



Hydrogeological Study Report

Proposed Residential Development 73/79 Sideroad 19

Township of Centre Wellington (Fergus), Ontario

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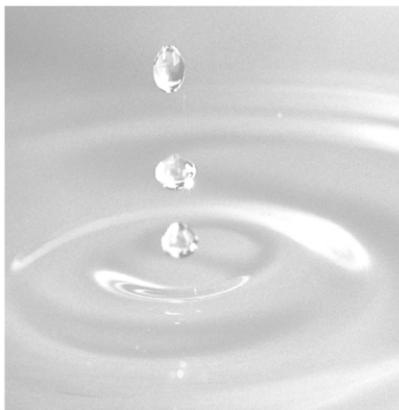
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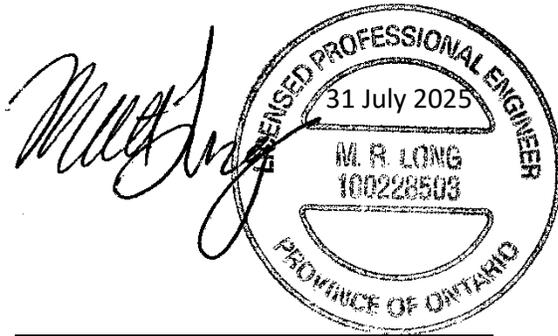
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Record of Revisions

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.
R03	July 31, 2025	Revised due to change in concept. Issued for Site Plan Approval.

Acronyms and Abbreviations

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

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 located at 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, and,
 - 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 approval approaches, and,
- 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

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 Site is roughly rectangular in shape with approximate dimensions of 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:

- A private road for site access, including parking spaces and a turnaround area at the end. The site access road features a 6.1m asphalt width, concrete curb and gutter along both sides and a 1.5m wide concrete sidewalk on one side.
- Ten (10) single-detached dwellings with associated yards and driveways fronting onto the north side of the site access road.

- Eight (8) bungalow units with associated yards and driveways fronting onto the south side of the site access road.
- One (1) single-detached dwelling with associated yard and driveway fronting onto Sideroad 19.
- Servicing and stormwater management infrastructure, including a stormwater management facility. The design of the stormwater management facility is presented in the Stormwater Management Design Report for 73/79 Sideroad 19 (GEI Consultants Canada Ltd).

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

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

The Site Servicing 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 2024). 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 plotting on the Site in error.

2.6. Relevant Local and Site-Specific Reports

2.6.1. 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 interchangeably 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 5 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”.

2.7. 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), and,
- Natural/ environmental protection areas (e.g. wetland/woodland areas) to the south/southeast of the Site.

3. Field Investigation

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 up to May 2025, equipped with loggers in March and April 2023 are plotted in Charts 1 through 5, respectively (Appendix F). 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 April 2023 and minimum recorded groundwater levels occurring in October 2024.

Maximum groundwater levels ranged from about 417.10 masl (MW1 in April 2023) to about 415.56 masl (MW5 in April 2023).

The range of fluctuation (i.e., difference between maximum and minimum recorded manual groundwater levels) is between 0.8 to 1.4 m at all monitoring wells, based on the water level data recorded on site between April 2023 and May 2025. 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 and 2025 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 7a. The Seasonal High Groundwater Level (SHGWL) contours based on water level data until May 6, 2025, have been plotted in Figure 7b. 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 (Figure 7a) 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 3×10^{-6} m/s
- MW3 7×10^{-6} m/s
- MW4 7×10^{-5} m/s
- MW5 1×10^{-5} m/s

The geometric mean of the four test results is 1×10^{-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

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 0.8 to 1.4 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

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 the 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 the 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 reduce 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 rates 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: 240,000 L/d
- Stormwater Management Facility
 - Typical Expected Dewatering Rate: 16,000 L/d
 - Maximum Expected Dewatering Rate: 75,000 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 5×10^{-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

Though in limited circumstances a Permit to Take Water is required for construction dewatering activities, the construction dewatering for this project (i.e., the proposed servicing and development of the Site) is regulated in Ontario under the *Environmental Protection Act*, Ontario Regulation 63/16, and the Environmental Activity and Sector Registry (EASR) program.

Therefore, due to the expected dewatering rates being in excess of 50,000 L/d, it is recommended that the construction dewatering activity be registered to the EASR.

Dewatering activities registered to the 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 114 m for the sanitary sewer construction and 57 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 of 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_{max} 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_0 is the radius of influence of dewatering

(103 m for the sewer, 53 m for the stormwater management facility)

r_w 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

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 Stormwater Management Design Report for the proposed development (GEI, 2025). The water balance calculations indicate that the proposed development would result in a decrease in total groundwater recharge on-site of approximately $-1,369 \text{ m}^3/\text{year}$, corresponding to a decrease of about 49% relative to existing conditions.

The Stormwater Management Design Report (GEI, 2025) 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 Stormwater Management Design Report (GEI, 2025), 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 in the Stormwater Management Design Report (2025, under separate cover) for the proposed development indicate that the proposed development would decrease recharge from on-site catchments by approximately 49% (1,369 m³/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

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

A hydrogeological study has been completed with respect to a proposed residential development to be constructed at 73 and 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 417.35 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 3×10^{-6} m/s to 7×10^{-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: 240,000 L/d
 - Stormwater Management Facility
 - Typical Expected Dewatering Rate: 16,000 L/d
 - Maximum Expected Dewatering Rate: 75,000 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 114 m of the sanitary sewer, within 57 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 to support the EASR registration.
- 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 the occurrence of negative impacts to the identified receptors.
- A salt management plan was developed by GEI and is included under a separate cover (GEI, 2025).

9. Conclusions and Recommendations

Having undertaken the hydrogeological study for the proposed residential development of 73 and 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 to support the EASR registration 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 240,000 L/d
 - Typical Estimated Dewatering 24,000 L/d
 - Source 2: Stormwater Management Facility
 - Maximum Estimated Dewatering 75,000 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 344,000 L/d
 - Typical Estimated Dewatering 40,000 L/d

3. 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.
4. 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.
5. 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.
6. 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.
7. 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

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 May 6, 2025.

11. References

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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

**Table 1
Well Records Summary**

Well ID	Completed	Depth (m)	Depth to Bedrock (m)	Static Water Level (mbgs)	Bedrock / Overburden	Well Use	Notes
Wells Attributed to the Site							
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	
Wells Attributed to Off-Site Locations							
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 Manual 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	Depth to water (mbTOC) 5-Apr-2023	Groundwater Elevation 5-Apr-2023	Depth to water (mbTOC) 7-Jun-2023	Groundwater Elevation 7-Jun-2023	Depth to water (mbTOC) 14-Jun-2023	Groundwater Elevation 14-Jun-2023
MW1	4839992.6	548683.0	419.124	419.211	NA	-	2.022	417.102	2.054	417.070	-	-	2.625	416.499
MW2	4839945.8	548717.1	417.000	417.100	NA	-	0.025	416.975	0.025	416.975	1.035	415.965	-	-
MW3	4839948.0	548783.9	417.629	416.939	1.898	415.731	1.326	416.303	1.296	416.333	-	-	2.122	415.507
MW4	4839915.1	548749.9	417.057	416.302	1.434	415.623	0.949	416.108	0.953	416.104	-	-	1.809	415.248
MW5	4839889.2	548799.2	416.810	415.859	1.618	415.192	1.277	415.533	1.246	415.564	-	-	1.827	414.983
SW001	-	-	-	-	-	-	-	-	-	415.489	-	-	-	-

Notes:
 NA - well not accessible on the date of reading water levels (JLP 2023) or not found due to snow cover
 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 Manual Water Level Measurements

Well	NORTHING	EASTING	TOC Elevation (m)	GS Elevation (m)	Depth to water (mbTOC) 13-Oct-2023	Groundwater Elevation 13-Oct-2023	Depth to water (mbTOC) 28-Mar-2024	Groundwater Elevation 28-Mar-2024	Depth to water (mbTOC) 10-Jul-2024	Groundwater Elevation 10-Jul-2024	Depth to water (mbTOC) 2-Oct-2024	Groundwater Elevation 2-Oct-2024	Depth to water (mbTOC) 5-Feb-2025	Groundwater Elevation 5-Feb-2025
MW1	4839992.6	548683.0	419.124	419.211	2.878	416.246	2.353	416.771	2.645	416.479	2.926	416.198	NA	NA
MW2	4839945.8	548717.1	417.000	417.100	1.316	417.808	0.533	416.467	1.021	415.979	1.394	415.606	1.130	415.870
MW3	4839948.0	548783.9	417.629	416.939	2.289	416.835	1.636	415.993	1.905	415.724	2.364	415.265	2.141	415.488
MW4	4839915.1	548749.9	417.057	416.302	1.829	417.295	1.222	415.835	1.452	415.605	1.901	415.156	1.653	415.404
MW5	4839889.2	548799.2	416.810	415.859	1.968	417.156	1.470	415.340	1.954	414.856	2.020	414.790	1.861	414.949
SW001	-	-	-	-	Dry	-	-	-	-	-	-	-	-	-

Notes:

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

or not found due to snow cover

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 Manual Water Level Measurements

Well	NORTHING	EASTING	TOC Elevation (m)	GS Elevation (m)	Depth to water (mbTOC) 6-May-2025	Groundwater Elevation 6-May-2025
MW1	4839992.6	548683.0	419.124	419.211	2.415	414.585
MW2	4839945.8	548717.1	417.000	417.100	0.676	416.324
MW3	4839948.0	548783.9	417.629	416.939	1.319	416.310
MW4	4839915.1	548749.9	417.057	416.302	1.783	415.274
MW5	4839889.2	548799.2	416.810	415.859	1.544	415.266
SW001	-	-	-	-	-	-

Notes:

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

or not found due to snow cover

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>PWQOs¹</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
Metals								
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	-	-	-

Legend	
Exceeds one Criteria	Result
Criteria 1	Provincial Water Quality Objectives

Table 4
Summary of Groundwater Quality Analyses - General Chemistry Parameters

Parameter	PWQOs ¹	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
General Chemistry								
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	1.4	-	-	-	-

Legend	
Exceeds one Criteria	Result
Criteria 1	Provincial Water Quality Objectives

Table 5
Summary of Surface Water Quality Analyses - Metals Parameters

<i>Parameter</i>	<i>PWQOs¹</i>	<i>Units</i>	<i>RDL</i>	SW-001 03-14-23 01:00 PM
Metals				
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

Legend	
Exceeds one Criteria	Result
Criteria 1	Provincial Water Quality Objectives

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

<i>Parameter</i>	<i>PWQOs¹</i>	<i>Units</i>	<i>RDL</i>	SW-001 03-14-23 01:00 PM
General Chemistry				
Anion Sum		me/L		-
Bicarb. Alkalinity (calc. as CaCO ₃)		mg/L	1.0	280
Calculated TDS		mg/L	1.0	910
Carb. Alkalinity (calc. as CaCO ₃)		mg/L	1.0	4
Cation Sum		me/L		-
Hardness (CaCO ₃)		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 ₄)		mg/L	1.0	130
Alkalinity (Total as CaCO ₃)		mg/L	1.0	290
Dissolved Chloride (Cl ⁻)		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

Legend	
Exceeds one Criteria	Result
Criteria 1	Provincial Water Quality Objectives

Figures

Figure 1. Site Location

Figure 2. Site Layout

Figure 3. Physiographic Landforms

Figure 4. Surficial Geology

Figure 5. MECP Water Well Records

Figure 6. Site Investigation Layout

Figure 7a. Groundwater Contours (April 2023)

Figure 7b. Seasonal High Groundwater Levels (up to May 2025)

Figure 8. Estimated Zone of Influence for Construction Dewatering

Figure 9. Well Monitoring Buffer

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Hydrogeological Study
Report

Proposed Residential
Development at
73/79 Sideroad 19

Lot 19, Con 15
Geo. Twp of Nichol



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

Scale: 1: 7,500
June 2024

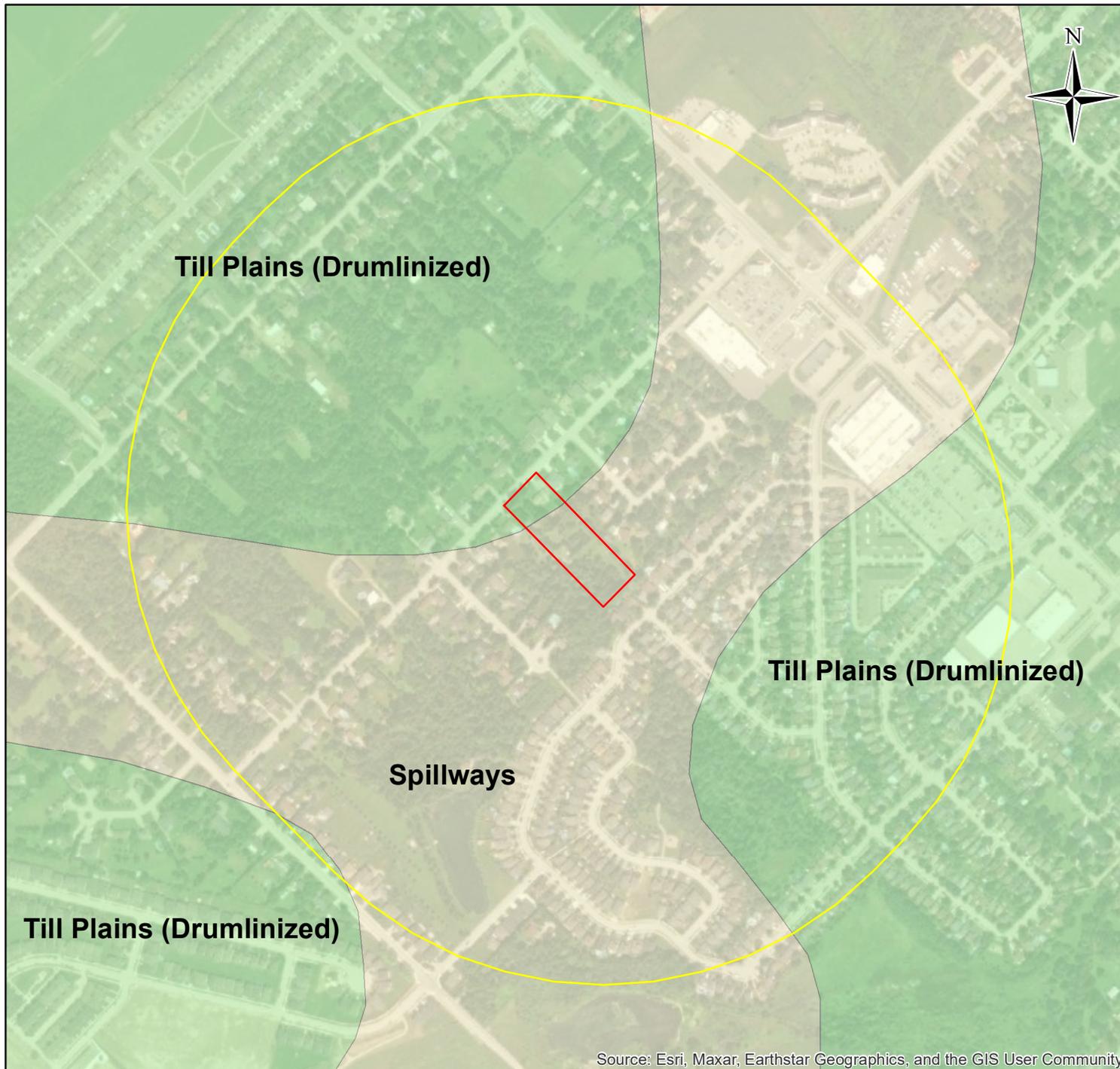
Figure 2:
Site Layout

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

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Proposed Residential
Development at
73/79 Sideroad 19

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

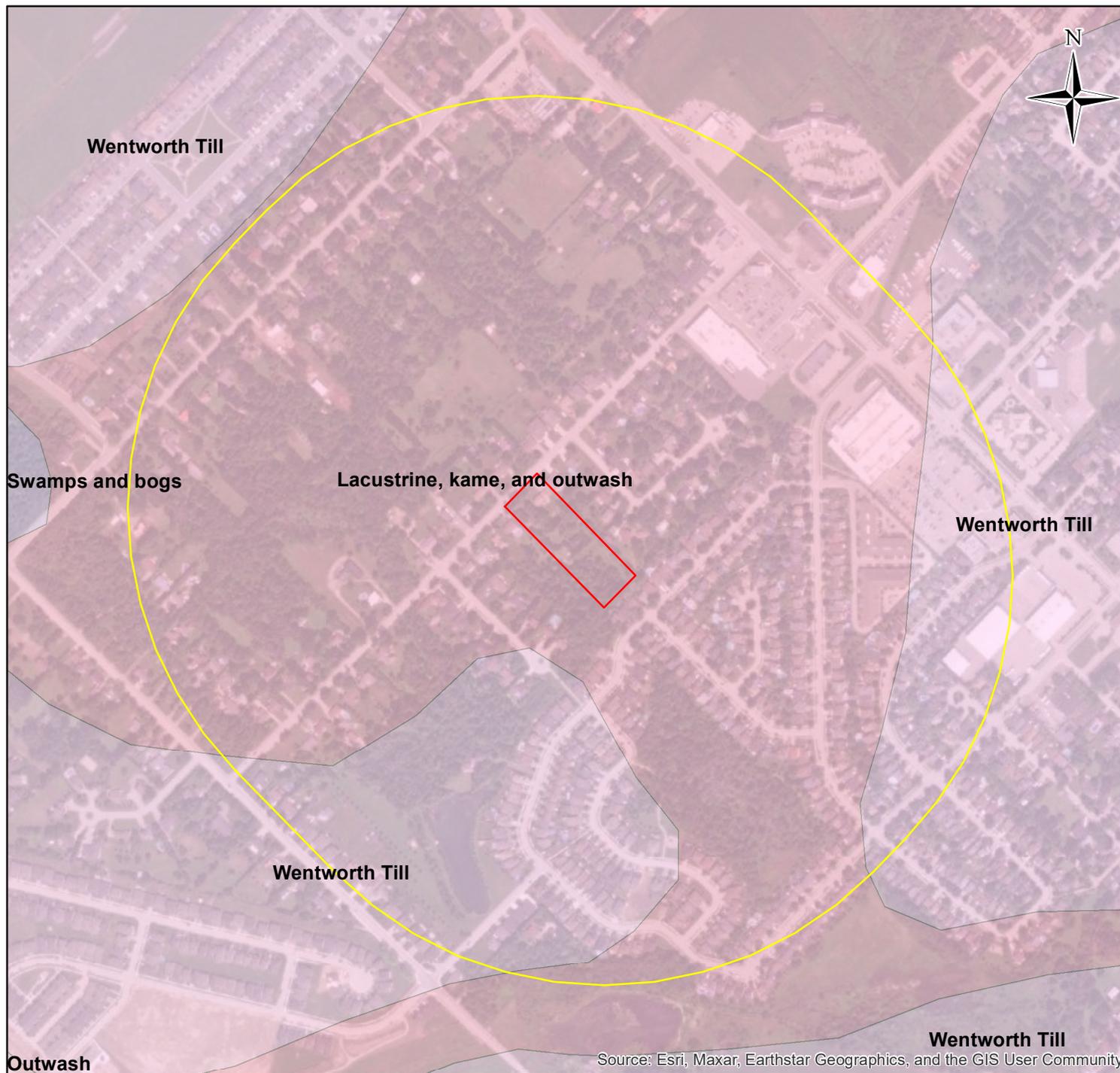
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Proposed Residential
Development at
73/79 Sideroad 19

Lot 19, Con 15
Geo. Twp of Nichol



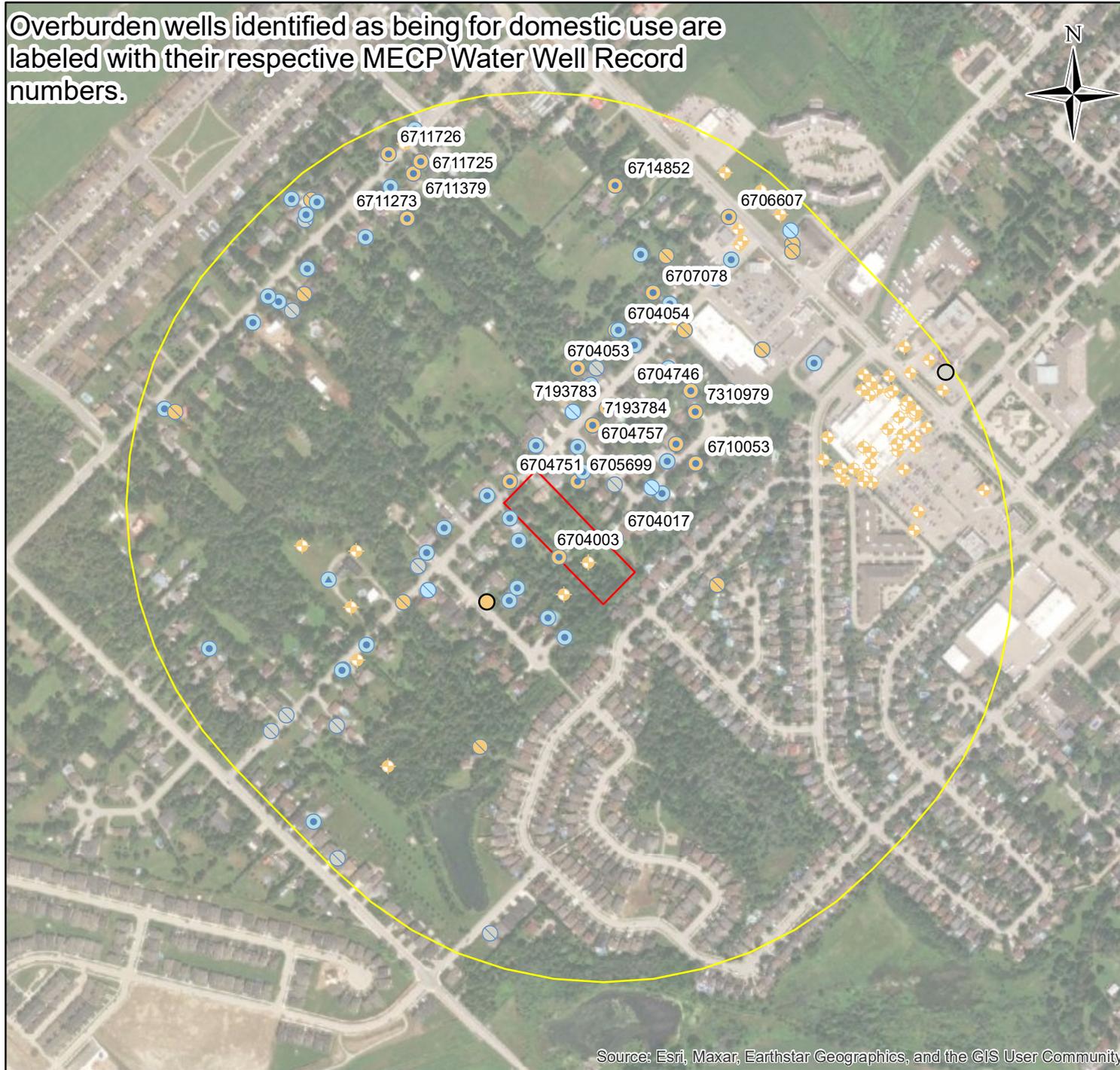
- Site Boundary (approx.)
- Study Area (500m)
- Surficial Geology of Ontario**
- Lacustrine, kame, and outwash
- Outwash
- Swamps and bogs
- Wentworth Till

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
73/79 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
73/79 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
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Proposed Residential
Development at
73/79 Sideroad 19

Lot 19, Con 15
Geo. Twp of Nichol



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

Scale: 1: 1,500
June 2024

Figure 7a:
Groundwater Contours
(April 2023)

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.)
- Monitoring Wells
- GW Contours (2025-05-06)
- Roads

Scale: 1: 1,000
July 2025

Figure 7b:
Seasonal High Groundwater
Levels (up to May 2025)



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Proposed Residential
Development at
73/79 Sideroad 19

Lot 19, Con 15
Geo. Twp of Nichol



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

Scale: 1: 2,000
July 2025

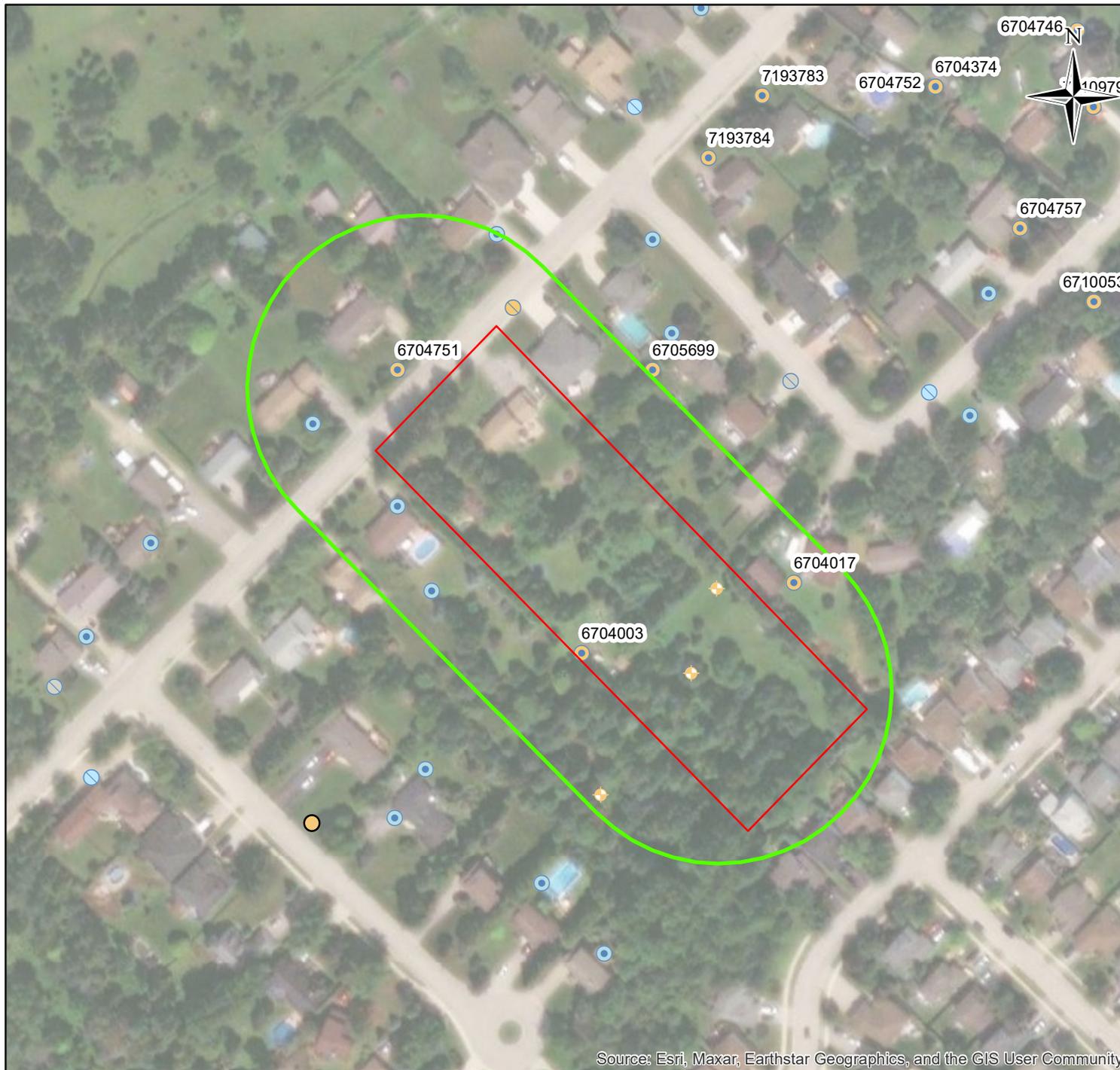
Figure 8:
Estimated Zones of Influence
for Construction Dewatering



