in Bouwer and Rice, 1976)
ln(R <sub>e</sub> /r <sub>w</sub> )=	2.897	(from shape factor equation in Bouwer and Rice, 1976)
D =	5.6	(Saturated Thickness of Geologic Unit)
H =	5.6	(Height of water column above bottom of well)
r <sub>c</sub> =	0.025	(radius of well casing)
k =	2.7E-06	m/s

**Hydraulic Conductivity of SAND, trace to some Silt is 2.7E-06 m/s**

### Single Well Response Test Analysis: MW3 (Rising)



### Bouwer-Rice Analysis

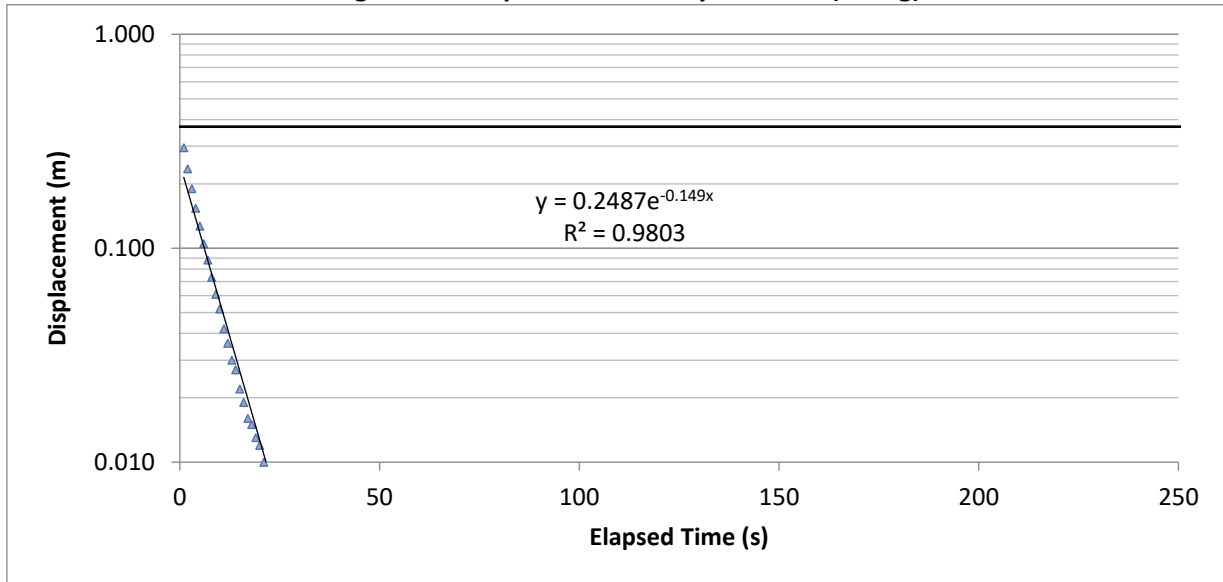
Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

(1/t)(ln(y <sub>o</sub> /y <sub>t</sub> ))=	1.50E-02	(from slope of data)
L =	1.52	(Saturated Length of Screen)
r <sub>w</sub> =	0.1048	(radius of filter pack)
L/r <sub>w</sub> =	14.5	(ratio)
A =	2.00	(from shape factor curves in Bouwer and Rice, 1976)
B =	0.25	(from shape factor curves in Bouwer and Rice, 1976)
C =	1.5	(from shape factor curves in Bouwer and Rice, 1976)
ln(R <sub>e</sub> /r <sub>w</sub> )=	2.306	(from shape factor equation in Bouwer and Rice, 1976)
D =	2.93	(Saturated Thickness of Geologic Unit)
H =	2.93	(Height of water column above bottom of well)
r <sub>c</sub> =	0.025	(radius of well casing)
k =	7.1E-06	m/s

**Hydraulic Conductivity of SAND, trace Silt is 7.1E-06 m/s**

### Single Well Response Test Analysis: MW4 (Rising)



#### Bouwer-Rice Analysis

Governing Equation:

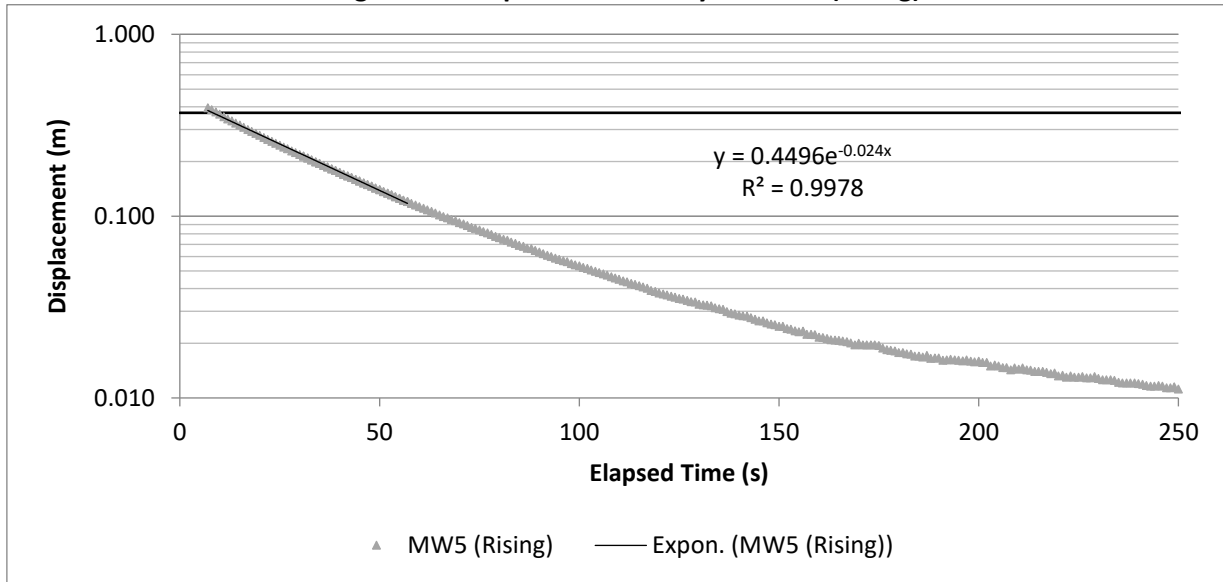
$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

$(1/t)(\ln(y_o/y_t))=$	1.49E-01	(from slope of data)
L =	1.52	(Saturated Length of Screen)
$r_w=$	0.1048	(radius of filter pack)
$L/r_w=$	14.5	(ratio)
A =	1.75	(from shape factor curves in Bouwer and Rice, 1976)
B =	0.35	(from shape factor curves in Bouwer and Rice, 1976)
C =	2	(from shape factor curves in Bouwer and Rice, 1976)
$\ln(R_e/r_w)=$	2.381	(from shape factor equation in Bouwer and Rice, 1976)
D =	4.8	(Saturated Thickness of Geologic Unit)
H =	5.172	(Height of water column above bottom of well)
$r_c=$	0.025	(radius of well casing)
k =	7.3E-05	m/s

**Hydraulic Conductivity of SAND, trace Silt is 7.3E-05 m/s**



### Single Well Response Test Analysis: MW5 (Rising)



### Bouwer-Rice Analysis

Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

$(1/t)(\ln(y_o/y_t))=$	2.40E-02	(from slope of data)
L =	1.52	(Saturated Length of Screen)
$r_w=$	0.1048	(radius of filter pack)
$L/r_w=$	14.5	(ratio)
A =	1.90	(from shape factor curves in Bouwer and Rice, 1976)
B =	0.375	(from shape factor curves in Bouwer and Rice, 1976)
C =	1.45	(from shape factor curves in Bouwer and Rice, 1976)
$\ln(R_e/r_w)=$	2.459	(from shape factor equation in Bouwer and Rice, 1976)
D =	3.783	(Saturated Thickness of Geologic Unit)
H =	3.783	(Height of water column above bottom of well)
$r_c=$	0.025	(radius of well casing)
k =	1.2E-05	m/s

**Hydraulic Conductivity of SAND, trace Silt is 1.2E-05 m/s**

## **Appendix I Construction Dewatering Estimates**

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## Hydrogeological Calculations for Dewatering Estimates

**Project:** 2402265 - 79 Sideroad 19  
**Date:** 2024-Jun-14 **Engineer/Technician:** MRL

Description of Project:  
 Re-development of residential properties for increased density.