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Report

Proposed Residential
Development at
73/79 Sideroad 19

Lot 19, Con 15
Geo. Twp of Nichol



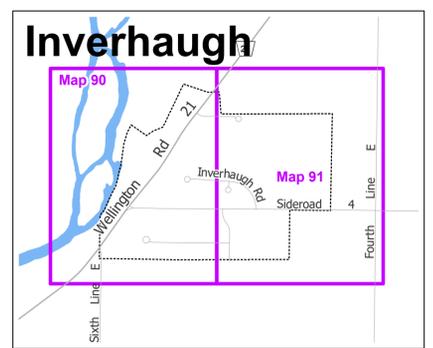
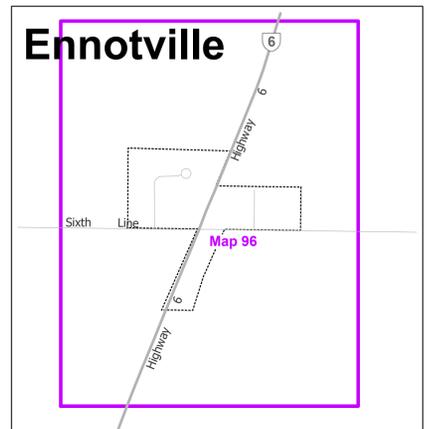
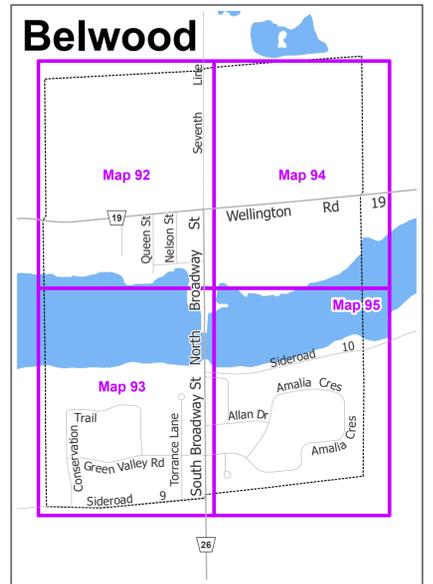
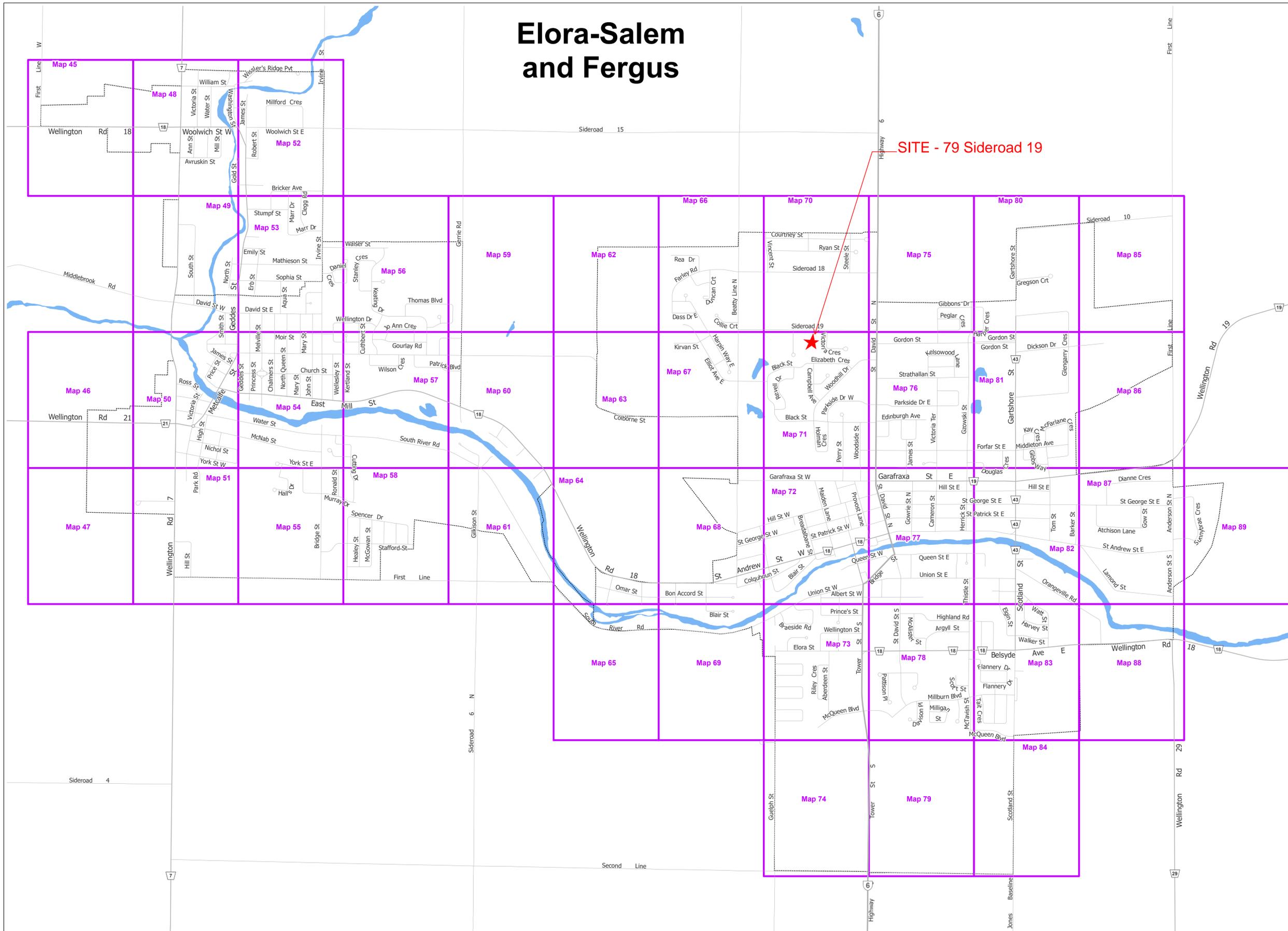
- Site Boundary (approx.)
- Well Monitoring Buffer
- Well Type, Well Use**
- Bedrock, Abandoned
- Bedrock, Domestic
- Overburden, Abandoned
- Overburden, Domestic
- Overburden, Monitoring
- Overburden, Unknown
- Unknown, Abandoned

Scale: 1: 1,500
June 2024

Figure 9:
Well Monitoring Buffer

Appendix A Zoning Maps from Township of Centre Wellington

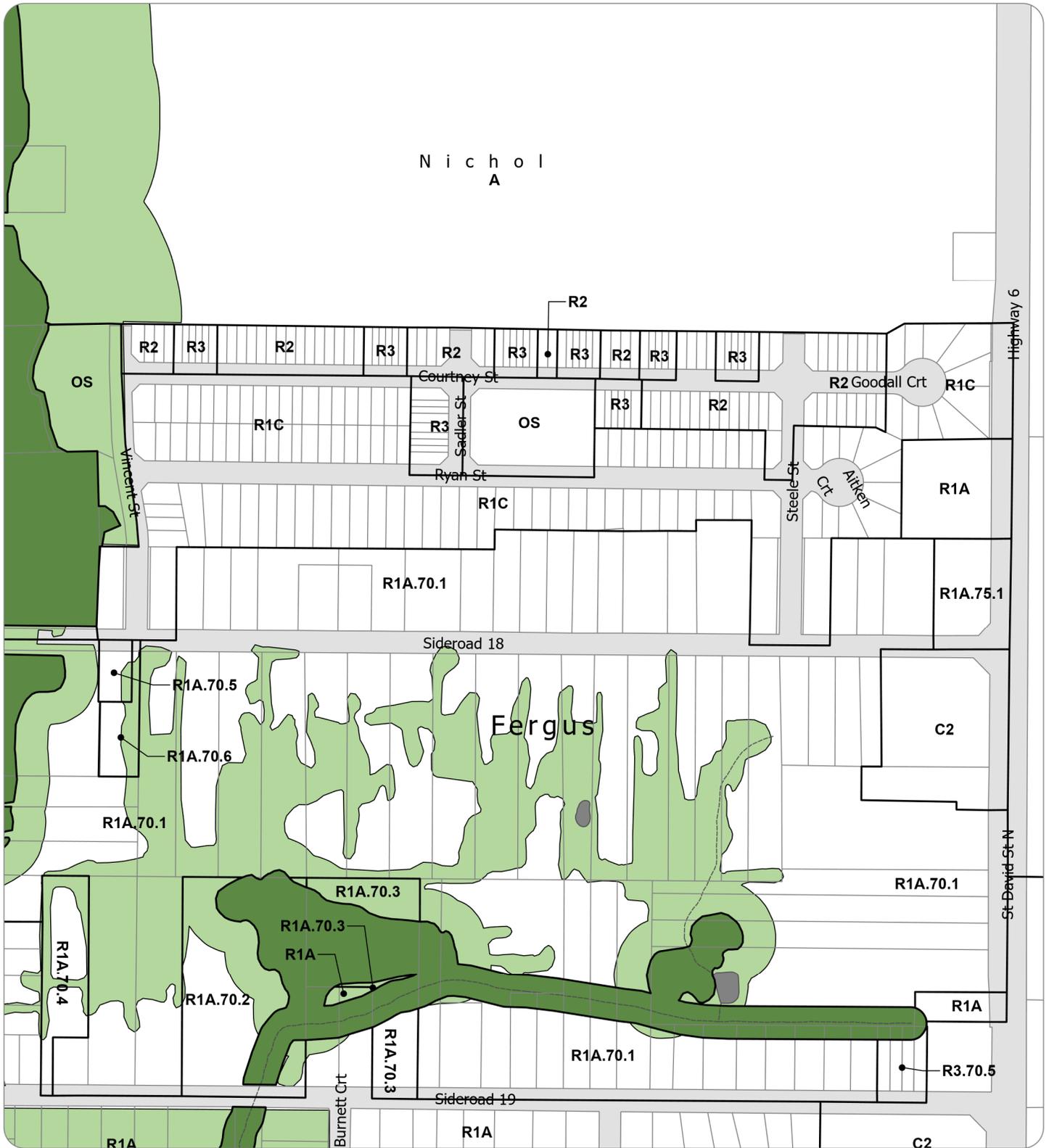
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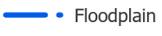
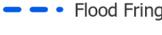
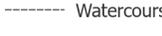


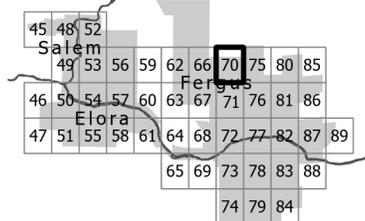
Urban Zoning Map Index

Urban and Hamlet Zoning Map Index



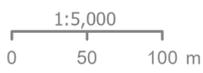


-  Zone Boundary
-  Environmental Protection
-  Environmental Protection Overlay
-  Heritage Area Overlay
-  Parcel Fabric
-  Floodplain
-  Flood Fringe
-  Waterbody
-  Watercourse
-  Road



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



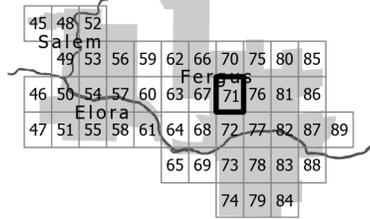
Author: GWowlich
 Date Saved: 2023-09



SITE - 79 Sideroad 19

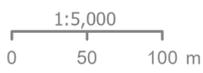


- Zone Boundary
- Environmental Protection
- Environmental Protection Overlay
- Heritage Area Overlay
- Parcel Fabric
- Floodplain
- Flood Fringe
- Waterbody
- Watercourse
- Road



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

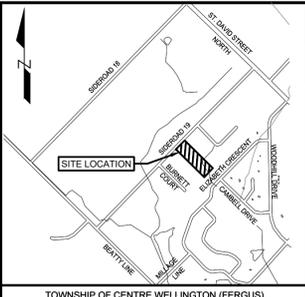
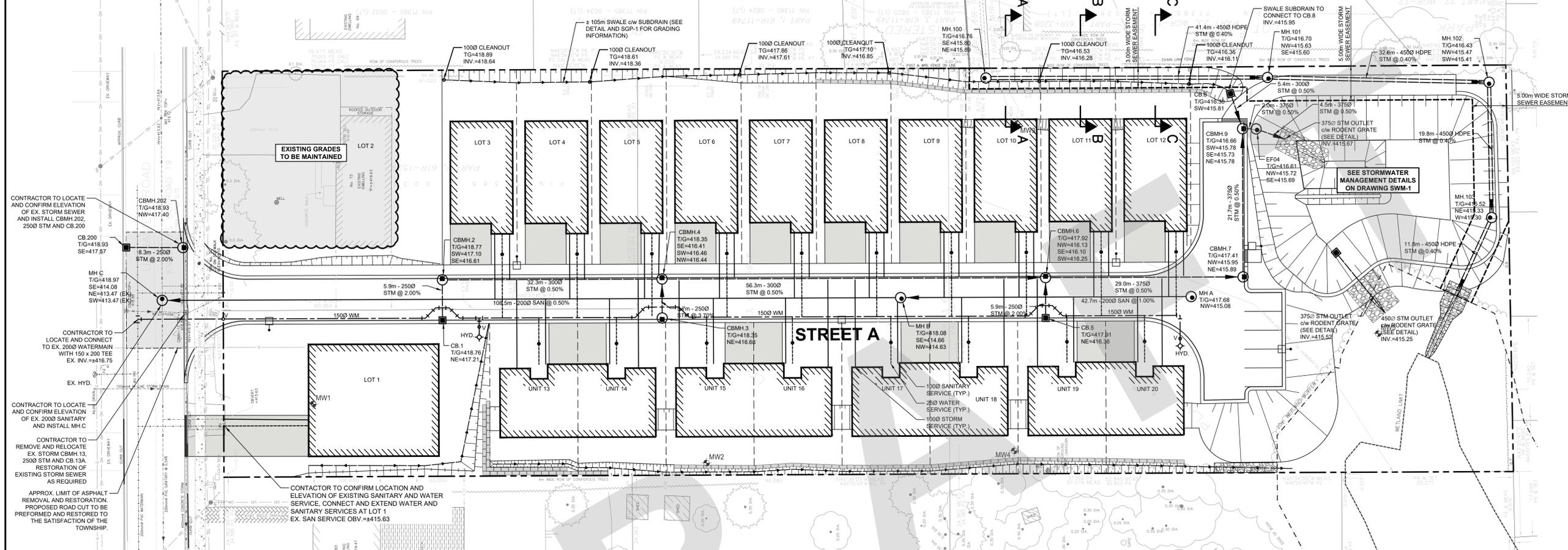
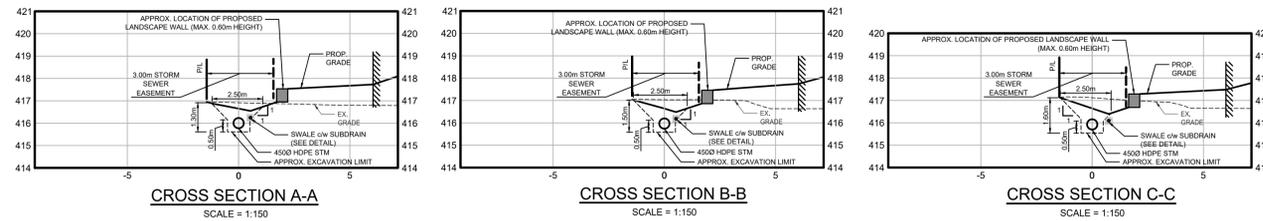
Sources: May include data from the Grand River Conservation Authority, County of Wellington, Teranet (2004) and © 2023 of the Queens Printer for Ontario. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The Township of Centre Wellington 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: G.Wolowich
 Date Saved: 2023-09



Appendix B Proposed Site Plan

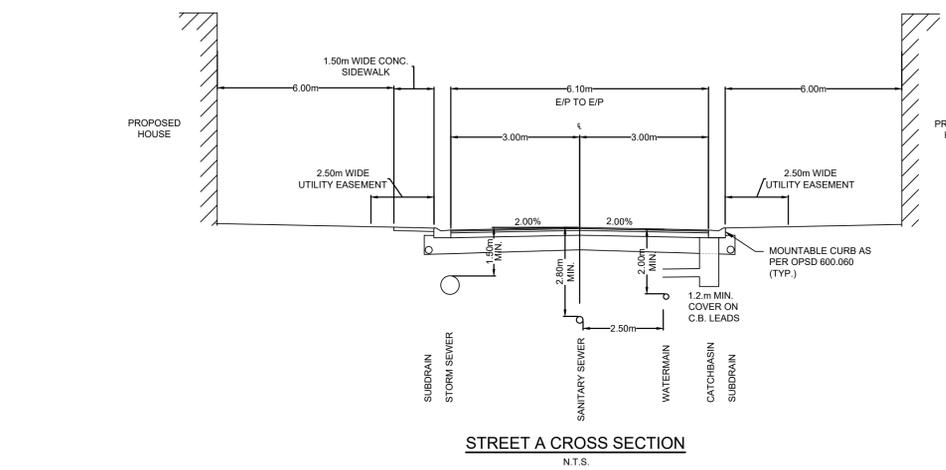
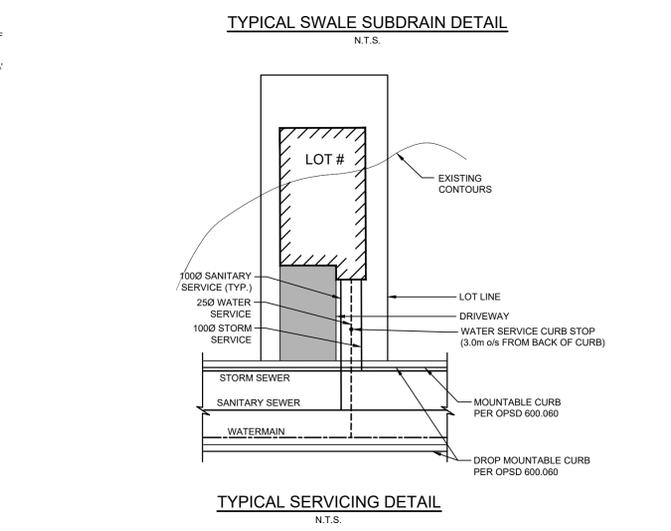
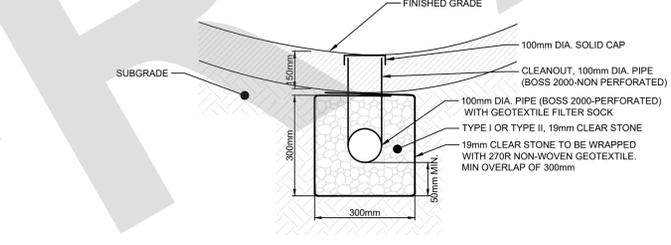


NOTES:

- TOPOGRAPHIC AND EXISTING FEATURES SURVEY ON-SITE COMPLETED BY VAN HARTEN SURVEYING INC. RECEIVED 2022-08-29 AND 2024-03-18. TOPOGRAPHIC SURVEY OF THE WETLAND AREA WAS ALSO COMPLETED BY VAN HARTEN SURVEYING INC., RECEIVED 2022-05-23.
- SITE PLAN PREPARED BY GSP GROUP, DATED 2025-05-21.
- BEARINGS ARE GRID BEARINGS AND ARE DERIVED FROM GPS OBSERVATIONS AND ARE REFERRED TO THE UTM PROJECTION, ZONE 17, NAD 83 (CGRS-2011) ADJUSTMENT (PROVIDED BY VAN HARTEN SURVEYING INC.).
- DISTANCES SHOWN ON THIS PLAN ARE ADJUSTED GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY AN AVERAGED COMBINED SCALE FACTOR OF 0.999575. (PROVIDED BY VAN HARTEN SURVEYING INC.)
- COORDINATES ON THIS PLAN ARE UTM, ZONE 17, NAD83 (CGRS-2011) ADJUSTMENT AND ARE BASED ON GPS OBSERVATIONS FROM A NETWORK OF PERMANENT GPS REFERENCE STATIONS. (PROVIDED BY VAN HARTEN SURVEYING INC.)
- PROPOSED STREETLIGHT LOCATIONS PER STREET LIGHTING DRAWING PREPARED BY MIGHTON ENGINEERING (PROJECT No. 45173)

- SERVICING NOTES - STORM**
- ALL STORM SEWERS 375mm and SMALLER TO BE PVC-DR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS. 450mm and LARGER TO BE CONCRETE IN ACCORDANCE WITH CSA A257.2, CLASS 650 OR LATEST REVISIONS. UNLESS OTHERWISE NOTED.
 - BEDDING FOR PVC STORM SEWERS AS PER OPSD 802.010, GRANULAR 'A', COMPACTED TO 98% SPMD.
 - BEDDING FOR CONCRETE PIPE AS PER OPSD 802.030, CLASS B, GRANULAR 'A', COMPACTED TO 98% SPMD.
 - EXISTING SEWER INVERTS, MATERIAL TYPE, AND SIZE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL CATCHBASINS SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 705.010 OR OPSD 705.020. ALL CATCHBASIN FRAMES AND COVERS IN THE ROADWAY AS PER OPSD 400.110. ALL CATCHBASIN FRAMES AND COVERS IN WALKWAY AREAS AS PER OPSD 400.100.
 - ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 - ALL PRECAST MAINTENANCE HOLES SHALL HAVE ALL PRECAST JOINTS EXTERNALLY WRAPPED WITH A WATERPROOF MEMBRANE (MIN. 0.30m WIDE STRIP). THIS INCLUDES ALL JOINTS BELOW THE MAINTENANCE HOLE FRAME AND COVER.
 - ALL CATCHBASIN LEADS TO BE MINIMUM 250mm PVC SDR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034, OR NON-REINFORCED CONCRETE PIPE, OR BOSS 2000 HDPE IN ACCORDANCE WITH CSA-B182.2, ASTM D-3034, UNLESS NOTED OTHERWISE.
 - ALL MAINTENANCE HOLES AND CATCHBASIN MAINTENANCE HOLES SHALL BE BENCHED UP TO 34 HEIGHT REGARDLESS OF PIPE SIZE. ALL BENCHING SHALL SLOPE UP AND AWAY FROM THE PIPE AT 8% SLOPE. STORM SEWER MAINTENANCE HOLES SHALL NOT BE PRE-BENCHED BY THE MANUFACTURER EXCEPT IN NEW DEVELOPMENT. BENCHING MAINTENANCE HOLES MUST BE COMPLETED DURING CONSTRUCTION ON SITE.
- SANITARY**
- ALL SANITARY SEWERS ARE TO BE PVC-DR 35 IN ACCORDANCE WITH CSA-B182.2, ASTM D-2779 AND ASTM D-3034 OR LATEST REVISIONS. RUBBER GASKET. SERVICES TO BE PVC-DR 28.
 - EXISTING SEWER INVERTS, MATERIAL TYPE, AND SIZE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL RELOCATION, RECONSTRUCTION AND RESTORATION TO BE PERFORMED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
 - PROVIDE WATER TIGHT COVERS FOR SANITARY MANHOLES LOCATED IN PONDING AREAS.
 - PRECAST MANHOLES TO BE MANUFACTURED TO REQUIREMENTS OF CSA A257.4 AND A S.T.M. DESIGNATION C478M. 1200MM MANHOLES AS PER OPSD 701.010, 1500MM MANHOLES AS PER OPSD 701.011. MANHOLE FRAMES AND COVERS AS PER OPSD 401.010 TYPE 'A'.
 - ALL PRECAST MAINTENANCE HOLES SHALL HAVE ALL PRECAST JOINTS EXTERNALLY WRAPPED WITH A WATERPROOF MEMBRANE (MIN. 0.30m WIDE STRIP). THIS INCLUDES ALL JOINTS BELOW THE MAINTENANCE HOLE FRAME AND COVER.
 - ALL SANITARY SEWER PIPES, PIPE JOINTS AND CONNECTIONS SHALL WITHSTAND A PRESSURE OF ATLEAST 45 PSI WITHOUT LEAKAGE.
 - BENCHING AS PER OPSD 701.021, TO SPRING LINE OF PIPE.
 - BEDDING FOR PVC SANITARY SEWERS AS PER OPSD 802.010, GRANULAR 'A' COMPACTED TO 95% SPMD.
 - ALL CONNECTIONS WITH PAVED PORTIONS OF EXISTING ROADS TO BE BACKFILLED WITH GRANULAR MATERIAL OR LATEST TOWNSHIP SPECIFICATIONS AND COMPACTED TO 98% SPMD.
 - ALL TESTING OF SANITARY SERVICES TO BE IN ACCORDANCE WITH O.B.C. - 2012 AND TOWNSHIP SPECIFICATIONS.
 - ALL CONNECTIONS TO SANITARY MANHOLES TO BE MADE WITH A KOR-N-SEAL ADAPTOR.

- WATER**
- WATER SERVICE PIPE TO BE PVC-DR 18 CL 150 CONFORMING TO CSA B137.3, INCLUDING 12 GAUGE 7 STRAND TRACER WIRE BETWEEN HYDRANTS OR OTHER CONDUCTING APPURTENANCES. PIPE SHALL HAVE A MINIMUM COVER OF 2.0m. ALL WATERMAIN JOINTS TO BE APPROVED PUSH-ON, MECHANICAL OR FLANGE TYPE JOINTS AS REQUIRED FOR 1000 kPa RATED PRESSURE. CORROSION PROTECTION FOR ALL FITTINGS, VALVES AND HYDRANTS (HYPROTECT OR EQUAL).
 - BEDDING AS PER OPSD 802.010, TYPE 1 & 2, GRANULAR 'A' COMPACTED TO 98% SPMD.
 - ALL WATERMAIN FITTINGS AND APPURTENANCES TO BE SELECTED FROM THE TOWNSHIP'S APPROVED MATERIAL LIST FOR WATERMANS.
 - WATERMANS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 0.5m AND HORIZONTAL SEPARATION OF 2.4m BETWEEN ANY SEWER OR MANHOLE.
 - ALL WORKS WITHIN TOWNSHIP RIGHT-OF-WAY TO BE PERFORMED BY TOWNSHIP FORCES UPON APPLICATION.
 - CONTRACTOR TO CONFIRM THE SIZE, LOCATION AND MATERIAL TYPE OF EXISTING WATER SERVICE AND WATERMAIN PRIOR TO COMMENCING ANY WORK.
 - EXISTING WATERMAIN OVERTS TO BE CONFIRMED ON SITE AT THE TIME OF CONSTRUCTION.
 - ALL RELOCATION, RECONSTRUCTION AND RESTORATION TO BE PERFORMED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
 - ALL CONNECTIONS WITH PAVED PORTIONS OF EXISTING ROADS TO BE BACKFILLED WITH GRANULAR 'A' MATERIAL OR AS PER LATEST TOWNSHIP SPECIFICATIONS.
 - FLUSHING, SWABBING, AND TESTING OF WATERMAIN AS PER ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
 - VALVE AND BOX TO BE INSTALLED AS PER OPSD 1101.020.
 - HYDRANTS SHALL CONFORM TO STD-W3 AND SHALL BE DARLING CENTURY STYLE BY CANADA VALVE COMPANY LIMITED OR MEAVITY STYLE M-67 BY CRANE (CANADA) LIMITED AND SHALL BE INSTALLED AS PER OPSD 1105.010.
 - HYDRANTS SHALL OPEN COUNTER CLOCKWISE AND BE YELLOW WITH GREEN BONNETS AND HOSE CAPS.
 - ALL WATERMAIN MATERIALS, INSTALLATION METHODS AND TESTING SHALL CONFORM TO OBC-2012 AND TOWNSHIP SPECIFICATIONS.