Description of Conceptual Model for Dewatering Estimation:  
 Based on assessment of proposed works in relation to groundwater levels, it is expected that construction dewatering will be required at three types of excavation:

### 1) Dewatering for Site Servicing

Description: Seepage into Excavation  
 Model Type: Flow to Finite Trench in Unconfined Aquifer  
 Static Groundwater Level = 417.1 masl (max GWL at MW-1)  
 Base of Deepest Structure = 413.5 masl (existing sanitary sewer on SR 19)  
 Target Groundwater Level = 413 masl (= 0.5 m buffer below base of structure))  
 Elevation of Impermeable Bottom = 411.6 masl (Till at MW-1)  
 Excavation Dimensions = 3 m wide by 30 m long  
 Hydraulic Conductivity, k  
     Max k =  $7 \times 10^{-5}$  m/s, per maximum slug test result, c.f. MW4  
     Typical k =  $2 \times 10^{-6}$  m/s, per slug test at MW1, nearest well to SR 19

### 2) Dewatering for SWM Pond Construction

Description: Seepage into Excavation  
 Model Type: Flow to Equivalent Well in Unconfined Aquifer  
 Static Groundwater Level = 415.8 masl (max GWL at MW-5)  
 Base of Deepest Excavation = 414.2 masl (SWM Pond Forebay)  
 Target Groundwater Level = 413.7 masl (0.5 m buffer below base of excavation)  
 Elevation of Impermeable Bottom = 411.9 masl (Till at MW-5)  
 Excavation Dimensions = 8 m by 2 m (equivalent well of 2.3 m radius)  
 Hydraulic Conductivity, k  
     Max k =  $7 \times 10^{-5}$  m/s, per maximum slug test result cf. MW-4  
     Typical k =  $1 \times 10^{-5}$  m/s, per slug test at MW-5, nearest to SWM Pond

## **Hydrogeological Calculations for Dewatering Estimates**

**Project:** 2402265 - 79 Sideroad 19  
**Date:** 2024-Jun-14 **Engineer/Technician:** MRL

### Description of Conceptual Model for Dewatering Estimation:

Based on assessment of proposed works in relation to groundwater levels, it is expected that construction dewatering will be required at three types of excavation:

#### 3) Dewatering for Basement

Description: Seepage into Excavation

Model Type: Flow Equivalent Well in Unconfined Aquifer

Required Drawdown (H-h)

Maximum Drawdown = 0.3 m

Typical Drawdown = 0.0 m (i.e., no dewatering needed)

Static Groundwater Level (H) = 416.7 m - 412.1 m = 4.6 m

(Max GWL at MW3 - Top of Till at MW3)

Excavation Dimensions = 45 m by 15 m (equivalent well of 14.7 m)

Hydraulic Conductivity, k

k =  $5 \times 10^{-6}$  m/s, estimated hydraulic conductivity for shallow silt material.

## Hydrogeological Calculations for Dewatering Estimates

Project:

2402265 - 79 Sideroad 19

Date: 2024-Jun-14

Engineer/Technician: MRL

### 1A DEWATERING FOR SITE SERVICING - Maximum

#### Radius of Influence

Schart (Unconfined)

$$R_o = 3000(H - h)\sqrt{k}$$

R <sub>0</sub> =	102.9	m (Radius of Influence)
H=	417.1	m (Initial Head)
h=	413	m (Head at Drawdown)
k=	7.00E-05	m/s (Hydraulic Conductivity)

Aquifer Type:

Unconfined (Water Table)

Calculation Approach:

Flow to Finite Trench

Governing Equation:

$$Q = \pi k \frac{(H^2 - h^2)}{\ln \frac{R_o}{r_w}} + xk \frac{(H^2 - h^2)}{L}$$

Q=	226,879	L/d (Dewatering Flow)
x=	30	m (Length of Trench)
k=	7.00E-05	m/s (Hydraulic Conductivity)
H=	5.5	m (Initial Head)
h=	1.4	m (Head at Drawdown)
L=	51.5	m (Distance to "Source")
R <sub>0</sub> =	102.9	m (Radius of Influence)
r <sub>w</sub> =	1.5	m (Radius of Well or System)

**Hydrogeological Calculations for Dewatering Estimates**

Project: 2402265 - 79 Sideroad 19  
 Date: 2024-Jun-14 Engineer/Technician: MRL

**1B) DEWATERING FOR SITE SERVICING - Typical**

Radius of Influence

Sichart (Unconfined)

$$R_o = 3000(H - h)\sqrt{k}$$

R <sub>0</sub> =	17.4	m (Radius of Influence)
H=	417.1	m (Initial Head)
h=	413	m (Head at Drawdown)
k=	2.00E-06	m/s (Hydraulic Conductivity)

Aquifer Type: Unconfined (Water Table)