LEGEND

PROPERTY LINE	EX. CONIFEROUS AND DECIDUOUS TREES	PROP. SANITARY SEWER
EX. SANITARY SEWER	EX. HYDRO POLE AND GUY WIRE	PROP. STORM SEWER
EX. STORM SEWER	EX. HYDRO LIGHT POLE	PROP. CATCH BASIN
EX. CATCH BASIN	EX. FLAG POLE	PROP. WATERMAIN
EX. WATERMAIN	EX. BOREHOLE & BOREHOLE / MONITORING WELL	PROP. FIRE HYDRANT
EX. FIRE HYDRANT	PROP. SWALE	PROP. LIGHT STANDARD (SEE NOTE 6)
EX. DITCH	WETLAND LIMIT	
EX. FENCE LINE	10.0m WETLAND BUFFER	
EX. CONTOURS		
EX. HEDGE		

ALL ROOF DOWNSPOUTS FOR LOTS 3 TO 12 AND UNITS 13 TO 20 TO BE DIRECTED TO THE PROPOSED CONDO ROAD

SITE PLAN INFORMATION	SURVEYOR INFORMATION
GSP GROUP 72 VICTORIA STREET SOUTH, SUITE 201 KITCHENER, ON N2G 4Y9 PHONE: (519) 569-8863 WEBSITE: www.gspgroup.ca	VAN HARTEN SURVEYING INC. 2106 GORDON STREET GUELPH, ON, N1L 1G6 PHONE: (519) 821-2783 WEBSITE: www.vanharten.com

BENCHMARKS (PROVIDED BY VAN HARTEN SURVEYING INC.):

SITE BENCHMARK #1	ELEVATION
CUT CROSS ON SIDEWALK NEAR NORTH-EAST CORNER OF SUBJECT PROPERTY HAVING AN ELEVATION OF 416.60m	416.60m
SITE BENCHMARK #2	ELEVATION
CUT CROSS ON SIDEWALK NEAR NORTH-EAST CORNER OF SUBJECT PROPERTY HAVING AN ELEVATION OF 415.10m	415.10m

No.	DATE	ISSUE/REVISION	INITIAL
3	--	D R A F T	--
2	2024-10-01	ISSUED FOR APPROVAL	A.E.K.
1	2024-09-05	ISSUED FOR REVIEW	A.E.K.

TOWNSHIP OF CENTRE WELLINGTON
WRIGHTHAVEN HOMES
 079 SIDEROAD 19 RESIDENTIAL DEVELOPMENT
 FERGUS, ONTARIO

SITE SERVICING PLAN

DESIGNED BY: BL/PL	DATE: JUNE 2024	CHECKED BY: SP
DRAWN BY: BL	PROJECT No: 2401073	DRAWING No: SSP-1
SCALE: 1:300		

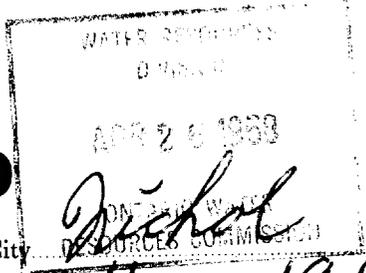
Appendix C Select MECP Water Well Records

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

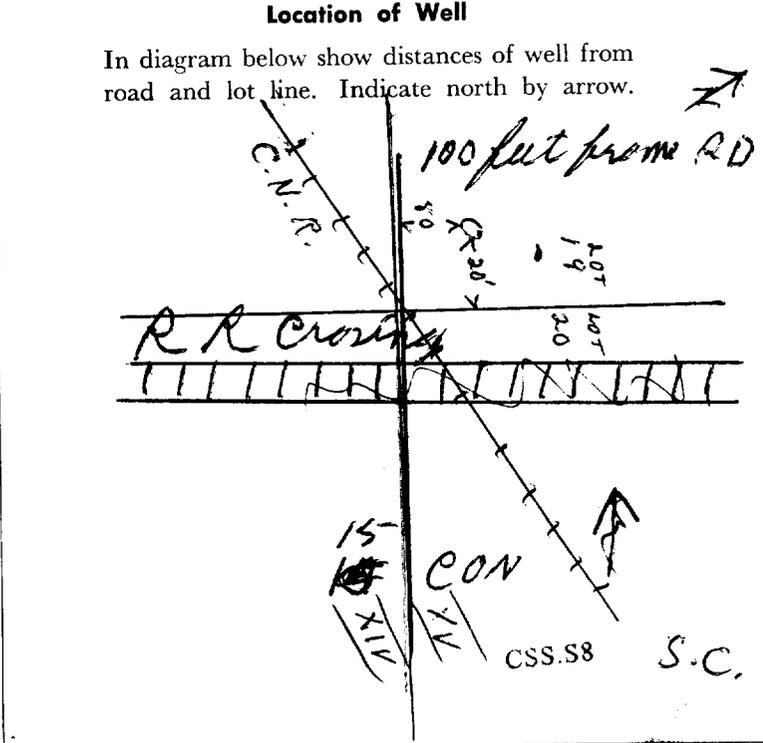
Inside diameter of casing 5 1/4
Total length of casing 71 feet
Type of screen -
Length of screen -
Depth to top of screen 5 1/4"
Diameter of finished hole 5 1/4"

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

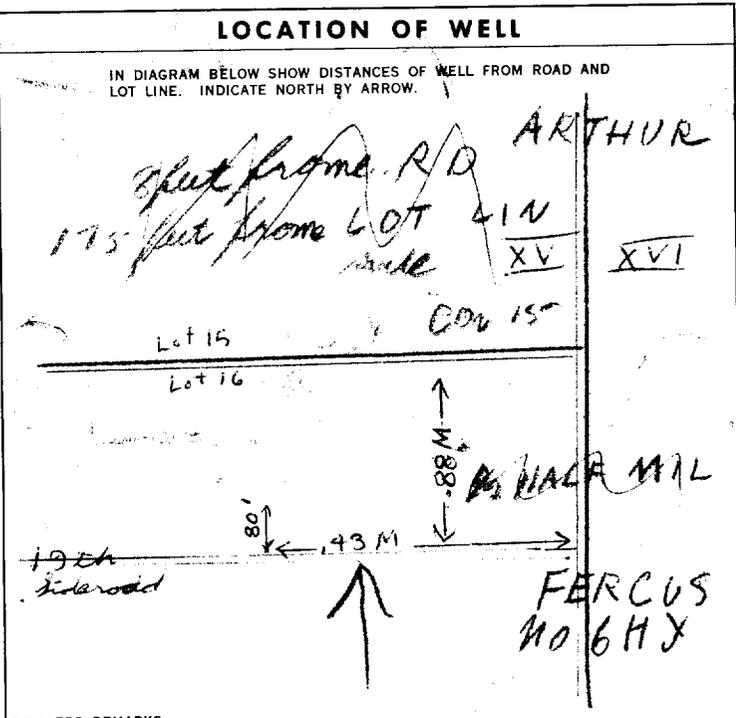
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

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: **CSS.00**



WATER WELL RECORD

40P/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

RC 39725 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
			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

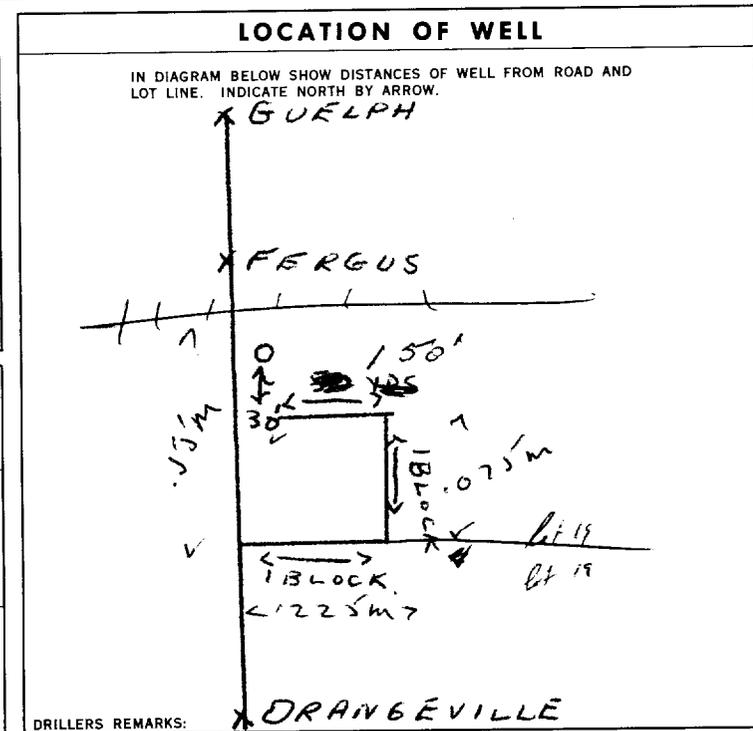
DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	
18-21	
26-29	

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: _____



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
DATE COMPLETED: DAY 22 MO. 15 YR. 71
LOT PART: 019
RC: 39950
ELEVATION: 1375
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	
			FROM	TO
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	16 ga	0014	0017
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			

SCREEN

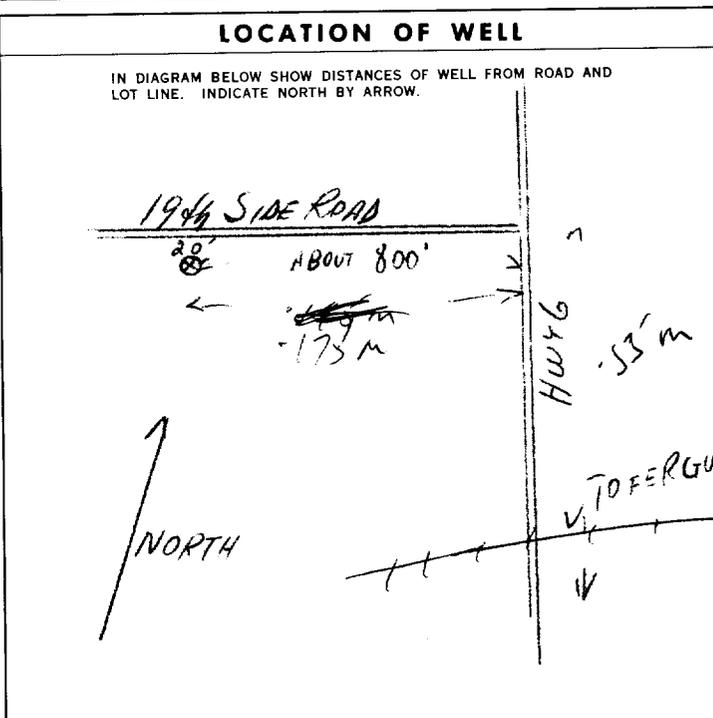
SIZE(S) OF OPENING (SLOT NO.): 31-33
DIAMETER: 34-38
LENGTH: 39-40
MATERIAL AND TYPE: SPRINGS
DEPTH TO TOP OF SCREEN: 41-44
FEET: 80

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

71 PUMPING TEST

PUMPING TEST METHOD: PUMP 2 BAILER
PUMPING RATE: 0012 GPM
DURATION OF PUMPING: 02 HOURS 00 MINS.
WATER LEVELS DURING PUMPING:
15 MINUTES: 010 FEET
30 MINUTES: 017 FEET
45 MINUTES: ~~015~~ FEET
60 MINUTES: ~~015~~ FEET
PUMP INTAKE SET AT: 15 FEET
WATER AT END OF TEST: CLEAR 2 CLOUDY
RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: 015 FEET
RECOMMENDED PUMPING RATE: 0005 GPM.
SPECIFIC CAPACITY: 001.7 GPM./FT.



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

CABLE TOOL 6 BORING
 ROTARY (CONVENTIONAL) 7 DIAMOND
 ROTARY (REVERSE) 8 JETTING
 ROTARY (AIR) 9 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: DAY 28 MO. JAN. YR. 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 WELLINGTON	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE NICHOL	CONR. BLOCK, TRACT, SURVEY, ETC. 15	LOT 009
---	---	---	-------------------

DATE COMPLETED DAY 25 MO. JAN YR. 71	ADDRESS Box 383 ERIN
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RC 40000	RC 4	ELEVATION 1375	RC 5	BASIN CODE 23
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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

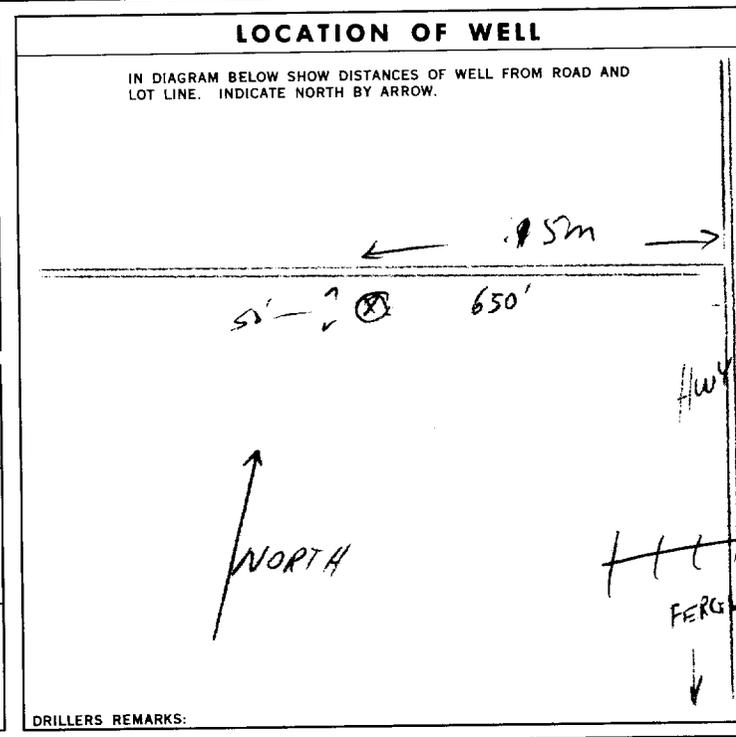
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
GRAVEL PACK		

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 0010 GPM.	DURATION OF PUMPING 15-16 HOURS 02 17-18 MINS. 00
STATIC LEVEL 009 FEET	WATER LEVEL END OF PUMPING 0017 FEET	WATER LEVELS DURING 15 MINUTES 0017 FEET 30 MINUTES 0017 FEET 45 MINUTES 0017 FEET 60 MINUTES 0017 FEET
IF FLOWING, GIVE RATE GPM.	PUMP INTAKE SET AT 15 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 015 FEET	RECOMMENDED PUMPING RATE 0005 GPM.



FINAL STATUS OF WELL

WATER USE

METHOD OF DRILLING

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: **28 JAN 71**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **3637** DATE RECEIVED: **211071**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

CSS.S8

P *[Signature]*

WI



WATER WELL RECORD

40P/9w

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

6704746

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

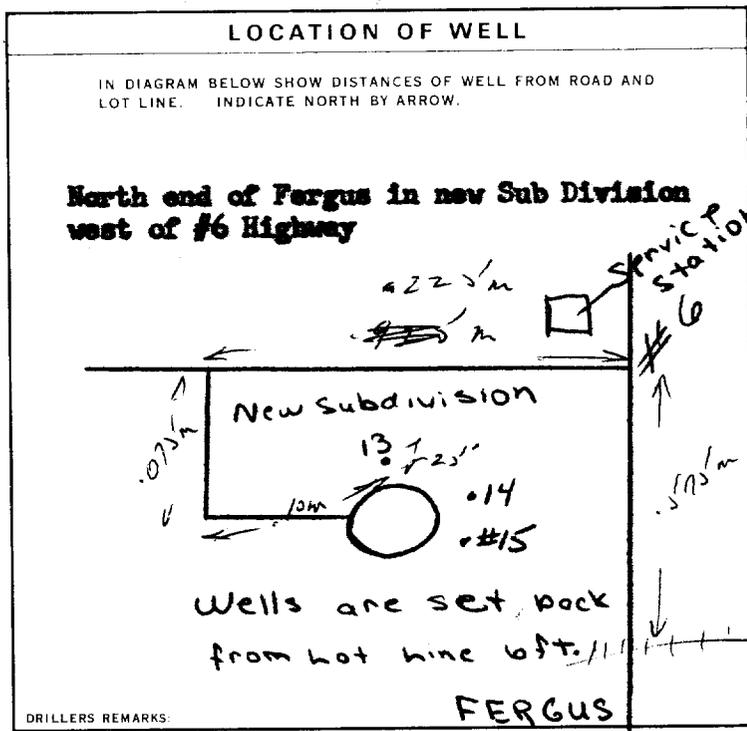
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
3' Gravel Pipe		

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: 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: 0006 GPM	DURATION OF PUMPING: 15-16 HOURS 00 MINS
STATIC LEVEL: 007 FEET	WATER LEVEL END OF PUMPING: 815 FEET	WATER LEVELS DURING PUMPING:
IF FLOWING GIVE RATE: 15 GPM	PUMP INTAKE SET AT: 15 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: 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
 OTHER 9 NOT USED

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



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 115

COUNTY OR DISTRICT: **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Nichol** CON., BLOCK, TRACT, SURVEY, ETC.: **Plan 71 XV** LOT: **25-27 019**

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
10-11	1 <input checked="" type="checkbox"/> STEEL			
30	2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	16	0	0022
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
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

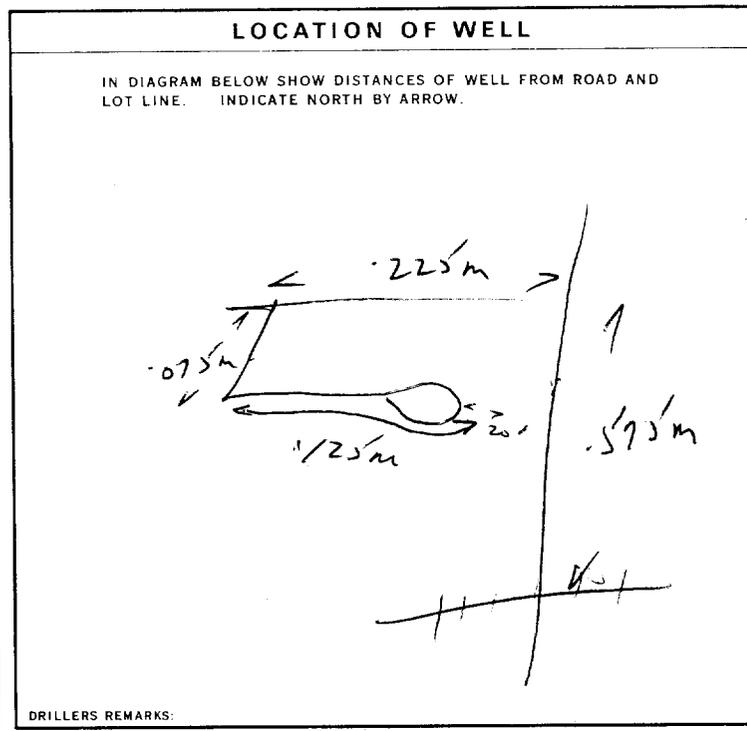
PUMPING TEST METHOD: 1 PUMP 2 BAILER

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
		26-28	29-31	32-34	35-37
		020 FEET			

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 **Wellington** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE **Nichol** CON., BLOCK, TRACT, SURVEY, ETC **Plan 71** LOT 21

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

ZONE EASTING NORTHING RC ELEVATION RC BASIN CODE
11.7 154866.0 48398.90 14 113.75 15 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	4
Grey	Sand & Gravel			4	16
Grey	Clay			16	21

31 6004605 001622811 0021205

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0006	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
	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	21
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			
	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

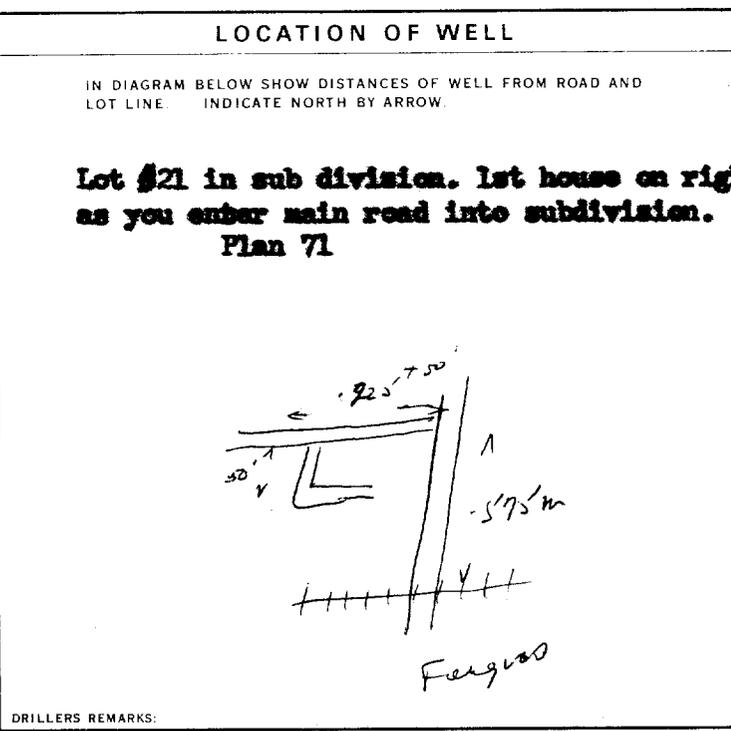
MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	0006	01 15-16 HOURS 00 17-18 MINS
STATIC LEVEL: 006 FEET	WATER LEVEL END OF PUMPING: 020 FEET	WATER LEVELS DURING:
		15 MINUTES: 26-28 FEET 30 MINUTES: 29-31 FEET 45 MINUTES: 32-34 FEET 60 MINUTES: 020 FEET
IF FLOWING, GIVE RATE: _____ GPM	PUMP INTAKE SET AT: 16 FEET	WATER AT END OF TEST: _____ FEET
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 016 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: **R.L. Franklin** LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY **24** MO. **Aug** YR. **73**

OFFICE USE ONLY

DATA SOURCE: _____ 58 CONTRACTOR: **2519** DATE COMPLETED: **290873** 59-62 63-68 80

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

CSS.S8 f/m



Ontario

WATER WELL RECORD

40 P/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**

ADDRESS: **2 Mississauga Road Mississauga Ontario**

RC: **3198510** ELEVATION: **137.5** BASIN CODE: **123**

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

51 CASING & OPEN HOLE RECORD

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

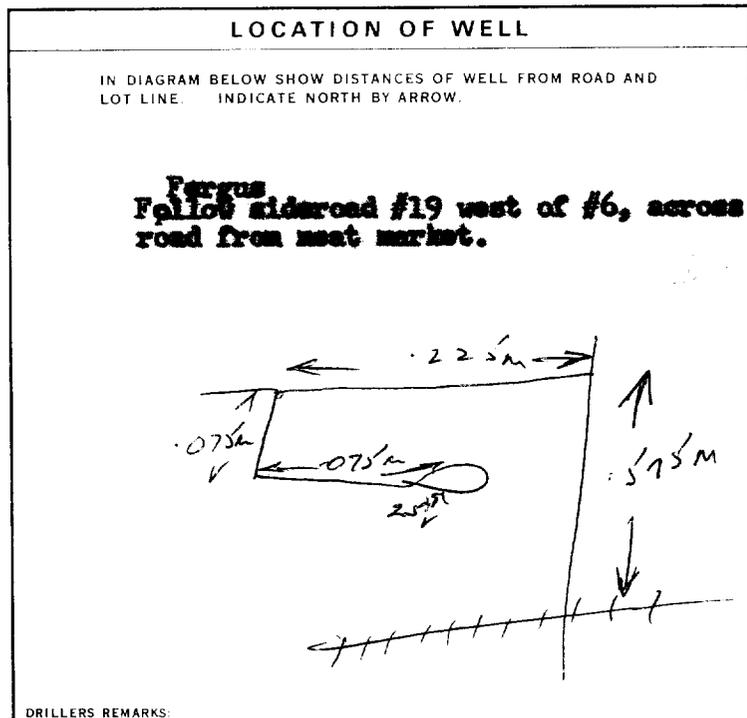
SIZE(S) OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 80

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: 2 <input checked="" type="checkbox"/> RECOVERY
IF FLOWING, GIVE RATE: 38-41 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** *[Signature]*



WATER WELL RECORD

40 P/qw

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

11 | 6705305 | 67009 | CON. | 15 | 15

10 | 15 | 22 | 23 | 24

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

FERGUS ONT. DATE COMPLETED: 48-3 DAY: 25 MO: 09 YR: 74

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

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

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0 238	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
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

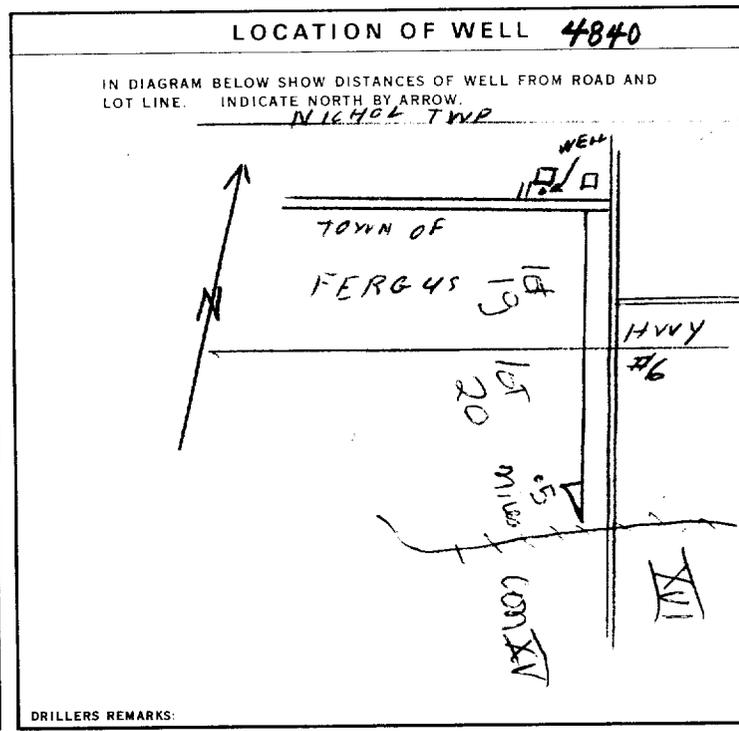
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER	0035 GPM	02 15-16 HOURS 15 17-18 MINS
STATIC LEVEL: 078 FEET	WATER LEVEL END OF PUMPING: 140 FEET	WATER LEVELS DURING:
		15 MINUTES: 100 FEET 30 MINUTES: 085 FEET 45 MINUTES: 078 FEET 60 MINUTES: 078 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT: 150 FEET	WATER AT END OF TEST: 1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 150 FEET	RECOMMENDED PUMPING RATE: 0010 GPM



54 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

55-56 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

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

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

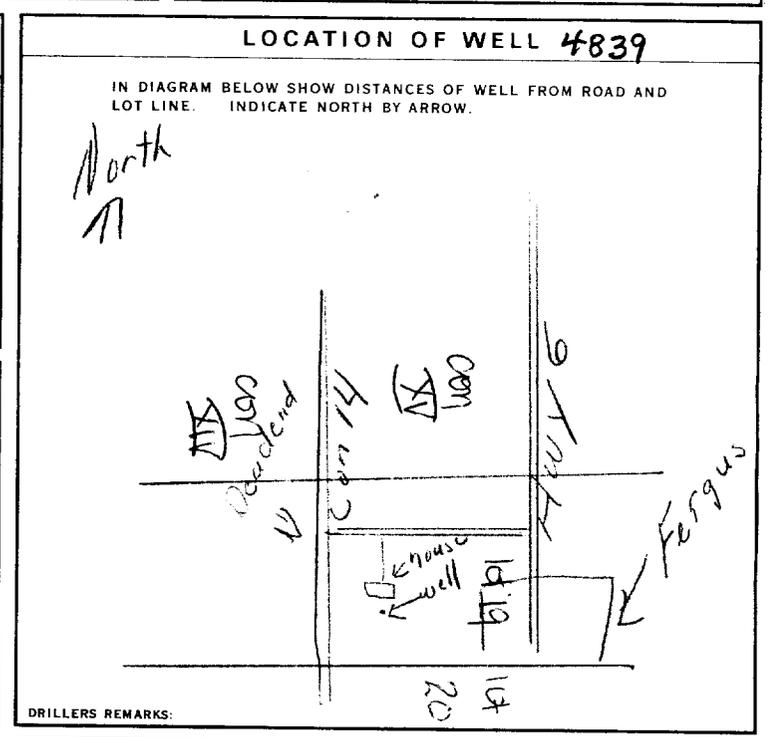
SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
MATERIAL AND TYPE	INCHES		FEET		
	DEPTH TO TOP OF SCREEN		41-44		
			FEET		

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	40

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 00 10 GPM	DURATION OF PUMPING 15-16 HOURS 17-18 MINS 01 00
STATIC LEVEL 19-21 0 18 FEET	WATER LEVEL END OF PUMPING 22-24 0 35 FEET	WATER LEVELS DURING 15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37 0 35 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT 38-41 GPM 50 FEET	WATER AT END OF TEST 42 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 43-45 0 50 FEET	RECOMMENDED PUMPING RATE 46-49 00 10 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 Hugh Morrison Well Drilling	LICENCE NUMBER 3740
ADDRESS R. R. 5, Mount Forest, Ont.	
NAME OF DRILLER OR BORER Hugh Morrison	LICENCE NUMBER 3740
SIGNATURE OF CONTRACTOR <i>Hugh Morrison</i>	SUBMISSION DATE DAY _____ MO. _____ YR. _____

DATA SOURCE 1	CONTRACTOR 3740	DATE RECEIVED 281074
DATE OF INSPECTION		INSPECTOR
REMARKS		P KP
		WI



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

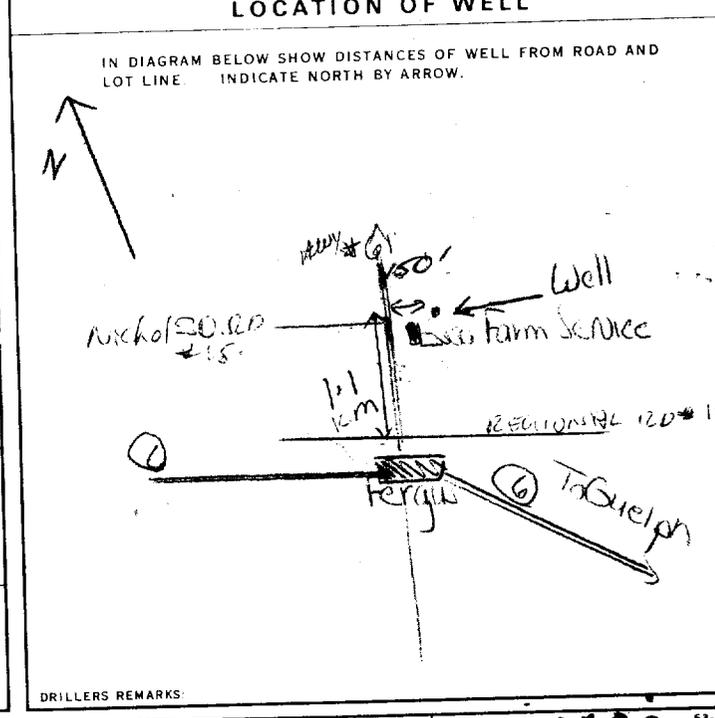
PUMP INTAKE SET AT: _____ FEET

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 2519**
LICENCE NUMBER: **2519**

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

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

SIGNATURE OF CONTRACTOR: *David Hatherton*
SUBMISSION DATE: DAY **1** MO **11** YR. **77**

OFFICE USE ONLY

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

DATE OF INSPECTION: **July 31, 1980**
INSPECTOR: *P. J. W.*

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: 25-27
DATE COMPLETED: 08 MO. 10 YR. 79
ELEVATION: 1380 BASIN CODE: 23

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 P001 82 P0104051281 FC1502811 PP28299 P039 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
30"	STEEL	1064	0-30
17-18	STEEL		20-23
24-25	STEEL		27-30

SCREEN

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

61 PLUGGING & SEALING RECORD

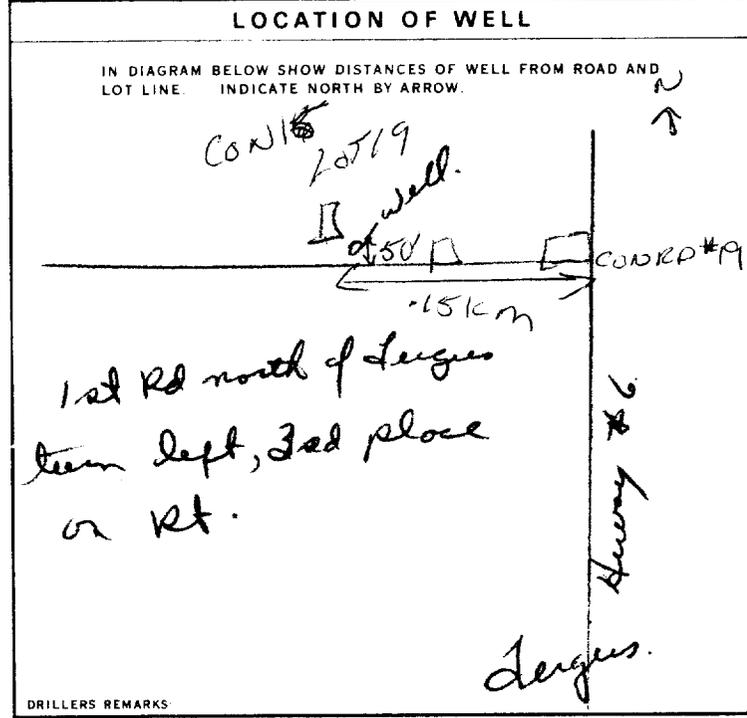
DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD: Levesque BAILER: 0005 DURATION OF PUMPING: Levesque

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

RECOMMENDED PUMP TYPE: SHALLOW DEEP



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: July 10, 1980 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

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

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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: **WILKINGTON** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **BUCHANAN TWP.** CON. BLOCK, TRACT, SURVEY, ETC.: **L10, C15** LOT: **25-27**

DATE COMPLETED: **24 June 86**

NAME: **ERRI, FERBUS, ONT.**

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

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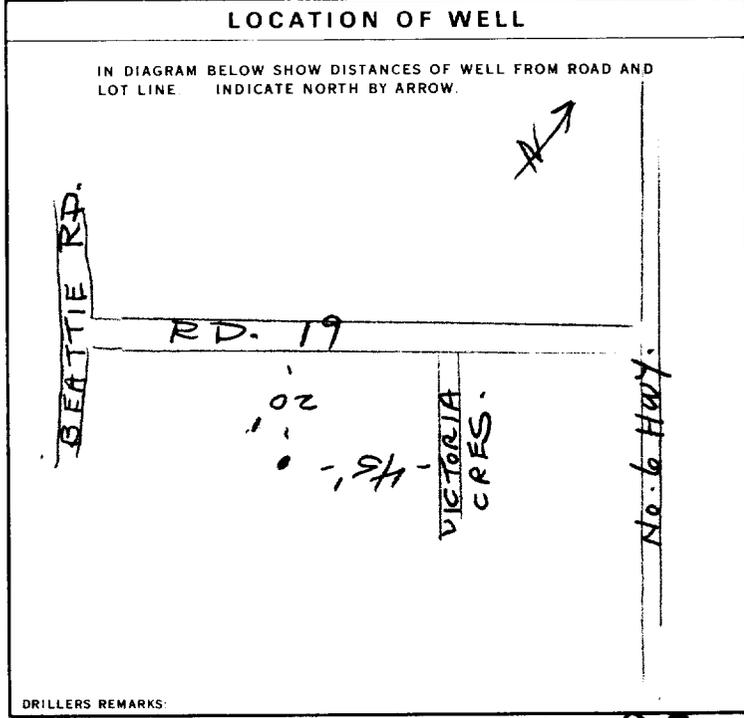
WATER FOUND AT - FEET	KIND OF WATER
135	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
153	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 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	3
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
26 FEET	60 FEET	15 MINUTES: 60 FEET 30 MINUTES: 60 FEET 45 MINUTES: 60 FEET 60 MINUTES: 60 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	60 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	80 FEET	10 GPM



FINAL STATUS OF WELL	1 <input checked="" type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED, POOR QUALITY 7 <input type="checkbox"/> UNFINISHED
WATER USE	1 <input checked="" type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL 5 <input type="checkbox"/> OTHER	5 <input type="checkbox"/> COMMERCIAL 6 <input type="checkbox"/> MUNICIPAL 7 <input type="checkbox"/> PUBLIC SUPPLY 8 <input type="checkbox"/> COOLING OR AIR CONDITIONING 9 <input type="checkbox"/> NOT USED
METHOD OF DRILLING	1 <input type="checkbox"/> CABLE TOOL 2 <input checked="" type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING

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

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		090786
DATE OF INSPECTION	INSPECTOR	
REMARKS		

6709226

MUNICIPALITY 67009

CON. 10 14 15 22 23 74

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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

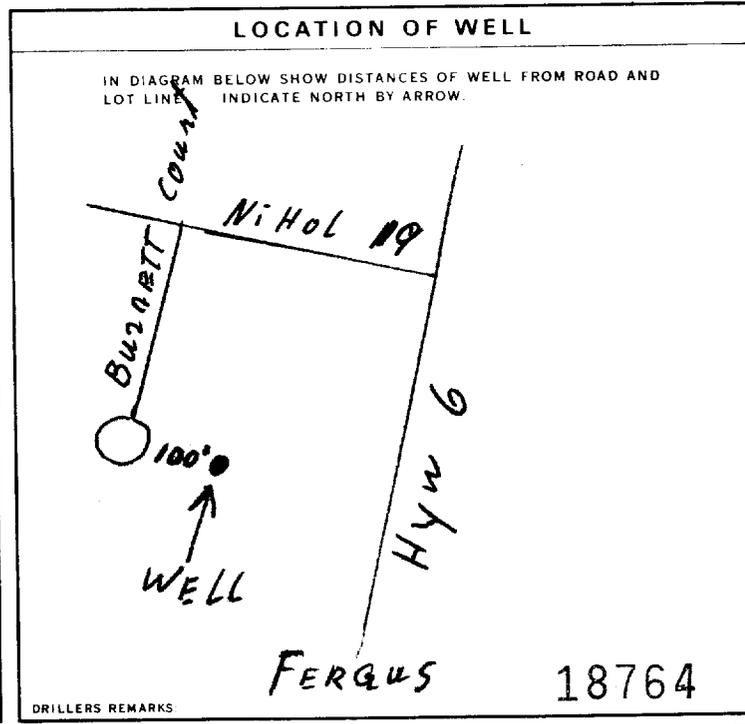
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

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

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
83	84	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		83	83	83	83

IF FLOWING: GIVE RATE PUMP INTAKE SET AT **100** FEET
RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: **100** FEET
RECOMMENDED PUMPING RATE: **10+** GPM



FINAL STATUS OF WELL

WATER SUPPLY
 OBSERVATION WELL
 TEST HOLE
 RECHARGE WELL

WATER USE

DOMESTIC
 STOCK
 IRRIGATION
 INDUSTRIAL
 OTHER

METHOD OF CONSTRUCTION

ROTARY (CONVENTIONAL)
 ROTARY (REVERSE)
 ROTARY (AIR)
 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: **Rudy's Well Drilling**
ADDRESS: **RRI Hillsburg**
NAME OF WELL TECHNICIAN: **Rudy Garbotz**
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]

WELL CONTRACTOR'S LICENCE NUMBER: **2332**
WELL TECHNICIAN'S LICENCE NUMBER: **0180**
SUBMISSION DATE: DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: **2332**
DATE RECEIVED: **MAY 19 1988**
DATE OF INSPECTION: _____
INSPECTOR: _____
REMARKS: _____

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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
17-18	STEEL			20-23
24-25	STEEL			27-30

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	

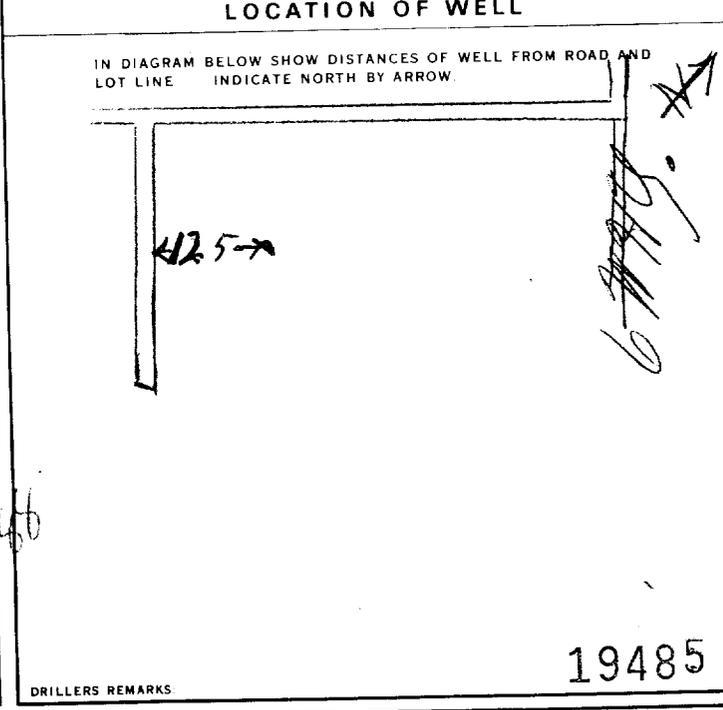
71 PUMPING TEST

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	PUMP INTAKE SET AT	WATER AT END OF TEST
	200 GPM	CLEAR

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
SHALLOW	200 FEET	6 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL

WATER USE

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL

METHOD OF CONSTRUCTION

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Albert Carley
WELL CONTRACTOR'S LICENCE NUMBER: 1906
ADDRESS: 202 D'Arny St. North
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

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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): P & G Construction
ADDRESS: Burnett 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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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
BASIN CODE: 11

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	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS
	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	4 <input type="checkbox"/> MINERALS
	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	4 <input type="checkbox"/> MINERALS
	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	4 <input type="checkbox"/> MINERALS
	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	4 <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 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

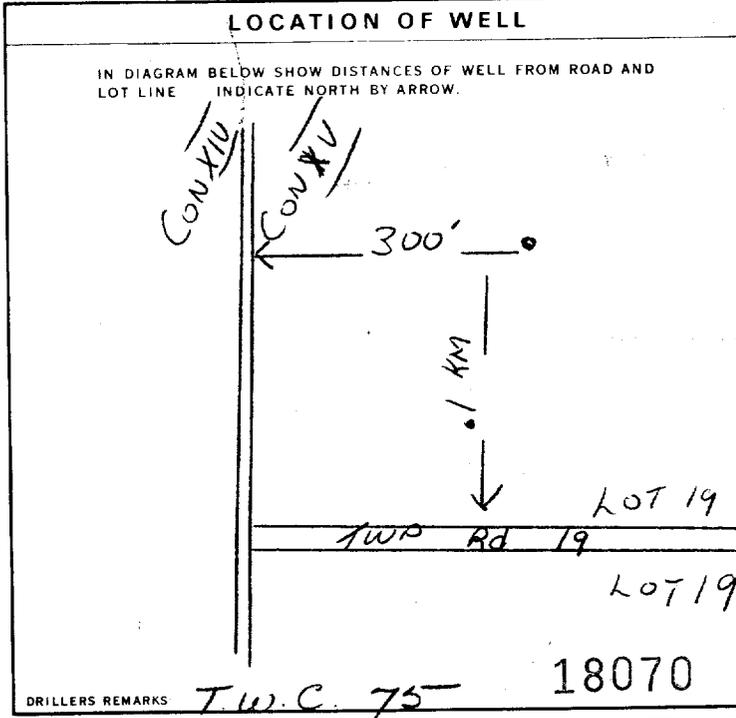
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN

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 15-16 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 <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	9 <input type="checkbox"/> DEWATERING

WATER USE

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	

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	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Lang Well Drilling Ltd
ADDRESS: RR1 Wellburg Ont
WELL CONTRACTOR'S LICENCE NUMBER: 3317
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]
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CSS.ES

WATER WELL RECORD

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

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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

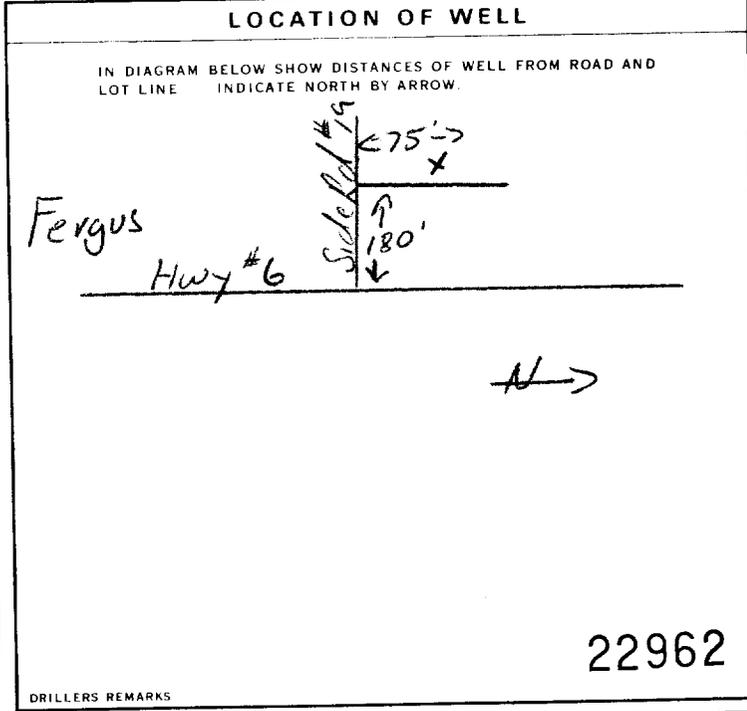
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		FEET

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 25-28 29-31 32-34 35-37	15 MINUTES 26-28 29-31 45 MINUTES 32-34 60 MINUTES 35-37	
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

COUNTY OR DISTRICT: *Wellington* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Neckel* 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>		<i>0</i>	<i>75</i>
		<i>Lime rock</i>		<i>75</i>	<i>95</i>
<i>Gray</i>		<i>rock</i>		<i>95</i>	<i>125</i>
<i>Light Brown</i>		<i>Lime rock</i>		<i>125</i>	<i>245</i>

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
<i>5 1/2</i>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC	<i>1 1/8</i>	<i>0</i>	<i>79</i>
			<i>79</i>	<i>245</i>

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	<i>10</i> GPM	<i>7</i> HOURS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
<i>76</i> FEET	<i>145</i> FEET	15 MINUTES: <i>145</i> FEET 30 MINUTES: <i>145</i> FEET 45 MINUTES: <i>145</i> FEET 60 MINUTES: <i>145</i> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	<i>160</i> GPM	<input checked="" type="checkbox"/> CLEAR
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input checked="" type="checkbox"/> SHALLOW	<i>160</i> FEET	<i>10</i> 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: **DUFFERIN** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **WINDSOR** CON. BLOCK TRACT, SURVEY ETC: **15** LOT: **25-27**
DATE COMPLETED: **4 NOV 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	GRAVEL	HOUSE	10'	12'
GRAY	CLAY	STONES -	FIRM	12'	13'

31
32

41 WATER RECORD

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

KIND OF WATER: **FRESH TEST ONLY**

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

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

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

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

30-33: 1 FRESH 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 FEET

LENGTH: 34-38 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.)
FROM	TO	
0'	10'	CEMENT TILE TOP
10'	13'	10' COVERT FILL
VOID WITH DATIVE MATERIAL REUSEAL		

71 PUMPING TEST

PUMPING METHOD: 1 PUMP 2 BAILER

PUMPING RATE: **3** GPM

DURATION OF PUMPING: 15-16 HOURS

STATIC LEVEL: **9'0"**

WATER LEVEL END OF PUMPING: **9'8"**

WATER LEVELS DURING:

15 MINUTES: 9'1"	30 MINUTES: 9'	45 MINUTES: _____	60 MINUTES: _____
-------------------------	-----------------------	-------------------	-------------------

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.

41658

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: _____

SUBMISSION DATE: **4 NOV 89**

OFFICE USE ONLY

DATA SOURCE: _____

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

115-89

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

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	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

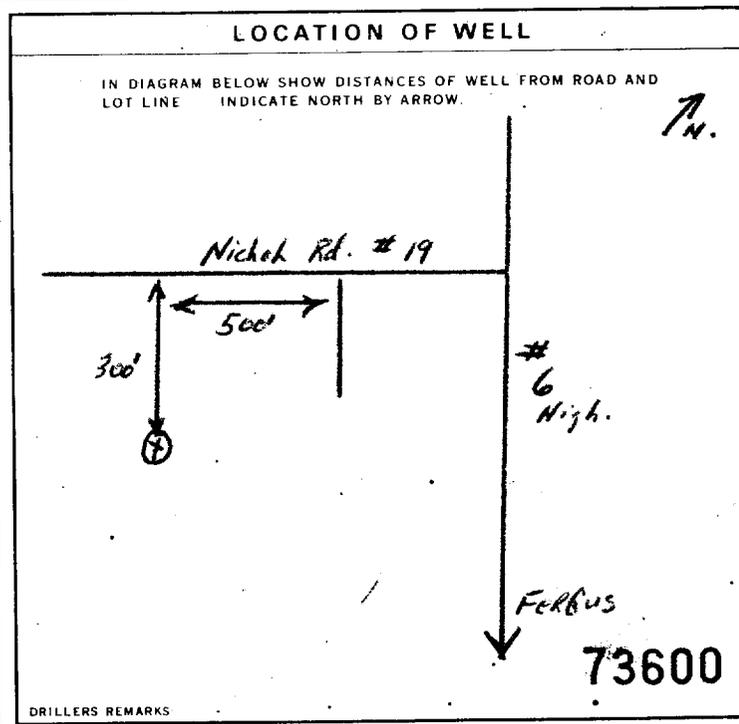
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

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
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

DATE RECEIVED: 2336 JAN 17 1990
 DATE OF INSPECTION: [Blank]
 REMARKS: [Blank]
 INSPECTOR: [Blank]



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 OF OPENING (SLOT NO. 1) 31-33 DIAMETER 34-38 LENGTH 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.)
FROM	TO	
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

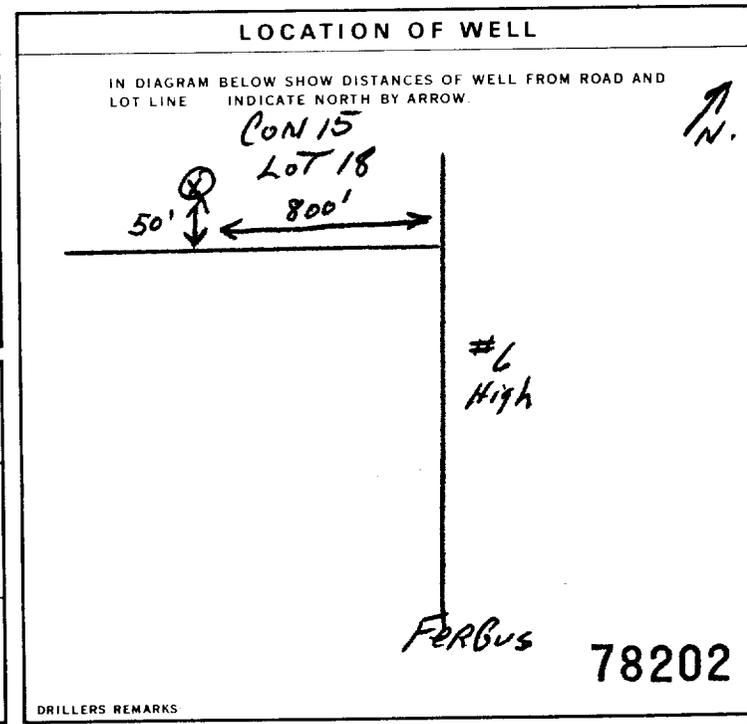
DURATION OF PUMPING: 1 HOURS

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 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: 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 CONTRACTOR: 59-62 DATE RECEIVED: JUN 11 1990

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

6710558

MUNICIP 67009

CON. CON.