Calculation Approach: Flow to Finite Trench

Governing Equation:

$$Q = \pi k \frac{(H^2 - h^2)}{\ln \frac{R_o}{r_w}} + xk \frac{(H^2 - h^2)}{L}$$

Q=	23,129	L/d (Dewatering Flow)
x=	30	m (Length of Trench)
k=	2.00E-06	m/s (Hydraulic Conductivity)
H=	5.5	m (Initial Head)
h=	1.4	m (Head at Drawdown)
L=	8.7	m (Distance to "Source")
R <sub>0</sub> =	17.4	m (Radius of Influence)
r <sub>w</sub> =	1.5	m (Radius of Well or System)

**Hydrogeological Calculations for Dewatering Estimates**

**Project:** 2402265 - 79 Sideroad 19  
**Date:** 2024-Jun-14 **Engineer/Technician:** MRL

**2A) DEWATERING FOR SWM POND - Maximum**

Radius of Influence  
 Sichart (Unconfined)

$$R_o = 3000(H - h)\sqrt{k}$$

R <sub>0</sub> =	52.7	m (Radius of Influence)
H=	415.8	m (Initial Head)
h=	413.7	m (Head at Drawdown)
k=	7.00E-05	m/s (Hydraulic Conductivity)

Aquifer Type: Unconfined (Water Table)

Calculation Approach: Flow to Well

Governing Equation:

$$Q = \pi k \frac{(H^2 - h^2)}{\ln \frac{R_o}{r_w}}$$

Q=	72,619	L/d (Dewatering Flow)
k=	7.00E-05	m/s (Hydraulic Conductivity)
H=	3.9	m (Initial Head)
h=	1.8	m (Head at Drawdown)
R <sub>0</sub> =	52.7	m (Radius of Influence)
r <sub>w</sub> =	2.3	m (Radius of Well or System)

**Hydrogeological Calculations for Dewatering Estimates**

Project: 2402265 - 79 Sideroad 19  
 Date: 2024-Jun-14 Engineer/Technician: MRL

**2B) DEWATERING FOR SWM POND - Typical**

Radius of Influence  
 Sichart (Unconfined)

$$R_o = 3000(H - h)\sqrt{k}$$

R <sub>0</sub> =	19.9	m (Radius of Influence)
H=	415.8	m (Initial Head)
h=	413.7	m (Head at Drawdown)
k=	1.00E-05	m/s (Hydraulic Conductivity)

Aquifer Type: Unconfined (Water Table)

Calculation Approach: Flow to Well

Governing Equation:

$$Q = \pi k \frac{(H^2 - h^2)}{\ln \frac{R_o}{r_w}}$$

Q=	15,049	L/d (Dewatering Flow)
k=	1.00E-05	m/s (Hydraulic Conductivity)
H=	3.9	m (Initial Head)
h=	1.8	m (Head at Drawdown)
R <sub>0</sub> =	19.9	m (Radius of Influence)
r <sub>w</sub> =	2.3	m (Radius of Well or System)



## Hydrogeological Calculations for Dewatering Estimates

Project:

2402265 - 79 Sideroad 19

Date: 2024-Jun-14

Engineer/Technician: MRL

### 3A) DEWATERING FOR BASEMENT - Maximum

Radius of Influence

Sichart (Unconfined)

$$R_o = 3000(H - h)\sqrt{k}$$

R <sub>0</sub> =	2.0	m (Radius of Influence)
H=	4.6	m (Initial Head)
h=	4.3	m (Head at Drawdown)
k=	5.00E-06	m/s (Hydraulic Conductivity)

Aquifer Type:

Unconfined (Water Table)

Calculation Approach:

Flow to Well

Governing Equation:

$$Q = \pi k \frac{(H^2 - h^2)}{\ln \frac{R_o}{r_w}}$$

Q=	28,242	L/d (Dewatering Flow)
k=	5.00E-06	m/s (Hydraulic Conductivity)
H=	4.6	m (Initial Head)
h=	4.3	m (Head at Drawdown)
R <sub>0</sub> =	16.7	m (Radius of Influence)
r <sub>w</sub> =	14.7	m (Radius of Well or System)

**Hydrogeological Calculations for Dewatering Estimates**

**Project:** 2402265 - 79 Sideroad 19  
**Date:** 2024-Jun-14 **Engineer/Technician:** MRL

**3B) DEWATERING FOR BASEMENT - Typical**

No dewatering expected in the typical case for basement excavation.  
 Excavations likely to be above groundwater.

Summary	Typical Rate (L/d)	Max. Rate (L/d)	Radius of Influence (m)†
Dewatering for Site Servicing	24,000	227,000	103
Dewatering for SWM Pond	16,000	73,000	53
Dewatering for Basement	0	29,000	2

†- Based on maximum dewatering scenario