115

COUNTY OR DISTRICT: [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: NICHOL CON. BLOCK, TRACT, SURVEY, ETC: XV LOT: 19

590 VICTORIA TERRACE DATE COMPLETED: 48-53 DAY: 31 MO: 08 YR: 90

FERGUS ONT NIM 265

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

32

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

1 PUMP 2 BAILER

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: 59-62 DATE RECEIVED: JAN 08 1991

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

CSS.ES

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MUNICIPALITY 67009

CONTRACTOR CON

119

COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Hillsborough 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	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 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
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	1/88	0	87
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		87	315

61 PLUGGING & SEALING RECORD

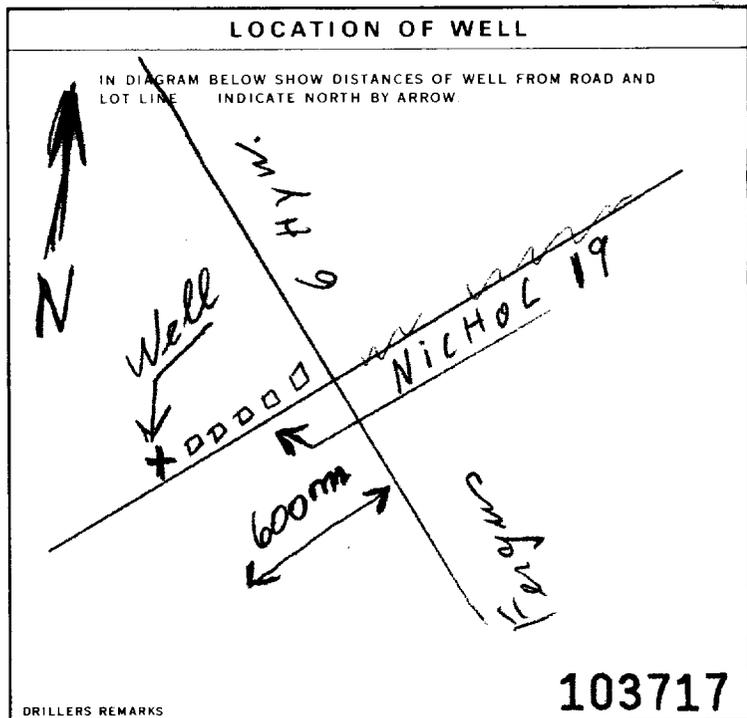
DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER
PUMPING RATE: 5 GPM
DURATION OF PUMPING: 4 HOURS 00 MINS
RECOVERY: 1 PUMPING 2 RECOVERY

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

PUMP INTAKE SET AT: 135 FEET
WATER AT END OF TEST: 1 CLEAR 2 CLOUDY
RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: 135 FEET
RECOMMENDED PUMPING RATE: 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: Rudy's Well Drilling
ADDRESS: RRI Hillsburg
NAME OF WELL TECHNICIAN: Rudy Garbotz
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
WELL CONTRACTOR'S LICENCE NUMBER: 2332
WELL TECHNICIAN'S LICENCE NUMBER: 0180
SUBMISSION DATE: DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACT NO.: 2332 DATE RECEIVED: MAR 16 1992
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

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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	Topsoil - Fill			0	4
Bn	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"/>
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
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
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			20-25
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

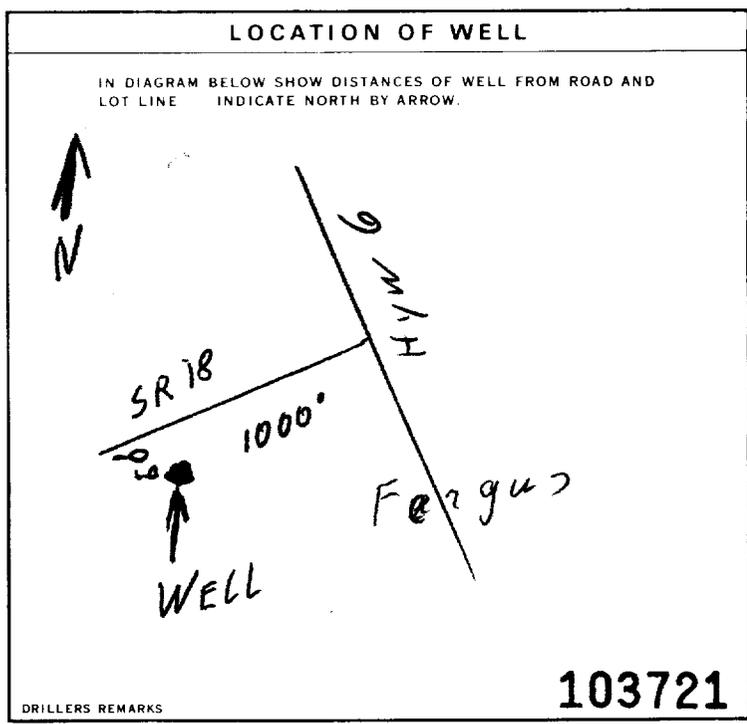
SIZE(S) OF OPENING (SLOT NO)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

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	

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	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	95 FEET	10 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
 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: 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: _____ INSPECTOR: _____
REMARKS: _____

CSS.ES

6711253

MUNICIPALITY 67009

CON.

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COUNTY OR DISTRICT: **WATERLOO** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **NICHOL TWP** CON. BLOCK, TRACT, SURVEY, ETC: **CON 15** LOT: **18**
DATE COMPLETED: DAY **29** MO **6** YR **93**

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 + GRV + LMSN + SAND **93-135**

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"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 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 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 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
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	.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	LENGTH
	INCHES	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.)
FROM TO		
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING METHOD: 1 PUMP 2 BAILER
PUMPING RATE: **10** GPM
DURATION OF PUMPING: 15-16 HOURS 0 MIN.

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: YES NO
PUMP INTAKE SET AT: **135** FEET
WATER AT END OF TEST: CLEAR CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP
RECOMMENDED PUMP SETTING: **90** FEET
RECOMMENDED PUMPING RATE: **8** GPM

LOCATION OF WELL

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

SR 18 NICHOL

093832

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 DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: **ADVANCED WATER SYSTEMS INC** WELL CONTRACTOR'S LICENCE NUMBER: **6624**
ADDRESS: **33 HAYS AVE GURPH**

NAME OF WELL TECHNICIAN: **JEFF ANDERSON** WELL TECHNICIAN'S LICENCE NUMBER: **10543**
SIGNATURE OF TECHNICIAN/CONTRACTOR: *Jeff Anderson* 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

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MUNICIP 67009

CON.

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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

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
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

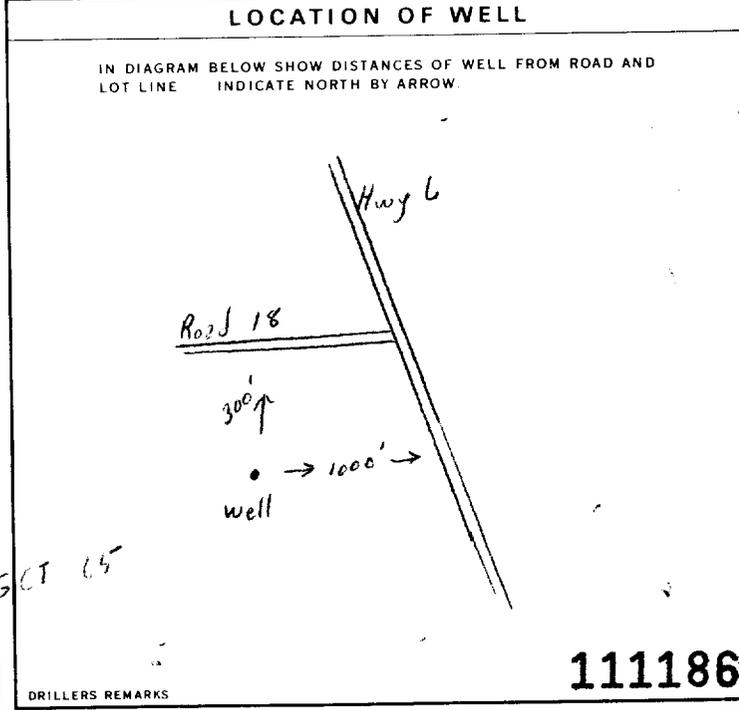
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		DEPTH TO TOP OF SCREEN
		FEET

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



Ministry
of the
Environment

The Ontario Water Resources Act

WATER WELL RECORD

6711379

MUNICIP. 67,009

CON. 15 22 23 24

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COUNTY OR DISTRICT: [Redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Michal CON. BLOCK, TRACT, SURVEY ETC: 18 sidmud LOT: 5

DATE COMPLETED: 48-53
DAY: 25 MO: 1 YR: 99

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	Clay			0	1
=	Sand	sandy clay		1	2
=	Sand			2	9
Gray	Sand			9	14
Brown	Clay	Sandy clay		14	19

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	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	14
9-14	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	19
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	24
20-23	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	29
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/> OTHER	34
30-33	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	39

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input type="checkbox"/> STEEL 2 <input checked="" type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	18	0	19
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 OF OPENING (SLOT NO.)	DIAMETER	LENGTH
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	34-37

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	GPM	15-16 HOURS 17-18 MIN.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
9 FEET	FEET	15 MINUTES 26-28 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	1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <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 Limit
Hwy 6
Road 18
1000' →

Town of Ferguson

111190

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 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	10 <input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Speedy Water Wells WELL CONTRACTOR'S LICENCE NUMBER: 4854

ADDRESS: RN #1 St Agatha

NAME OF WELL TECHNICIAN: Vic Ridgeman WELL TECHNICIAN'S LICENCE NUMBER: T0332

SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY _____ NO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 4854 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

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 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

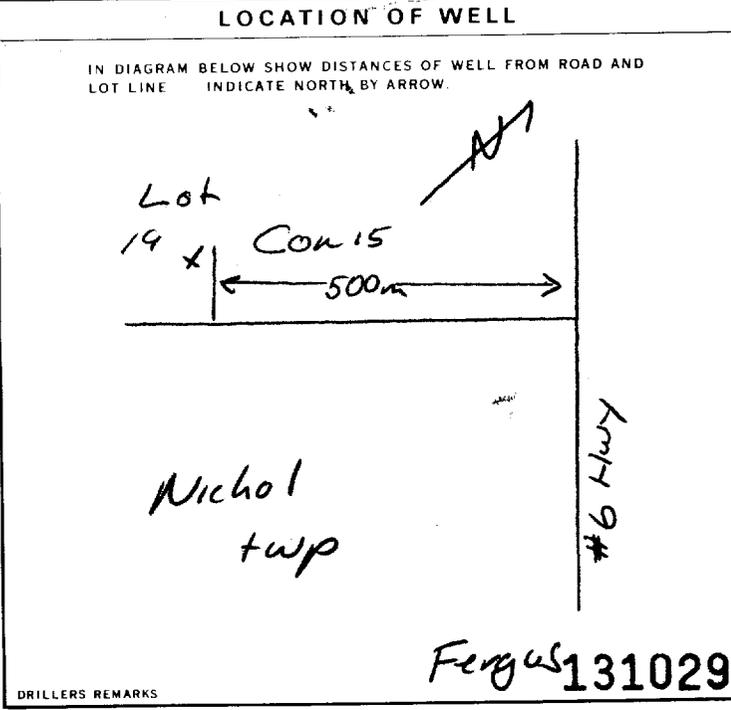
WATER LEVELS DURING PUMPING:

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 160 FEET

RECOMMENDED PUMPING RATE: 6-7 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 5 BORING

2 ROTARY (CONVENTIONAL) 6 DIAMOND

3 ROTARY (REVERSE) 7 JETTING

4 ROTARY (AIR) 8 DRIVING

9 DIGGING 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: []

INSPECTOR: []

REMARKS: []

CSS.ES

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11 6711726 MUNICIPAL 67009 CON. 15

COUNTY OR DISTRICT: **NEW BRUNSWICK** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **NICHOL (Roll No. 3-091-00)** CON. BLOCK TRACT SURVEY ETC: **CON. 15** LOT: **25-27 Pt. 18**
 WELL NO.: **R No. 1 FERGUS ONT.** DATE COMPLETED: **48-53 DAY 17 MO 05 YR 95**
 ELEVATION: **203** BASIN CODE: **II**

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
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER		
5'10"	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	34-30

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

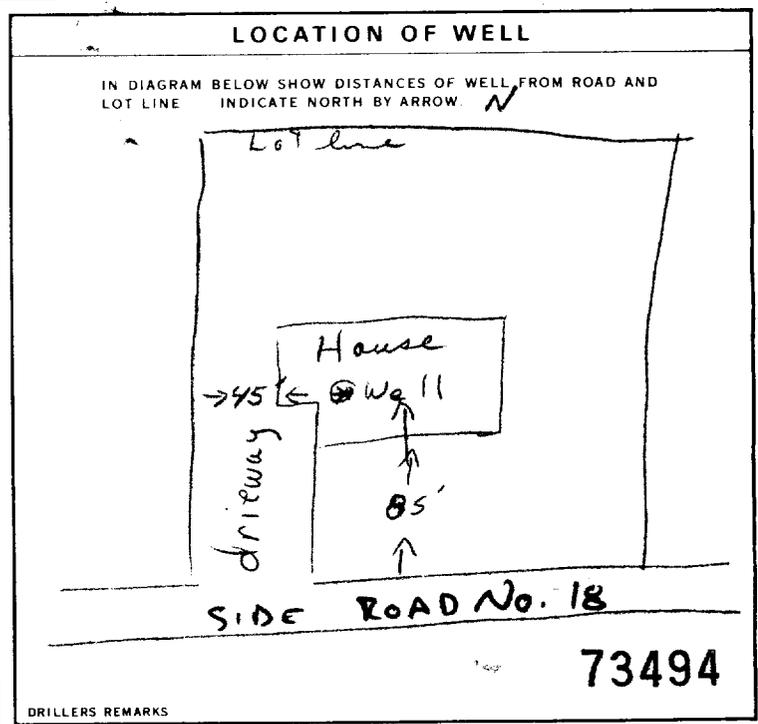
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

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
58 FEET	86 FEET	15 MINUTES: 86 FEET 30 MINUTES: 86 FEET 45 MINUTES: 86 FEET 60 MINUTES: 86 FEET
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
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	9' FEET	5 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: **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: **7-0680**
 SIGNATURE OF TECHNICIAN/CONTRACTOR: **Robert Shirbey** SUBMISSION DATE: **DAY 25 MO 05 YR 95**

OFFICE USE ONLY

DATA SOURCE: **6030** CONTRACTOR: **6030** DATE RECEIVED: **JUN 06 1995**
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: **COULD NOT LOCATE ORIGINAL W.W. RECORD, JUNE 7/95, AS.**

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Mark correct box with a checkmark, where applicable.

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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>

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>

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	Material and type	Depth at top of screen feet

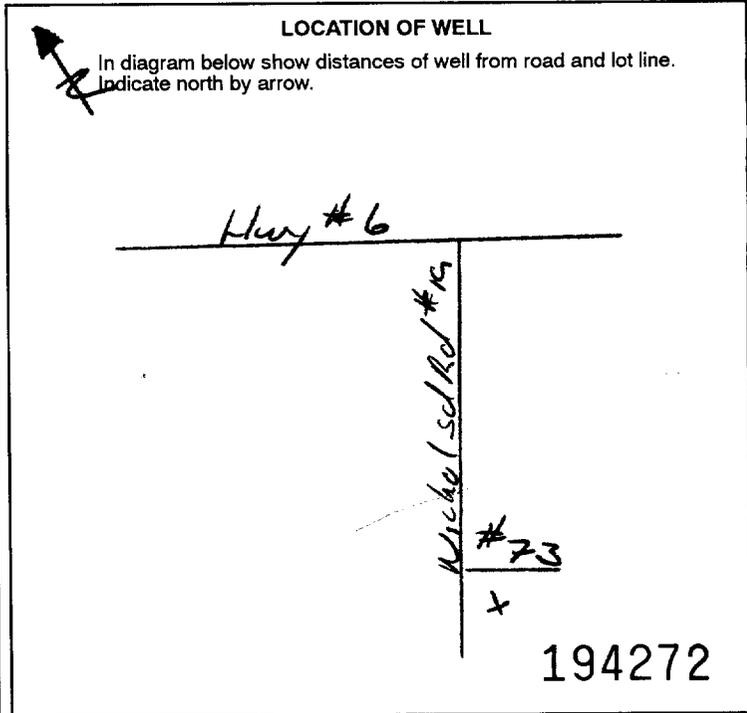
PLUGGING & SEALING RECORD		
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
<u>0</u>	<u>40</u>	<u>Benzocal</u>

71 Pumping test method: ADA Pumping rate: 7.8 GPM Duration of pumping: 1 hour 1 min

Static level: 80 feet Water level end of pumping: 80 feet

Water levels during: 15 minutes: 80 feet, 30 minutes: 80 feet, 45 minutes: 80 feet, 60 minutes: 80 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.: 2576
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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1 2

6712675

Municipality
67009

Con.
CON 15

95-98

County or District WELLINGTON	Township/Borough/City/Town/Village NICHOL TWP	Con block tract survey, etc. CON 15	Lot 18
Address RR#1 FERGUS, ONT NICHOL RD #18		Date completed 13 10 98	
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
TOTAL DEPTH				180'	
6" DRIVE SHOE					

31 _____

32 _____

41 WATER RECORD

Water found at - feet	Kind of water
10-13 170-180	<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
6"	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	.188	+1	93
6"	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic			93 180
	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic			

SCREEN

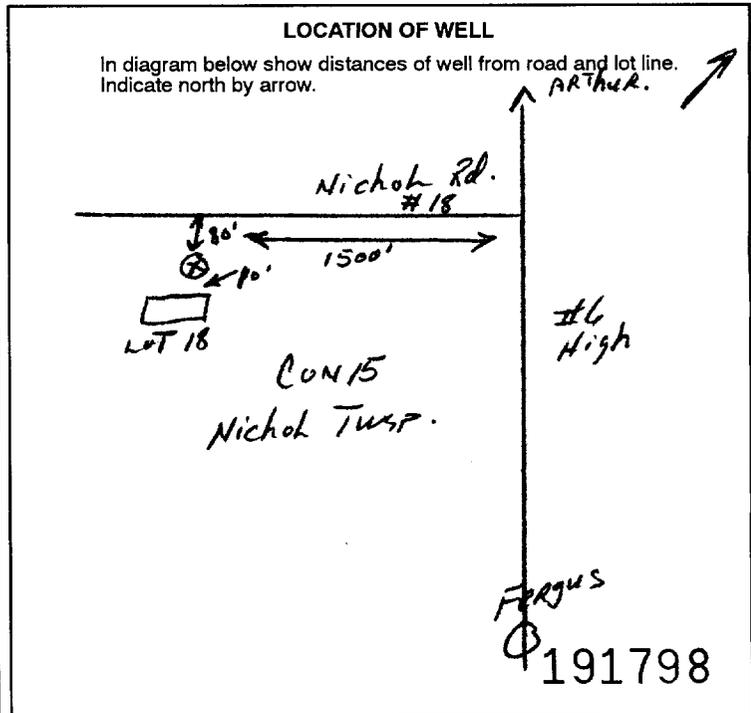
Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type		Depth at top of screen feet

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 25	BENTONITE
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 6 GPM	Duration of pumping Hours 1 Mins 0
Static level 67 feet	Water level end of pumping 105 feet	Water levels during Pumping
		15 minutes 90 feet 30 minutes 98 feet 45 minutes 103 feet 60 minutes 105 feet
If flowing give rate GPM	Pump intake set at feet 130	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 feet	Recommended pump rate 6 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 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 <i>R. Graham</i>	Submission date 030 010 98

MINISTRY USE ONLY

Data source	Contractor 2336	Date received OCT 28 1998
Date of inspection	Inspector	
Remarks CSS. ES9		

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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: 25-27
 Address: RR#1 FERGUS, ONT. NIM-2W3 Date completed: 23 11 98
 Northing 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	CLAY	SAND		0	30
GREY	CLAY	STONES		30	87
BROWN	ROCK			87	220
TOTAL DEPTH				220'	
6" DRIVE SHOE.					

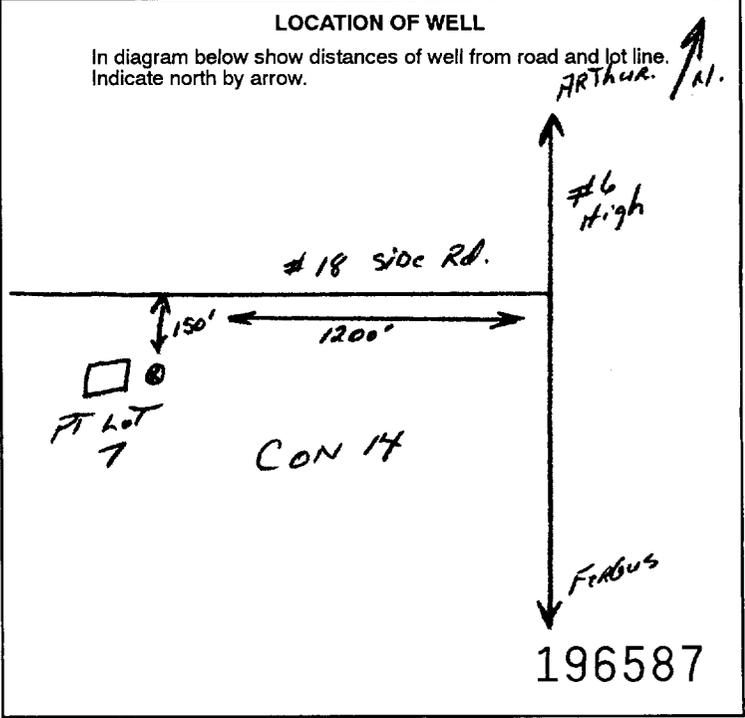
41 WATER RECORD			
Water found at - feet	Kind of water		
10-13 160	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	14
15-18 200-220	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	19
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	24
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	29
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	34

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	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
	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
	Material and type	inches	feet

61 PLUGGING & SEALING RECORD			
Annular space		Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
0	23	BENTONITE	
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"/> Bailer	10 GPM	1 Hours 0 Mins
Static level	Water level end of pumping	Water levels during	
19-21 67 feet	22-24 111 feet	15 minutes 26-28 85 feet	30 minutes 29-31 97 feet
If flowing give rate		Pump intake set at	
38-41 GPM		42 feet	
Recommended pump type		Recommended pump setting	
1 <input type="checkbox"/> Shallow 2 <input checked="" type="checkbox"/> Deep		43-45 130-140 feet	
		Recommended pump rate	
		46-49 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

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

11

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 2B3 Date completed 30 10 98
day month year

21 22 23 24 25 26 27 28 29 30 31 32

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

31 32

41 WATER RECORD

Water found at - feet	Kind of water					
75	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas
81	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas
	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals	<input type="checkbox"/> Gas	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6"	Steel		11	64
6"	Galvanized		64	81
	Steel			
	Galvanized			
	Concrete			
	Open hole			
	Plastic			
	Steel			
	Galvanized			
	Concrete			
	Open hole			
	Plastic			

REPERATED NINE

SCREEN

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

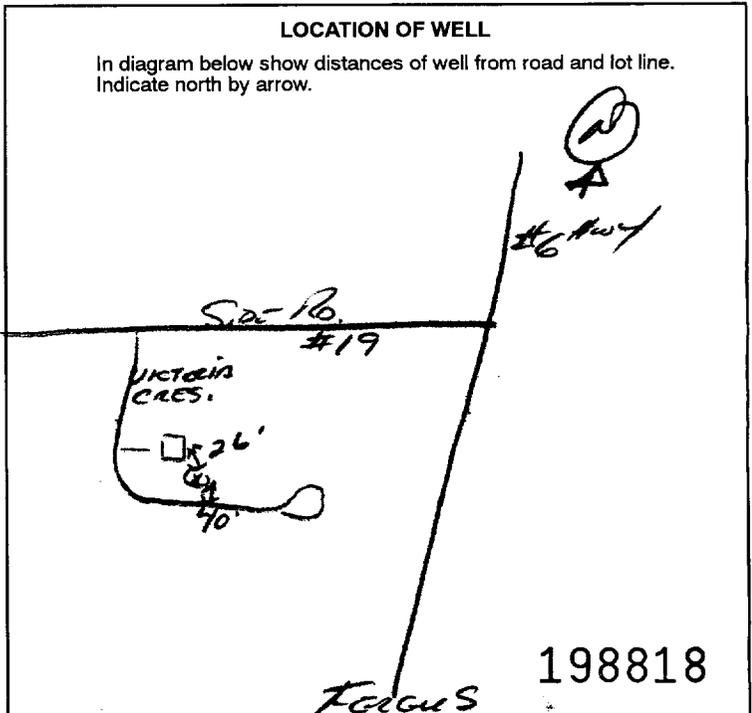
Material and type _____ Depth at top of screen _____ feet

61 PLUGGING & SEALING RECORD

Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
0	20	SEWSEAL

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
<input checked="" type="checkbox"/> Pump	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 checked="" type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		4 GPM



FINAL STATUS OF WELL

<input 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 checked="" 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 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 2663 Contractor 2663 Date received DEC 21 1998

Date of inspection _____ Inspector _____

Remarks _____

GSS. ES9

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Mark correct box with a checkmark, where applicable.

11

6712890

Municipality
67009

Con.
CON 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

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>

WATER RECORD		CASING & OPEN HOLE RECORD	
Water found at - feet	Kind of water	Inside diam inches	Material
<u>302</u>	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty	<u>6</u>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic
			Wall thickness inches: <u>1.88</u>
			Depth - feet: <u>+1</u> to <u>254</u>
			Depth - feet: <u>254</u> to <u>318</u>

PLUGGING & SEALING RECORD	
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)
<u>0</u> to <u>45</u>	<u>Benseal</u>

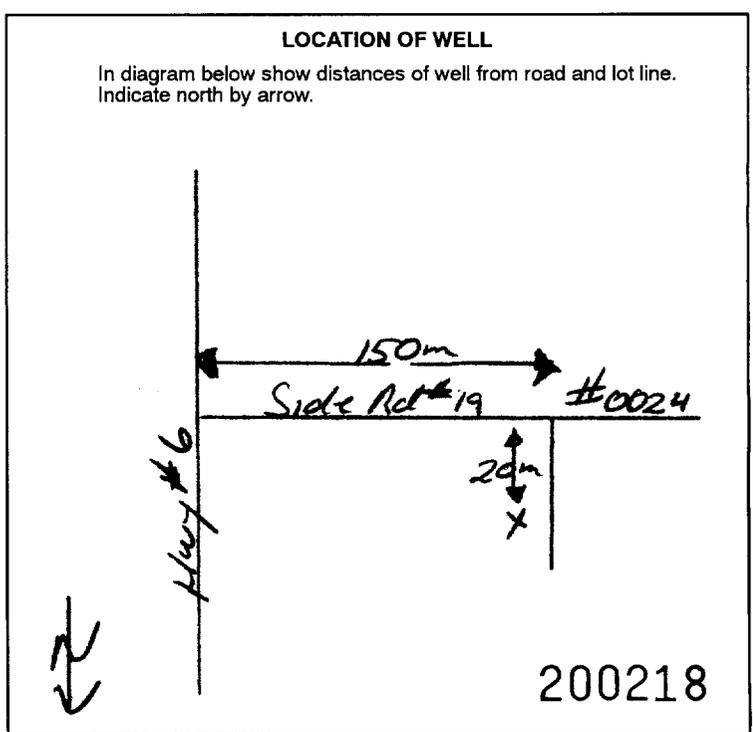
71 Pumping test method: Pump Bailor Pumping rate: 3-4 GPM Duration of pumping: 15 minutes

Static level: 118 feet Water level end of pumping: 190 feet

Water levels during: 15 minutes: 150 feet, 30 minutes: 155 feet, 45 minutes: 160 feet, 60 minutes: 165 feet

If flowing give rate: 3 GPM Pump intake set at: 250 feet Water at end of test: Clear Cloudy

Recommended pump type: Shallow Deep Recommended pump setting: 250 feet Recommended pump rate: 3 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: Highland Water Works Well Contractor's Licence No.: 2576

Address: Box 141 Durham NOG 1K0

Name of Well Technician: Nigel Popstefan Well Technician's Licence No.: 72130

Signature: [Signature] Submission date: 30 day 01 yr 99

MINISTRY USE ONLY

Data source: 2576 Contractor: 2576 Date received: FEB 05 1999

Date of inspection: Inspector: CSS.ES9

Remarks:

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

11

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
Municipality: 67009 Con. CON 15

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

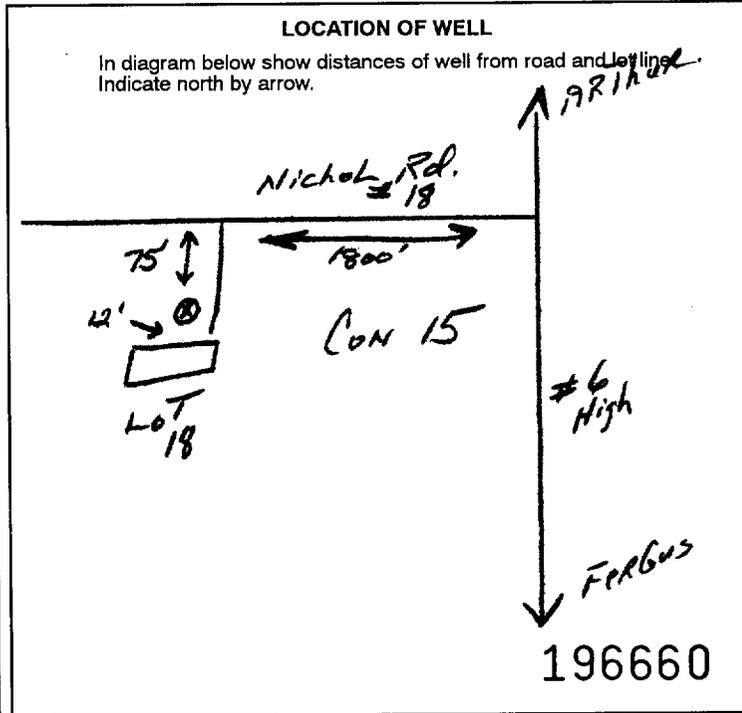
61 PLUGGING & SEALING RECORD

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: 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

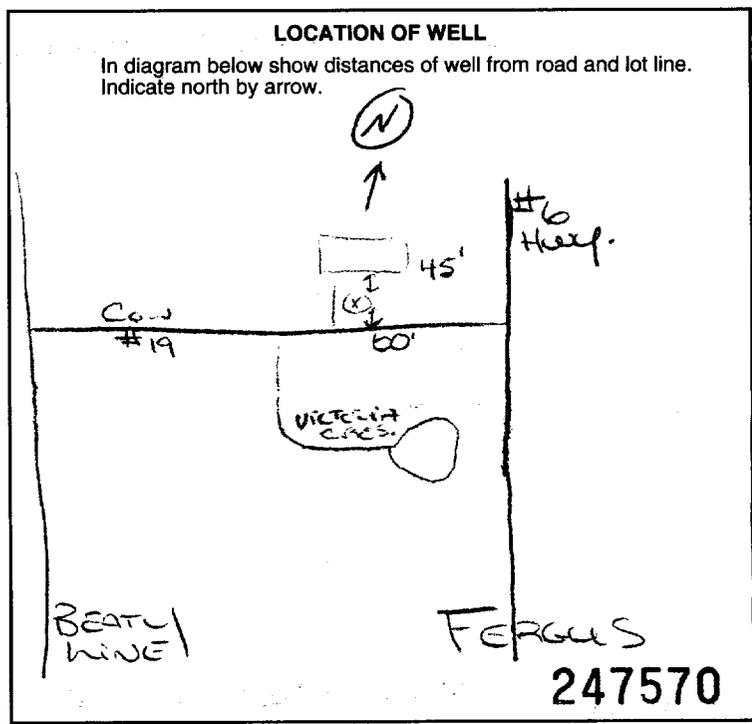
41 WATER RECORD			
Water found at - feet	Kind of water		
185	1 <input checked="" type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	14
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	15
		5 <input type="checkbox"/> Gas	16
	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> 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
	Material and type		Depth at top of screen
			41-44
			45-48
			49-52
			53-56
			57-60

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	14-17	BENSEAL
18-21	22-25	
26-29	30-33	
	34-37	
	38-41	
	42-45	
	46-49	
	50-53	

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	42	42	
GPM	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	160 feet	3 GPM	



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: HANCOCK 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: [Signature]	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

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 2 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
Black	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 10 14 15 21 32 43 54 65 75 80

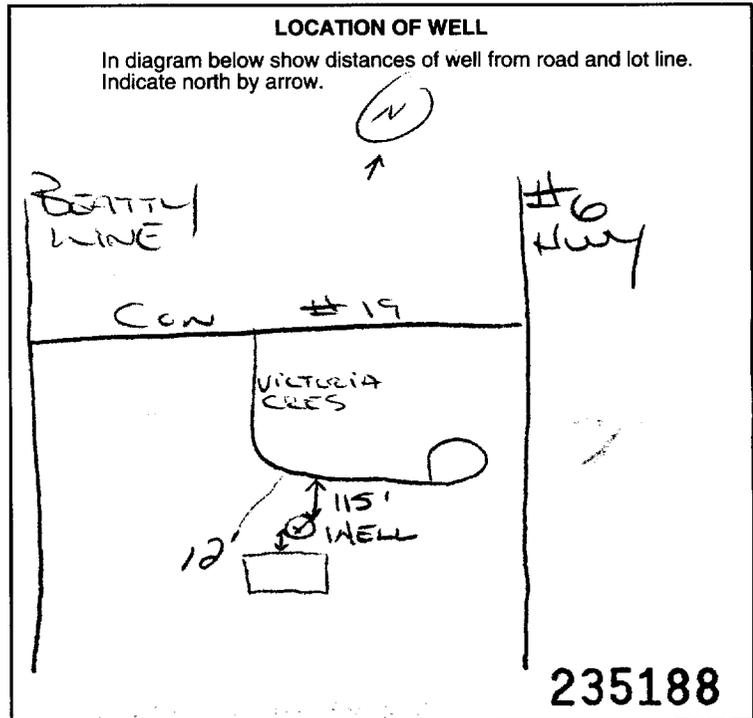
41 WATER RECORD			
Water found at - feet	Kind of water		
10-13 200	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
15-18 245	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
20-23 UNTESTED	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 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
17-18 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
24-25 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	
10-13 0	14-17 20	SEWELK
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	10	6 GPM	1 Hours 15-16 Mins
Static level	Water level end of pumping	Water levels during	
19-21 92 feet	22-24 108 feet	15 minutes 26-28 100 feet	30 minutes 29-31 106 feet
		45 minutes 32-34 108 feet	60 minutes 35-37 108 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 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

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

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
GREY	SAND			2.43	3.04
GREY	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				Recovery					
Water found at	Metres	Kind of Water	Outside diam	Material	Slot No.	Recommended pump type	Time min	Water Level Metres	Time min	Water Level Metres		
1.52	m	Fresh		Concrete		Shallow	3		3			
2.43	m	Fresh		Concrete		Deep	4		4			
After test of well yield, water was			No Casing or Screen				NO PUMPABLE WATER ON COMPLETION					
<input checked="" type="checkbox"/> Clear and sediment free			<input type="checkbox"/> Open hole									
<input type="checkbox"/> Other, specify												
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
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 45m

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.

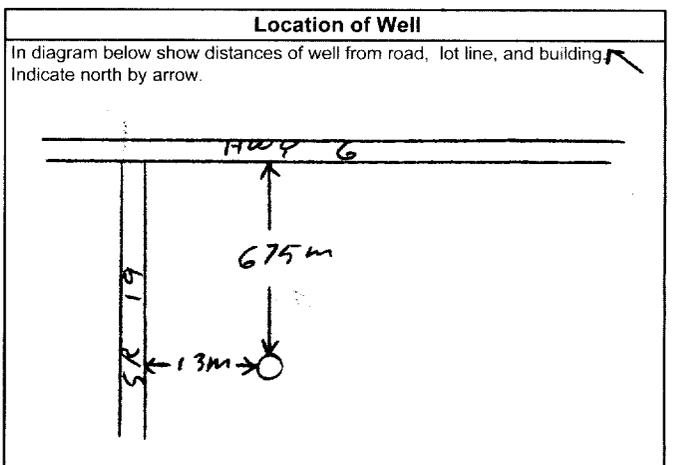
Plugging and Sealing Record section. Includes table for Depth set at, Material and type (BENTONITE SLURRY), and Volume Placed.

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 BROADFOOT), and Signature of Technician/Contractor.



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).

ABANDONMENT

No WELL TAG.

060397-AMEC-H

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- 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
ABANDONMENT.					

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
Casing				
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<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	
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 From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	3.6	BENTONITE SLURRY	

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

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.
SEE ATTACHED MAP.

Audit No. **Z 44249** Date Well Completed **2006 03 31**
 Was the well owner's information package delivered? Yes No Date Delivered _____

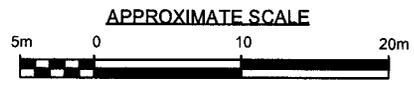
Well Contractor/Technician Information

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 _____

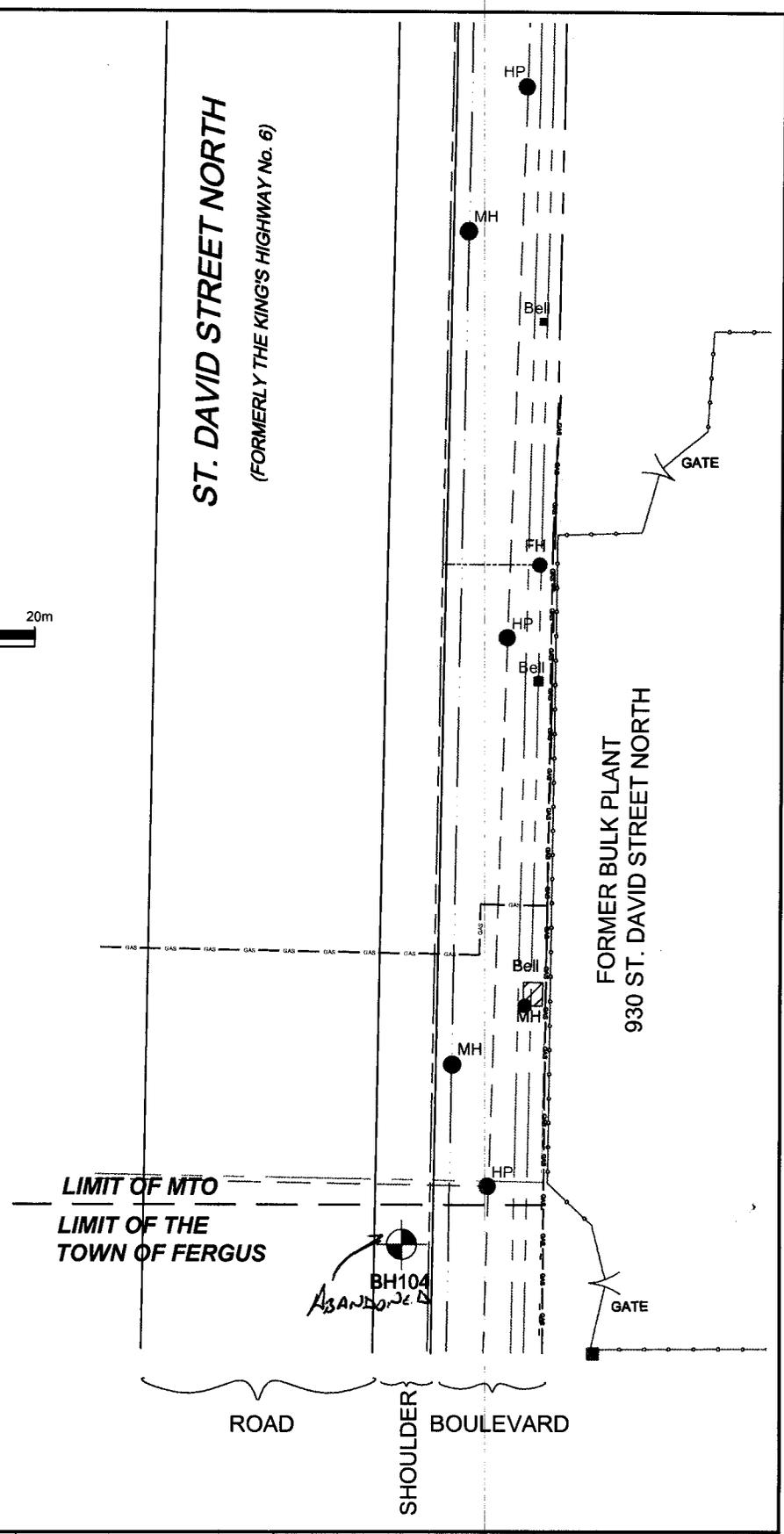
TRACEY



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.

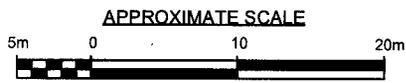


	Date:	Approximate Scale:	Project No.:
	February 2005	1 : 500	
 930 St. David Street North Fergus, Ontario	Drawn by:	Approved by:	Figure No.: 3 Borehole Location Plan
	KH	PN	

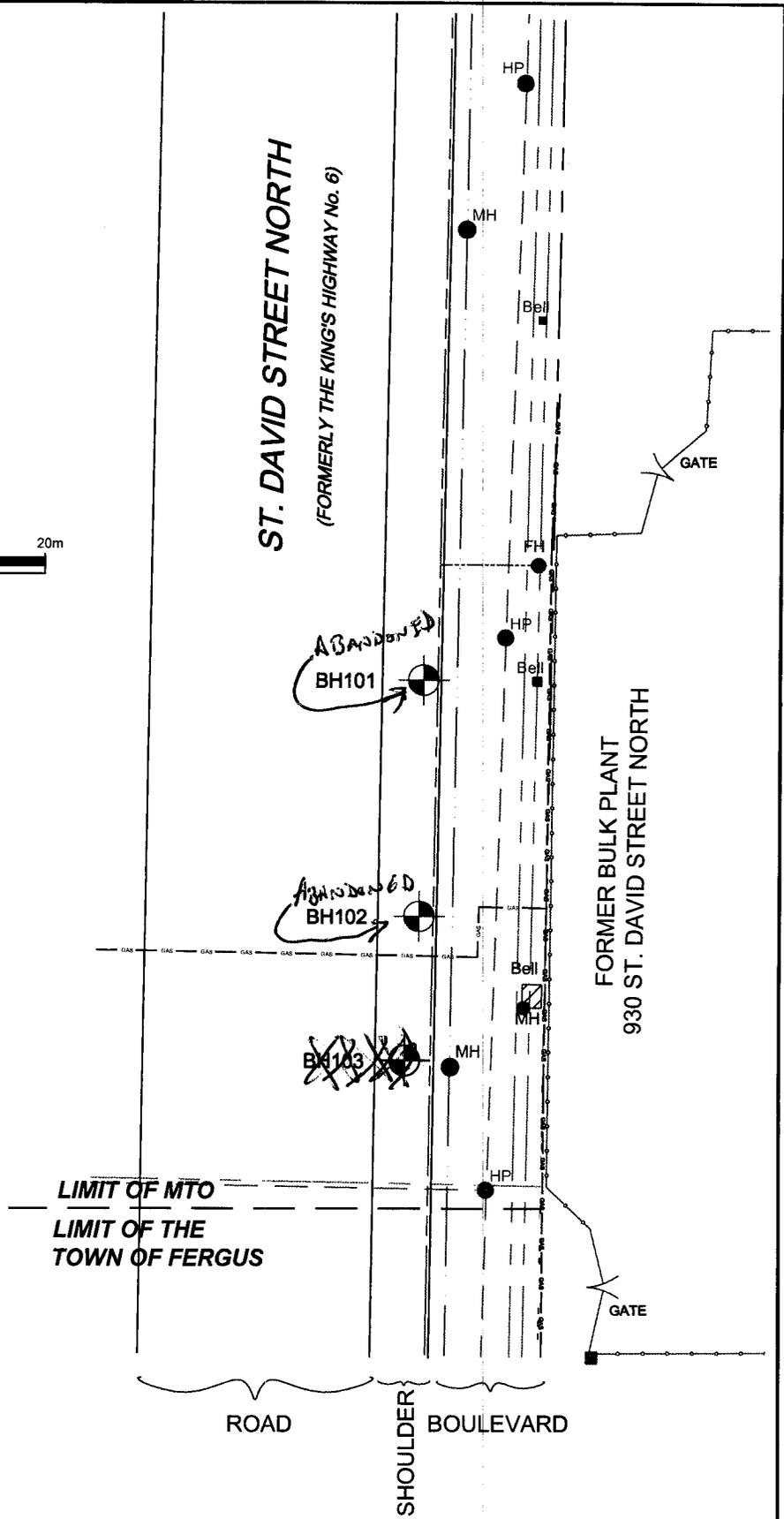
6607

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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- 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			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam. centimetres	Material	Wall thickness centimetres	Depth Metres		Pumping test method	Draw Down		Recovery	
0	3.6	21				From	To		Time min	Water Level Metres	Time min	Water Level Metres
Water Record Water found at 1.8 metres / Kind of Water <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:			Casing <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				Pump intake set at - (metres) Static Level Pumping rate - (litres/min) 1 Duration of pumping 2 hrs + 2 min Final water level end of pumping 3 metres Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep Recommended pump depth 5 metres Recommended pump rate (litres/min) 15 If flowing give rate (litres/min) 20 If pumping discontinued, give reason.					
After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify			Screen Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No.				Recommended pump rate (litres/min) 25 If flowing give rate (litres/min) 25 If pumping discontinued, give reason.					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			No Casing or Screen <input type="checkbox"/> Open hole				Recommended pump rate (litres/min) 40 If flowing give rate (litres/min) 40 If pumping discontinued, give reason.					

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0 to 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 **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

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) **BARTLEI 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**

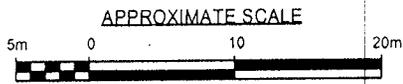
Was the well owner's information package delivered? Yes No Date Delivered

Ministry Use Only

Data Source Contractor's No. **6607**

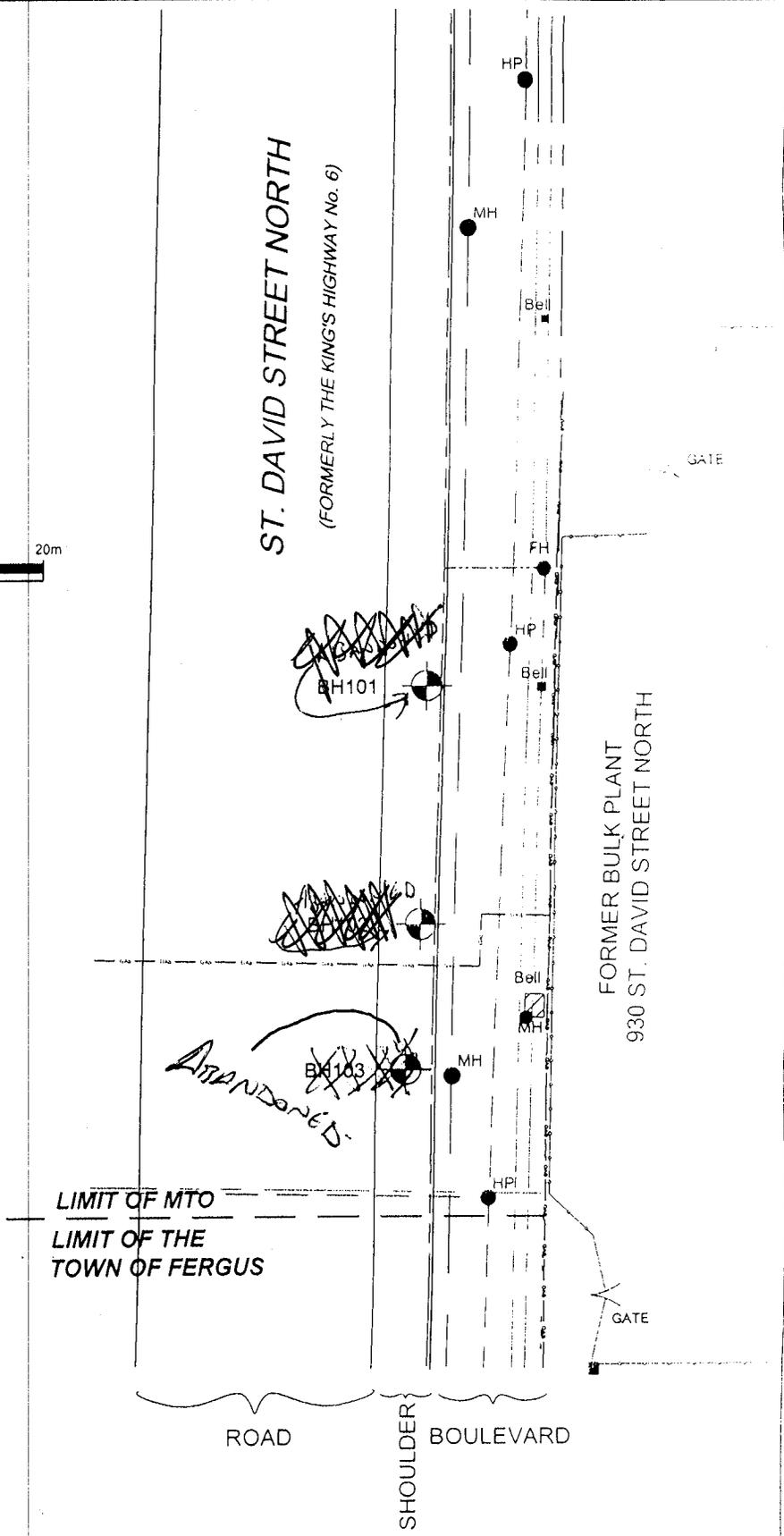
Date Received **MAY 05 2006** Date of Inspection

Remarks Well Record Number



LEGEND

- Property Boundary
- Fenceline
- Overhead Hydro Wires
- Natural Gas Line
- Watermain
- Sewer
- Cable Banks - Fiber Optic
- FH 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.: [REDACTED]
	Drawn by: KH	Approved by: PN	Figure No.: 3 Borehole Location Plan

6607

Z46628

MAY 05 2006

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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 TREX 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			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
Water Record			Casing				Pumping test method					
Water found at Metres / Kind of Water			Screen				Pump intake set at - (metres)					
Fresh Sulphur Gas Salty Minerals			No Casing or Screen				Pumping rate - (litres/min)					
After test of well yield, water was			Open hole				Duration of pumping hrs + min					
Clear and sediment free							Final water level end of pumping metres					
Other, specify							Recommended pump type					
Chlorinated Yes No							Recommended pump depth metres					
							Recommended pump rate (litres/min)					
							If flowing give rate - (litres/min)					
							If pumping discontinued, give reason.					

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 Technician/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:

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- 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 **83** Zone **17** Easting **548818** Northing **4840224** Unit Make/Model **MAGELEN** 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	To
BROWN	CLAY & GRAVEL			0	12ft
GRAY	CLAY			12ft	36ft
GRAY	CLAY & STONES			36ft	79ft
BROWN	LIMESTONE			79ft	101ft
GRAY	LIMESTONE			101ft	321ft
BROWN	LIMESTONE			321ft	332ft

Hole Diameter

Depth	Metres	Diameter
From	To	Centimetres
0	82ft	8.75
82ft	332ft	6in

Construction Record

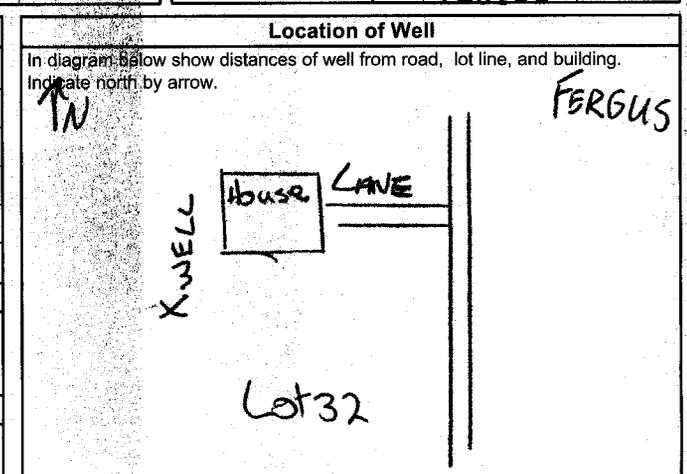
Inside diam centimetres	Material	Wall thickness centimetres	Depth	
			From	To
Casing				
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.188	0	82ft
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input checked="" type="checkbox"/> Open hole		82ft	332ft

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
pump-air				
Pump intake set at - (metres) 160ft	Static Level	84ft		
Pumping rate - (litres/min) 10gpm	1	87ft	1	92ft
Duration of pumping 2 hrs + 0 min	2	89ft	2	87ft
Final water level end of pumping 101ft	3	91ft	3	86ft
Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4	92ft	4	
Recommended pump depth 160ft	5	93ft	5	84ft
Recommended pump rate 10gpm	10	99ft	10	
If flowing give rate - (litres/min)	15	101ft	15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60	1+01ft	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	82ft	BENTONITE SLURRY



Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input checked="" type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

Water Use

<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	

Final Status of Well

<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information

Name of Well Contractor **KEITH LANG WELL DRILLING INC** Well Contractor's Licence No. **7154**
 Business Address (street name, number, city etc.) **251 ELDON ST GODERICH ONT**
 Name of Well Technician (last name, first name) **KEITH LANG** Well Technician's Licence No. **T446**
 Signature of Technician/Contractor *Keith Lang* Date Submitted _____

Audit No. **2 53157** Date Well Completed **2006 9 27**
 Was the well owner's information package delivered? Yes No

Ministry Use Only

Data Source _____ Contract No. **7154**
 Date Received **NOV 2 2 2006** Date of Inspection _____
 Remarks _____ Well Record Number _____

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

Address of Well Location	585 GARATRAYA ST W
Township	FERGUS TOWN
Lot	
Concession	
County/District/Municipality	WELLINGTON
City/Town/Village	FERGUS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 548644.00 Northing: 4839863.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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:

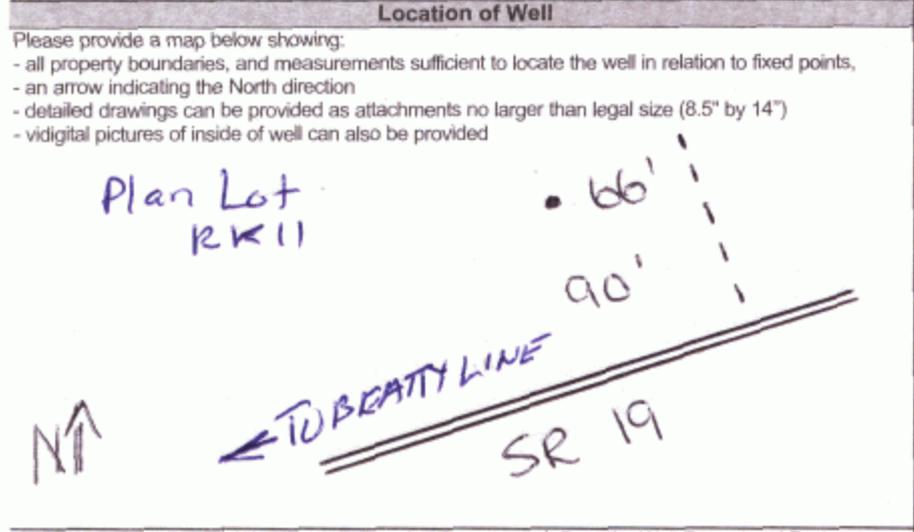
Pumping test method: **AIR/BAIL**
 Pump intake set at (Metres): **150'**
 Pumping rate (Litres/min): **10 GPM**
 Duration of pumping: **1 hrs + 45 min**
 Final water level end of pumping (Metres): **150**
 Recommended pump type: Shallow Deep
 Recommended pump depth: **150' Metres**
 Recommended pump rate (Litres/min): **10 GPM**
 If flowing give rate (Litres/min):

Method of Construction

<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 checked="" type="checkbox"/> Rotary (Air)	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion	<input type="checkbox"/> Boring	<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Status of Well

<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Observation and/or Monitoring Hole
<input type="checkbox"/> Replacement Well	<input type="checkbox"/> Abandoned, Insufficient Supply	<input type="checkbox"/> Alteration (Construction)
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, Poor Water Quality	<input type="checkbox"/> Other, specify
<input type="checkbox"/> Recharge Well	<input type="checkbox"/> Abandoned, other, specify	



Water Details

Water found at Depth: _____ Metres	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth: _____ Metres	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Water found at Depth: _____ Metres	Kind of Water: <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

<input type="checkbox"/> Galvanized	<input type="checkbox"/> Galvanized
<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> Steel
<input type="checkbox"/> Fibreglass	<input type="checkbox"/> Fibreglass
<input type="checkbox"/> Plastic	<input type="checkbox"/> Plastic
<input type="checkbox"/> Concrete	<input type="checkbox"/> Concrete

Screen Used

<input type="checkbox"/> Galvanized	<input type="checkbox"/> Galvanized
<input type="checkbox"/> Steel	<input type="checkbox"/> Steel
<input type="checkbox"/> Fibreglass	<input type="checkbox"/> Fibreglass
<input type="checkbox"/> Plastic	<input type="checkbox"/> Plastic
<input type="checkbox"/> Concrete	<input type="checkbox"/> Concrete

Casing and Well Details

Diameter of the Hole (Centimetres): **83/4**
 Depth of the Hole (Metres): **275**
 Wall Thickness (Metres): **.188**
 Inside Diameter of the Casing (Metres): **6'14"**
 Depth of the Casing (Metres): **84'**

No Casing and Screen Used

Open Hole

Disinfected? Yes No

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 _____
 County/District/Municipality _____ City/Town/Village **Fergus** Province **Ontario** Postal Code **N1M2W3**
 UTM Coordinates Zone Easting Northing GPS Unit Make Model Mode of Operation: Undifferentiated Averaged
NAD 83 17548979 4840337 Explorer 100 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	Sand	Gravel	Fill	0	1.1
Brown	Silt	Clay	dense	1.1	3.2
Brown	clay	Silt	Hard	3.2	4

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	4	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 Yes No

Static Water Level Test **N/A** Metres

Screen

Galvanized Steel Fibreglass Concrete Plastic

Outside Diameter (Centimetres) **6.4** Slot No. **25**

Water Details

Water found at Depth **1.7** 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) _____

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** Please indicate Number of Cluster Well Information Log Sheets Submitted _____
 Total Wells on this Property **3** _____

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 **Jubard** Date (yyyy/mm/dd) **2009/02/27**
 Master Well Owner's/Land Owner's consent to use Cluster Form _____ Date (yyyy/mm/dd) **09/02/07**

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
5.1	Plastic	.65	0	4

Annular Space/Abandonment Sealing Record

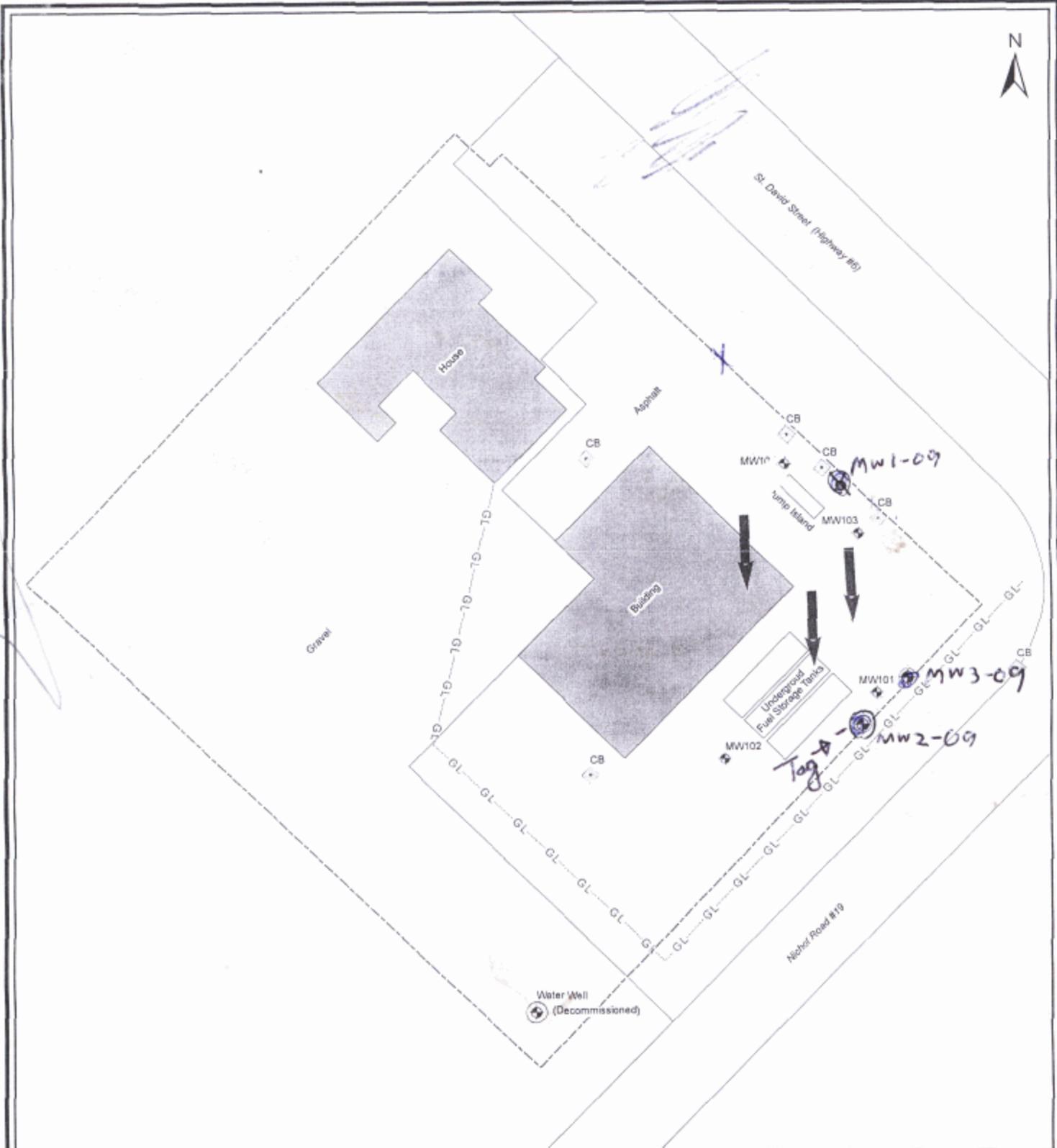
Depth Set at (Metres)	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
From	To	
0	3 Concrete	
.3	.8 Bentonite Chips	

Well Contractor and Well Technician Information

Business Name of Well Contractor **Geo-Environmental Drilling** Well Contractor's Licence No. **6607**
 Business Address (Street No./Name, number, RR) **340 Market Dr** Municipality **Wilton**
 Province **On.** Postal Code **L9T5A4** Business E-mail Address _____
 Bus. Telephone No. (inc. area code) **9058763388** Name of Well Technician (Last Name, First Name) **Ward Jeremy**
 Well Technician's Licence No. **3108** Signature of Technician **Jubard** Date Submitted (yyyy/mm/dd) **2009/02/27**

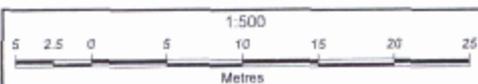
Ministry Use Only

Audit No. **M 04329** Well Contractor No. _____
 Date Received (yyyy/mm/dd) **APR 23 2009** Date of Inspection (yyyy/mm/dd) _____
 Remarks _____



Legend

- - - - - Site Property Boundary
- GL - - - - - Underground Gas Line
- ⊕ - Monitoring Well (Terrapex - 1999)
- ⊕ - Proposed Monitoring Well (FRANZ - Jan. 2009)
- ➔ - Inferred Ground Water Flow Direction



Title: PROPOSED MONITORING WELL LOCATIONS	
Project: SUPPLEMENTAL SUBSURFACE CONTAMINANT DELINEATION ASSESSMENT 935 St. DAVID St. NORTH, FERGUS, ON	
Client: BLINKHORN MOTORS LTD.	
 FRANZ ENVIRONMENTAL INC. • CONSULTING • ENGINEERING • TECHNOLOGIES •	Date: Jan. 2009
	Updated: Jan. 27, 2009
FIGURE 1	

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]
 County/District/Municipality: [blank] City/Town/Village: Fergus Province: Ontario Postal Code: [blank]

UTM Coordinates: NAD 83 Zone: 17 Easting: 548362 Northing: 4839497 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 Yes No

Static Water Level Test Yes No Metres: [blank]

Screen

Galvanized Steel Fibreglass Concrete Plastic
 Outside Diameter (Centimetres): 6.4 Slot No.: 10

Water Details

Water found at Depth: [blank] 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): 2004/06/05

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 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1
 Total Wells on this Property: 3

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

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: [blank]
 Bus. Telephone No. (inc. area code) of Well Technician (Last Name, First Name): 905 876 3388 Sales, Dave
 Well Technician's Licence No.: 1306 Signature of Technician: [Signature] Date Submitted (yyyy/mm/dd): 2004/06/05

Audit No.: M 051.61 Well Contractor No.: [blank]
 Date Received (yyyy/mm/dd): JUL 09 2009 Date of Inspection (yyyy/mm/dd): [blank]
 Remarks: [blank]

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 (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 multiple rows for Water found at Depth (Metres) and Kind of Water (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 concerning the cluster to the Director upon request, Signature of Technician/Contractor, and Master Well Owner's/Land Owner's consent to use Cluster Form.

Well Contractor and Well Technician Information section with fields for Business Name (GEO-ENVIRONMENTAL DRILLING INC), Business Address (340 MARKET DR), Province (ONT), Postal Code (L9T5A4), Business E-mail Address (geo-environmentaldrilling.com), Bus. Telephone No. (9058763388), Name of Well Technician (Gunn, Dana), Well Technician's Licence No. (2062), and Date Submitted (2007/05/09).

Ministry Use Only section with fields for Audit No. (M 05151), Date Received (OCT 01 2009), Well Contractor No., and Date of Inspection.



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

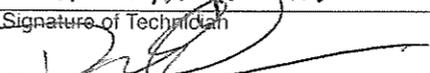
Signature of Technician/Contractor:  Date (yyyy/mm/dd): 2009/05/05

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

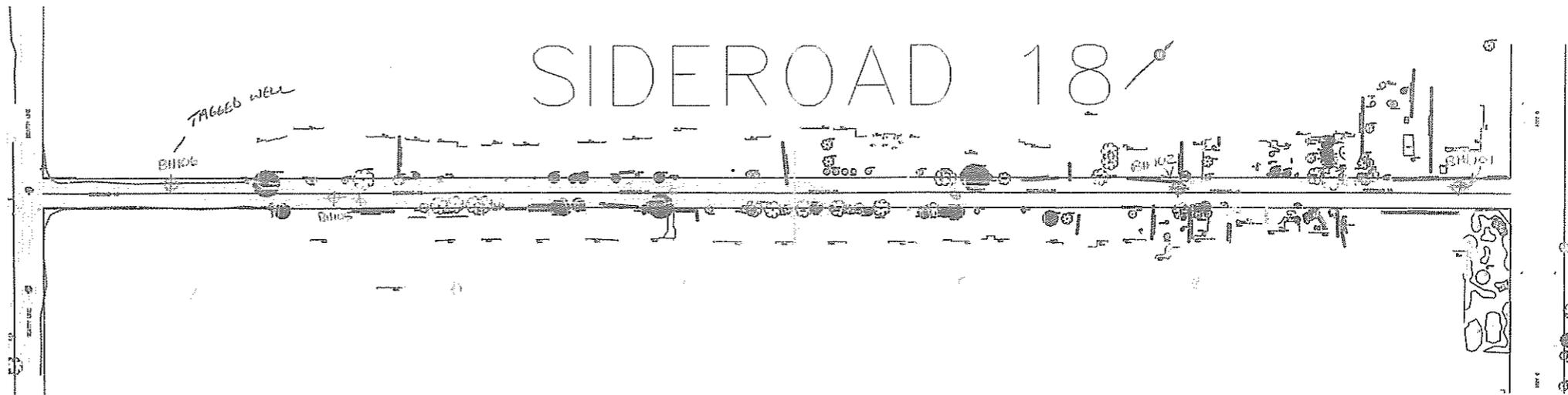
Name of Well Technician (First Name, Last Name): Dave Gunn Well Technician's Licence No.: 2062 Date Submitted (yyyy/mm/dd): 2009/05/28 Signature of Technician: 

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

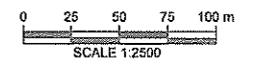


SIDEROAD 18

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.

Construction Details table with 4 columns: Inside Diameter (Centimetres), Material, Wall Thickness, Depth (Metres) From/To. Row: 5.1, PLASTIC, 0.65, 0 4.57

Screen section with checkboxes for Galvanized, Steel, Fibreglass, Concrete, Plastic. Includes Outside Diameter (Centimetres) 6.4 and Slot No. 10

Water Details section with multiple rows for Water found at Depth (Metres) and Kind of Water (Gas, Fresh, Salty, Sulphur, Minerals)

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, 0.02 m³

Disinfected Yes/No, Date Master Well Completed (yyyy/mm/dd) 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"). Sketches are not allowed. Check box to confirm detailed map is provided as per Section 11.1 (3)

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 (Last Name, First Name) England Matthew, Well Technician's Licence No. 310519, Signature of Technician, Date Submitted (yyyy/mm/dd) 2010/01/20

Ministry Use Only section: Audit No. M 04689, Well Contractor No., Date Received (yyyy/mm/dd) 2010, Date of Inspection (yyyy/mm/dd), Remarks MAR 01 2010



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, [] Averaged, [] Differentiated, specify

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From/To. Includes handwritten 'ABANDON' across the table.

Hole Details table with columns: Depth (Metres) From/To, Diameter (Centimetres). Value: 0 to 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 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 Signature of Technician/Contractor and Date.

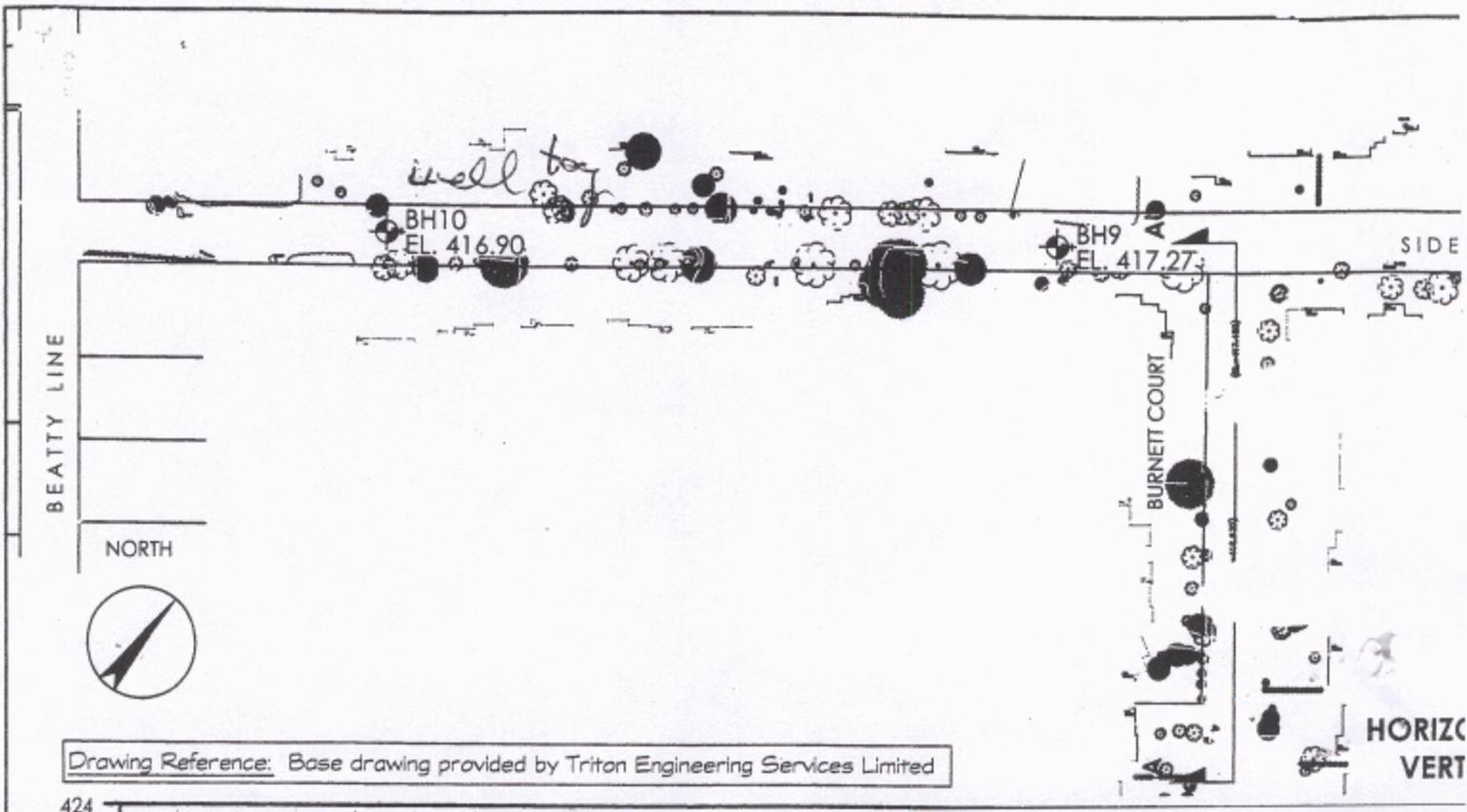
Well Contractor and Well Technician Information section with Business Name (Geo-Environmental), Licence No. (6607), and Technician Name (GARRIE VAY).

Master Well Owner's/Land Owner's consent to use Cluster Form section with Signature and Date.

Ministry Use Only section with Audit No. (M 06588), Date of Inspection (MAY 19 2010), and Remarks.

MAY 19 2010

2-6607
M06058
C07817

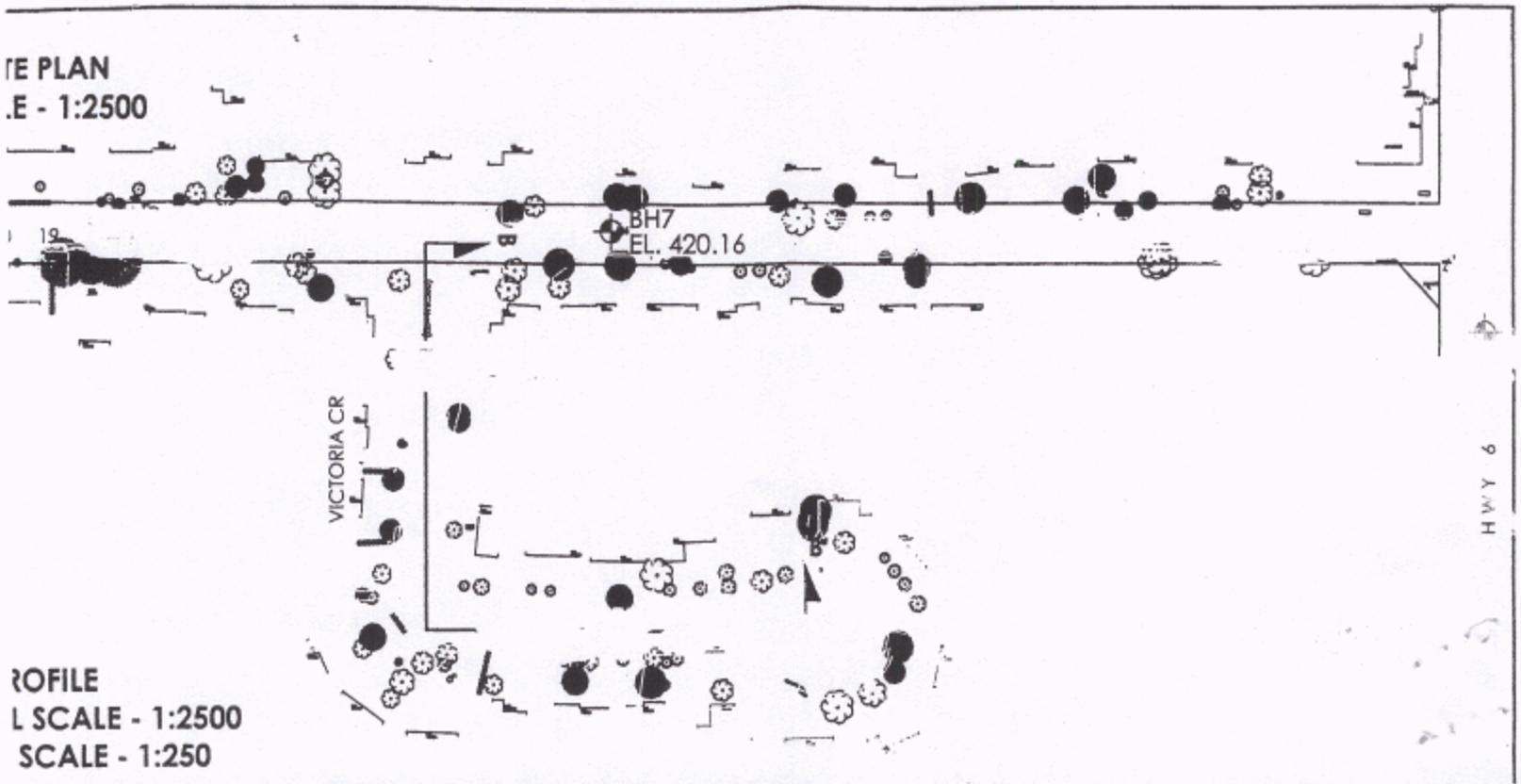


Drawing Reference: Base drawing provided by Triton Engineering Services Limited

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: BERGUS
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: BERGUS
Province: Ontario
Postal Code: [blank]
UTM Coordinates: NAD 83, Zone 17, Easting 548897, Northing 484023
GPS Unit Make: Garmin
Model: ETREX
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

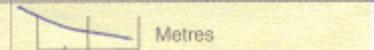
Status of Well

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, Kind of Water: Gas, Fresh, Salty, Sulphur, Minerals
 Water found at Depth: [blank] Metres, Kind of Water: Gas, Fresh, Salty, Sulphur, Minerals
 Water found at Depth: [blank] Metres, Kind of Water: 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

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	0.5	cover & concrete	
0.5	2.9	Bentonite	
2.9	3.7	SAND.	

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	548472	4839787	5.5	21	Boring	PLASTIC	4.0	5.5	4.0	Bentonite	2.3		2010/04/27

Well Contractor and Well Technician Information

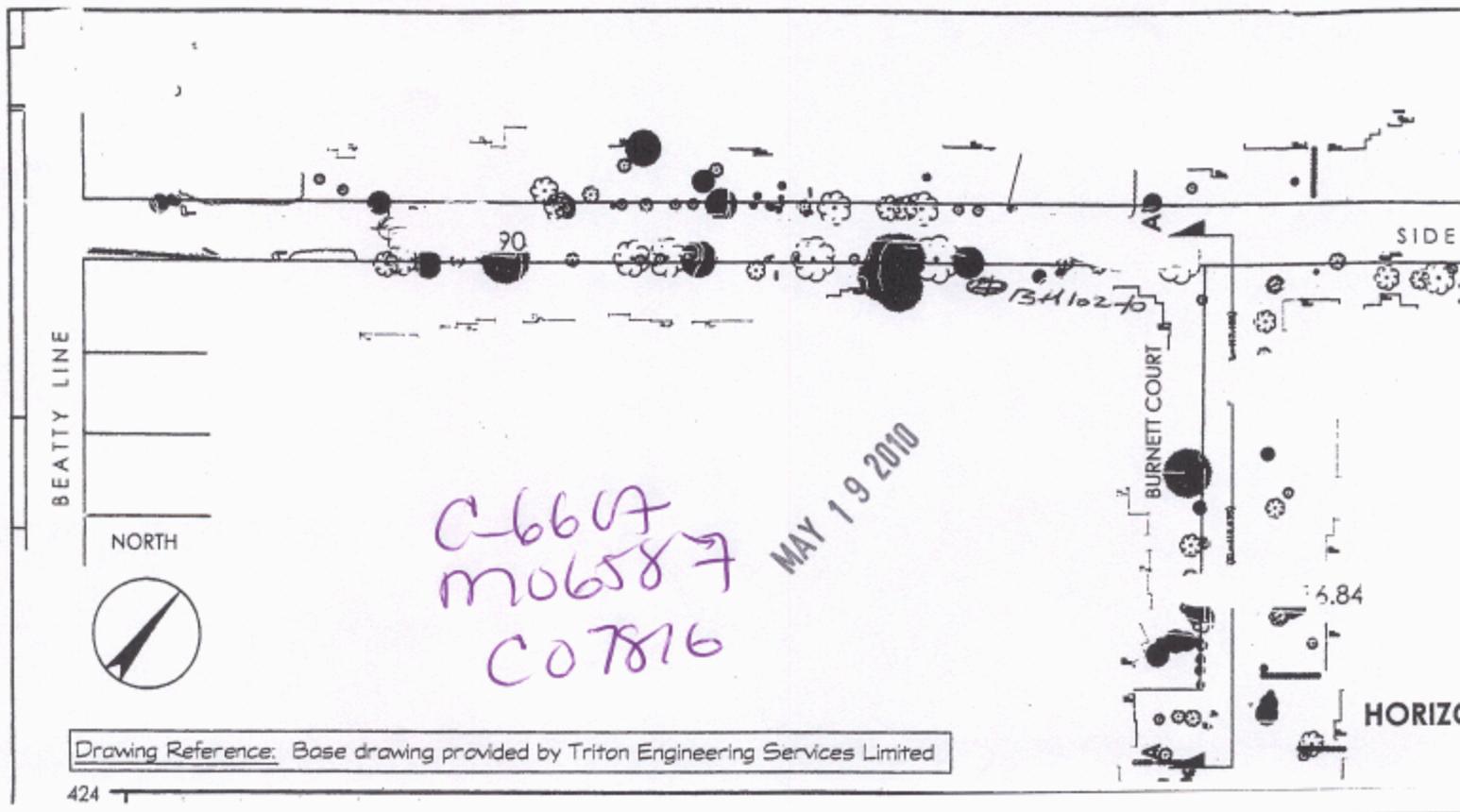
Business Name of Well Contractor GEO-ENVIRONMENTAL DRILLING	Business Address (Street Number/Name, RR) 340 MARKET AVE W. W. W. W.	Municipality HOLTON	Province ON
Postal Code L9T5A4	Business Telephone No. (inc. area code) 9058763300	Well Contractor's Licence No. 6607	Business E-mail Address
Name of Well 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
---	--

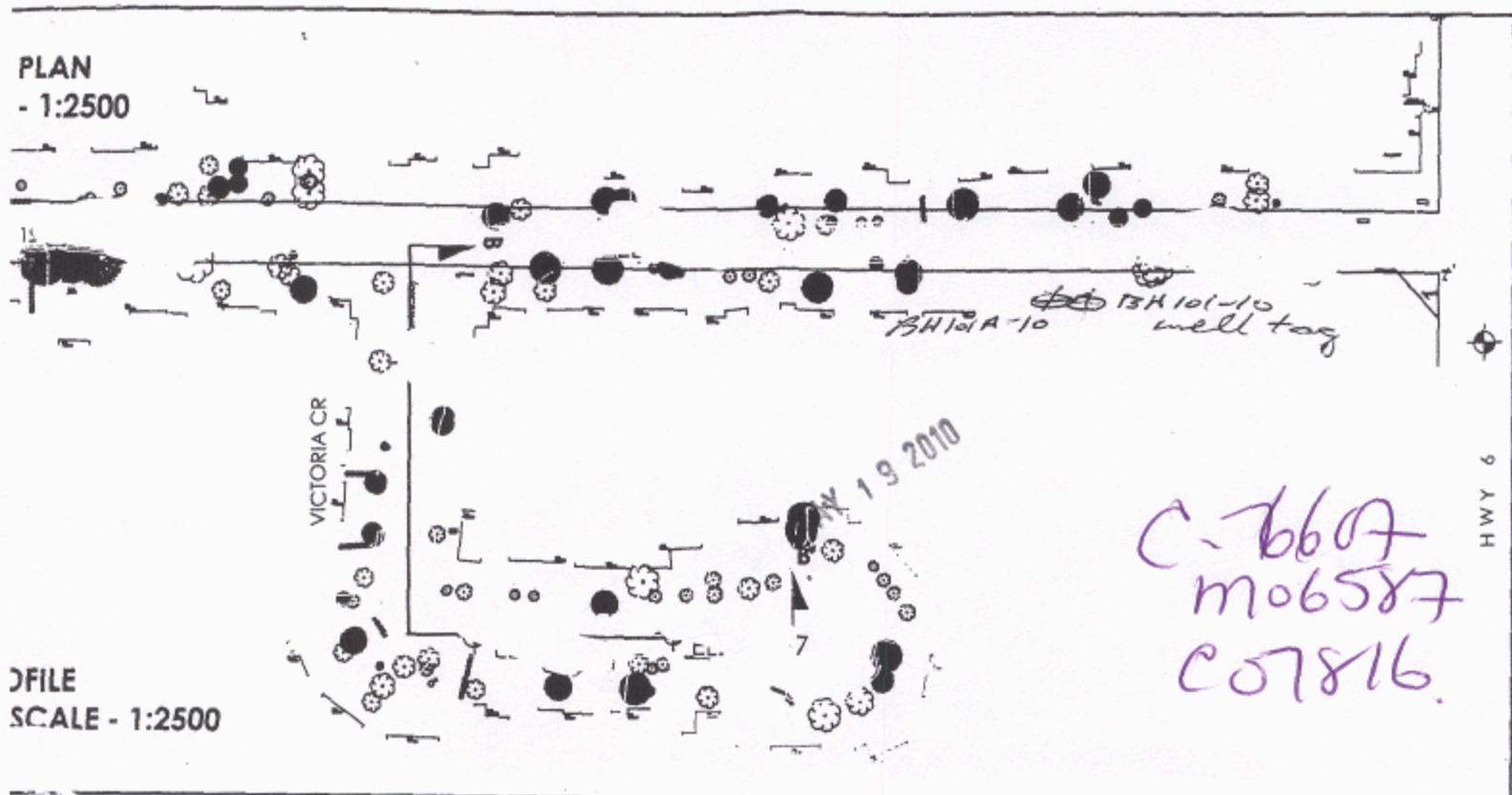
Ministry Use Only

Date Received (yyyy/mm/dd) MAY 19 2010	Date Inspected (yyyy/mm/dd)
Audit No. C07816	Remarks M06587

11/10/10 F



PLAN
- 1:2500



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SCALE - 1:2500

C-7667
m06587
c07816

HWY 6

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 MUNICIPAL <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
	ABANDON 30" x 11 1/2' DUG WELL			
			NATIVE	0 3'
			BENTONITE	3' 4'
			GRAVEL	4' 10 1/2'
			BENTONITE	10 1/2' 11 1/2'

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
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 MUNICIPAL <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 <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: Y Y Y M M D D 20101130	Ministry Use Only Audit No. z125267 FEB 04 2011 Received
Date Work Completed: 20101130		

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 ³ /ft ³)
0 to 40'	BENTONITE SLURRY	9

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) **150**

Pumping rate (l/min / GPM) **10**

Duration of pumping **1** hrs + **0** min

Final water level end of pumping (m/ft) **86' 1"**

If flowing give rate (l/min / GPM) _____

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level	67'		86' 1"	
1	73' 5"	1	79' 4"	
2	76' 2"	2	77' 2"	
3	77' 10"	3	75' 9"	
4	79' 2"	4	75' 1"	
5	79' 9"	5	74' 5"	
10	82' 1"	10	72' 4"	
15	83' 6"	15	71' 1"	
20	84' 4"	20	70' 5"	
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'	

Recommended pump depth (m/ft) **150'**

Recommended pump rate (l/min / GPM) **7**

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 (m/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (m/in)	Depth (m/ft)	
			From	To
6 1/4	STEEL	.188	+1 1/2'	78 1/2'
6 1/8	OPEN HOLE		78 1/2'	156'

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

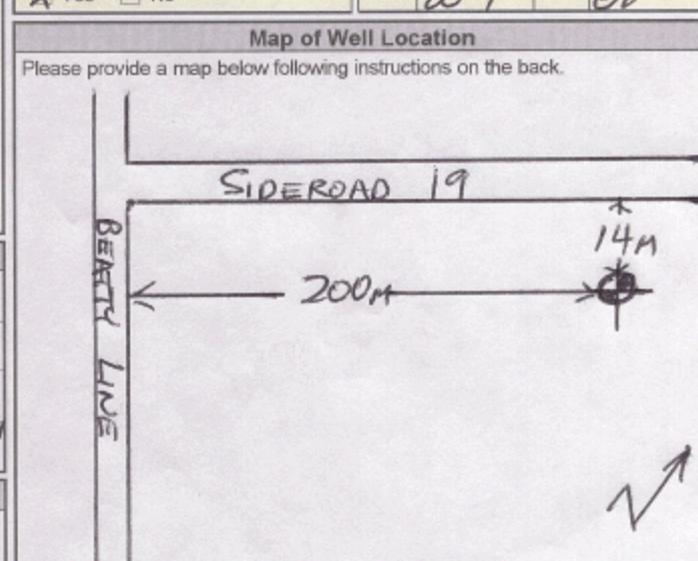
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
156' (m/ft)	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From To Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 20' 10"
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	20' 78 1/2' 9"
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	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 **FLORA**
 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	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes	20101216	Audit No. z125324
<input type="checkbox"/> No	20101209	Received FEB 04 2011

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
 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	Gravel	Wierf	0	7'
Grey	SAND	Silt		7'	18'

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 1'	Concrete / Flashment	
1' - 7'	Benseal	
7' - 18'	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: 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 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	
2"	PVC	.25"	0	8'	<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	
2.25"	PVC	10	8'	18'	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To Diameter (cm/in) 0 18' 4.25"
	<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

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 Zone Easting Northing Municipal Plan and Sublot Number Other WKQ-003941
 NAD 83 17549211 4840084 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>Mud/Wat</u>	<u>5'</u>	<u>14'</u>

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
<u>0 4'</u>	<u>Benseal</u>	
<u>4' 14'</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

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	
<u>2"</u>	<u>PVC</u>	<u>0.25"</u>	<u>0</u>	<u>4'</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>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:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To Diameter (cm/in) <u>0 14' 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

Map of Well Location

Please provide a map below following instructions on the back.

See Map MW2

Comments: General contractor: EXP Services Incorporated

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 [Signature] Date Submitted 2011 07 08

Ministry Use Only

Audit No. z134917

Date Package Delivered 2011 06 24

Date Work Completed 2011 06 24

Received

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>	
If flowing give rate (l/min / GPM)	<u>10</u>		<u>10</u>	
	<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

Comments: _____

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>2011 06 24</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 ³ /ft ³)
0 3'	Benseal	
3' 14'	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		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 checked="" type="checkbox"/> Direct Push	<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 checked="" 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	
2"	PVC	25"	0	4'	

Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify
			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)
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 14'	4.25"
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. 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	

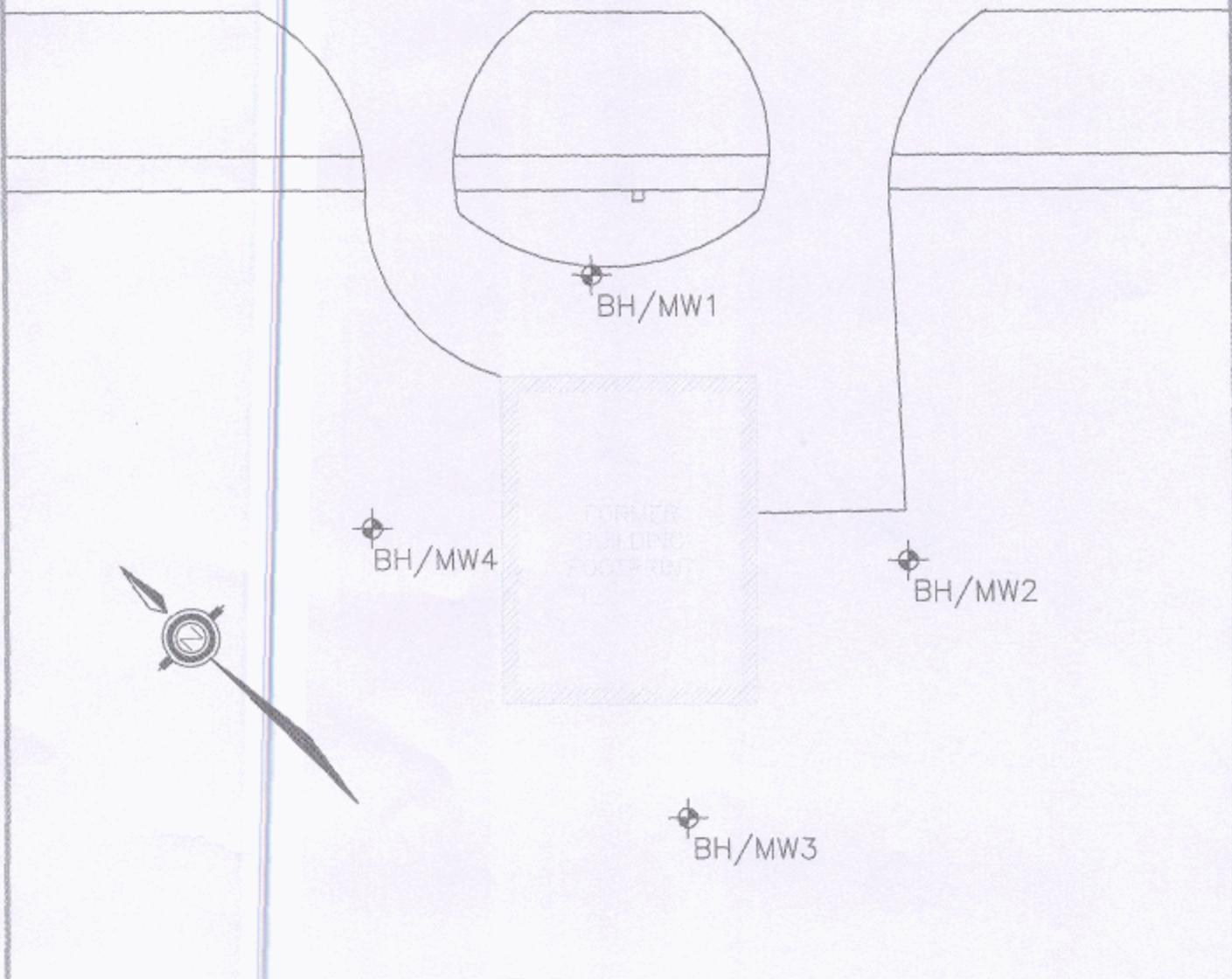
Bus. Telephone No. (inc. area code) 905-764-9304	Name of Well Technician (Last Name, First Name) Murray Stacy
Well Technician's Licence No. 3 6 1 8	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted 21 07 08

Map of Well Location	
Please provide a map below following instructions on the back.	
<p>See Map MW 4</p>	
Comments:	General contractor: EXP Services Incorporated

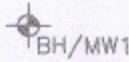
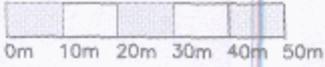
Ministry Use Only	
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 20 1 1 0 6 2 4
Audit No. z 134918	Date Work Completed 20 1 1 0 6 2 4
Received	AUG 05 2011

8690

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	LIMITED PHASE II - ESA SMARTCENTRES SITE, ST. DAVID STREET NORTH, FERGUS, ONTARIO	Project no. KCH-00200564-D0
Date JUNE 2011		FIG. 2
Drawn by LAS		
TITLE: BOREHOLE/MONITORING WELL LOCATION PLAN		

0-7241
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): **905 760 6200**

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: **17549208 4940114** 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/Clay		Dense	13'	25'

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 1'	Concrete/Flushwood	
1' - 19'	Resin	
19' - 25'	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	Static Level			
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	
	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	
2"	PVC	25"	0	20'	<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	
2.25"	PVC	10	20'	25'	

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: 0 To: 25'	5.75"

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Stratus Soil Sampling Inc** Well Contractor's Licence No.: **72411**
 Business Address (Street Number/Name): **142-2 West Beaver Creek Rd Richmond Hill** Municipality:
 Province: **Ont** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@stratusoil.com**

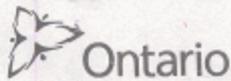
Bus. Telephone No. (inc. area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **Mark N...**
 Well Technician's Licence No.: **3448** Signature of Technician and/or Contractor: **Mark N...** Date Submitted: **2011 07 20**

Map of Well Location

Please provide a map below following instructions on the back.

See MAP MW 5

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 2011 07 28	Ministry Use Only Audit No. z 129631 AUG 05 2011
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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 data 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. Includes handwritten entry for 2" PVC casing.

Construction Record - Screen

Table with 4 columns: Outside Diameter, Material, Slot No., Depth. Includes handwritten entry for 2.25" PVC screen.

Water Details

Hole Diameter

Table with 3 columns: Water found at Depth, Kind of Water, Hole Diameter. Includes handwritten data for water depth and 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: Name: Mike, License No.: 3448, Date Submitted: 2011 07 22.

Map of Well Location

Please provide a map below following instructions on the back. See Map MW 6.

Well owner's information package delivered: Yes. Date Package Delivered: YYY Y MM DD. Date Work Completed: 2011 07 08. Ministry Use Only: Audit No. z129630, Received 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: **VANHOAN** 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: **FERRIS** Province: **Ontario** Postal Code: _____

 UTM Coordinates: Zone: **17S** Easting: **49226** Northing: **4840094** 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		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 ³ /ft ³)
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
	5		5	
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	
	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 Dredged | | | | |

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)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)		Diameter (cm/in)
		From	To	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	17.5'	5.75"
	<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: **Shata Soil Sampling Inc** Well Contractor's Licence No.: **72411**
 Business Address (Street Number/Name): **#2-147 West Beaver Creek Rd.** Municipality: **Richmond Hill**
 Province: **ON** Postal Code: **L4B 1K6** Business E-mail Address: **bwrecords@shatasoil.com**

 Bus. Telephone No. (inc. area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **MIND MIKE**
 Well Technician's Licence No.: **3448** Signature of Technician and/or Contractor: **[Signature]** Date Submitted: **2011 07 22**

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 2011 07 08	Ministry Use Only Audit No. z 129629 Received AUG 05 2011
	Date Work Completed 2011 07 08	

See MAP
MW7



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 Appewood Lakes Suite 100 Municipality: Vaughan Province: ON Postal Code: L4K 5Y3 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:

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)

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To. Rows include Sand, Silt/Clay, Full Gravel, Wet Dense.

Annular Space table with 4 columns: Depth Set at (m/ft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³), General Description.

Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, etc.

Construction Record - Casing table with 5 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 5 columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From To, Status of Well.

Water Details and Hole Diameter section with checkboxes for Fresh/Untested and depth/diameter measurements.

Well Contractor and Well Technician Information: Business Name of Well Contractor: State Soil Sampling Inc. Well Contractor's Licence No.: 72411

Business Address (Street Number/Name): #2-147 West Beaver Creek Rd, Richmond Hill. Name of Well Technician (Last Name, First Name): Mike.

Results of Well Yield Testing table with columns for Draw Down (Time, Water Level) and Recovery (Time, Water Level).

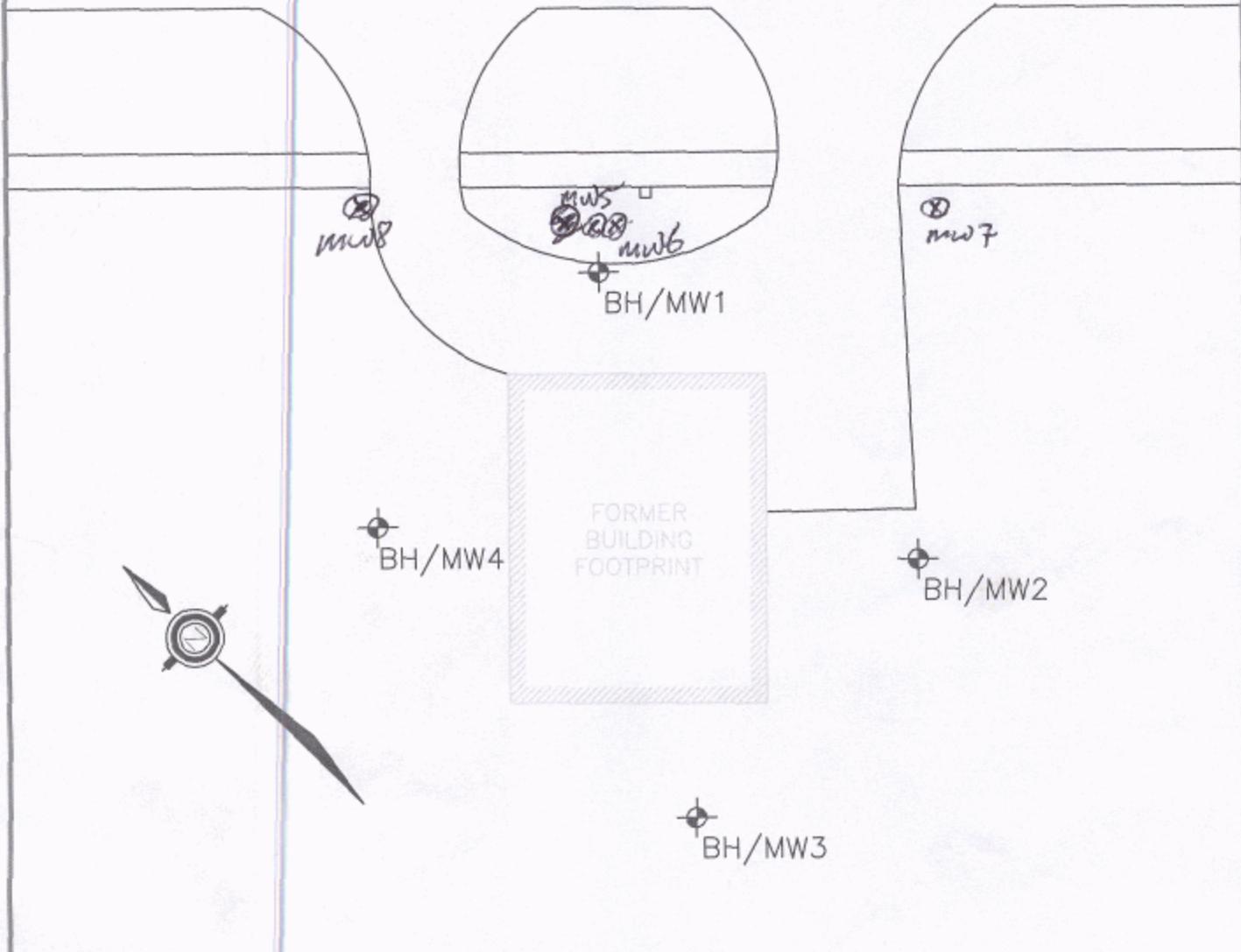
Map of Well Location: Please provide a map below following instructions on the back.

See Map MW8

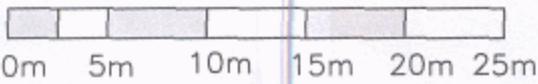
Comments, Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only Audit No. z129628, Received AUG 05 2011.

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 ³ /ft ³)
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'

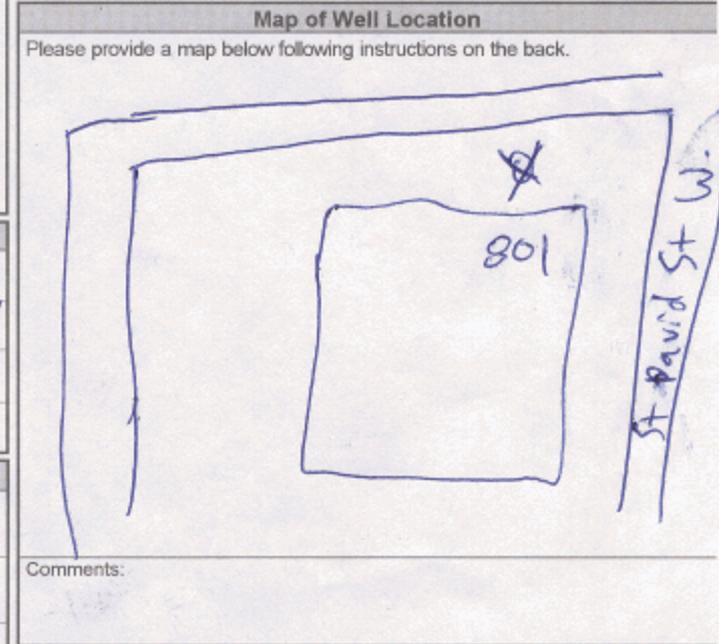
Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
		0	4.5"

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	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		



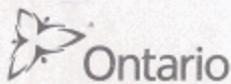
Well owner's information package delivered: Yes No

Date Package Delivered: Y Y | Y Y | M M | D D
 Date Work Completed: 2011 09 12

Ministry Use Only

Audit No.: z131003

NOV 01 2011



Measurements recorded in: Metric Imperial

9031 Page 2 of 10

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 17 5 49 21 6 48 3 9 9 8 4

Overburden and Bedrock Materials/Abandonment Sealing Record

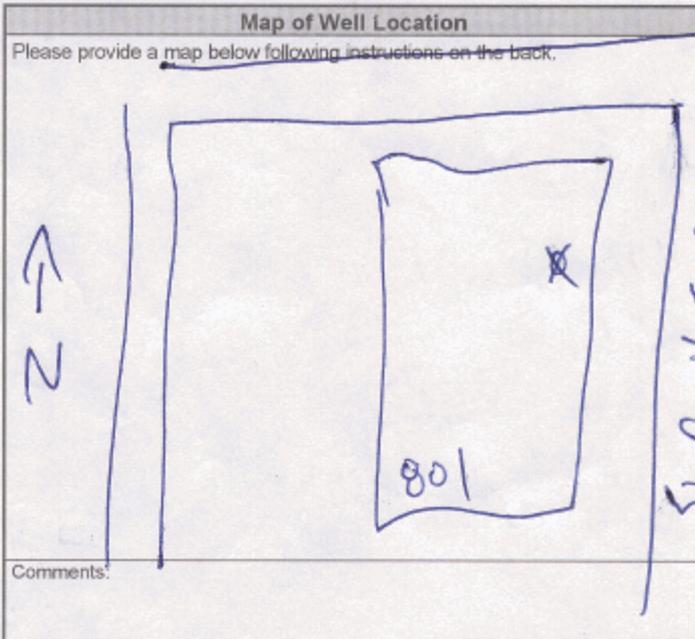
Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft). Handwritten entries include Brown/grey, Sand/silt, gravel/till, Loose/Dense, and depths from 0 to 15 feet.

Annular Space table with columns: Depth Set at (m/ft), Type of Sealant Used, Volume Placed. Handwritten entries for Concrete, Benseal, and SAND.

Results of Well Yield Testing table with columns: Draw Down, Recovery. Includes data for pumping rate, duration, and water level recovery.

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 columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth. Handwritten entries for PVC casing.



Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth. Handwritten entries for PVC screen.

Water Details and Hole Diameter section with checkboxes for Fresh/Untested water and depth/diameter measurements.

Well Contractor and Well Technician Information section with fields for Business Name (Strata Soil Sampling Inc), Address (147 West Beaver Creek), and Technician Name (Mike).

Bottom section with Well owner's information, Date Package Delivered, Date Work Completed, and Ministry Use Only (Audit No. z131004, NOV 01 2011).

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: L4K5X3 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 9839984 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>sub 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 ³ /ft ³)
<u>0</u> to <u>1'</u>	<u>Concrete</u>	
<u>1'</u> to <u>9'</u>	<u>Benseal</u>	
<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

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>1.75"</u>	<u>PVC</u>	<u>0.25"</u>	<u>0</u>	<u>10'</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>2"</u>	<u>PVC</u>	<u>10</u>	<u>10'</u>	<u>15'</u>

Water Details

Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Hole Diameter

Depth (m/ft)	Diameter (cm/in)
<u>0</u> to <u>15'</u>	<u>4.5"</u>

Well Contractor and Well Technician Information

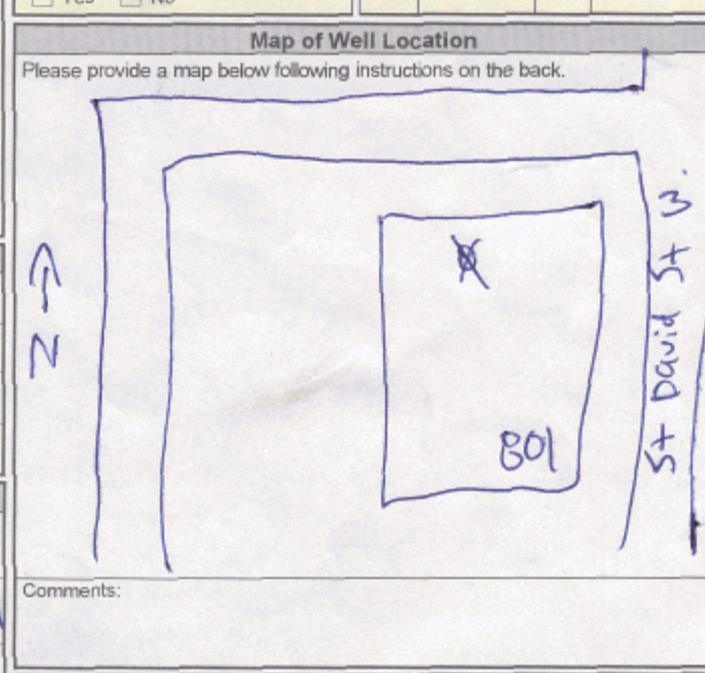
Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 147 West Beaver Creek Municipality: Richmond Hill

Province: Ontario Postal Code: L4B1C6 Business E-mail Address: wrc@stratasoil.com

Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Maat, Mike

Well Technician's Licence No.: 3448 Signature of Technician and/or Contractor: _____ Date Submitted: 2011 10 25



Ministry Use Only

Audit No.: z131006

Received: NOV 01 2011

Well owner's information package delivered: Yes No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 20 11 09 12

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 ³ /ft ³)
0 - 1'	Concrete	
1' - 9'	Benseal	
9' - 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

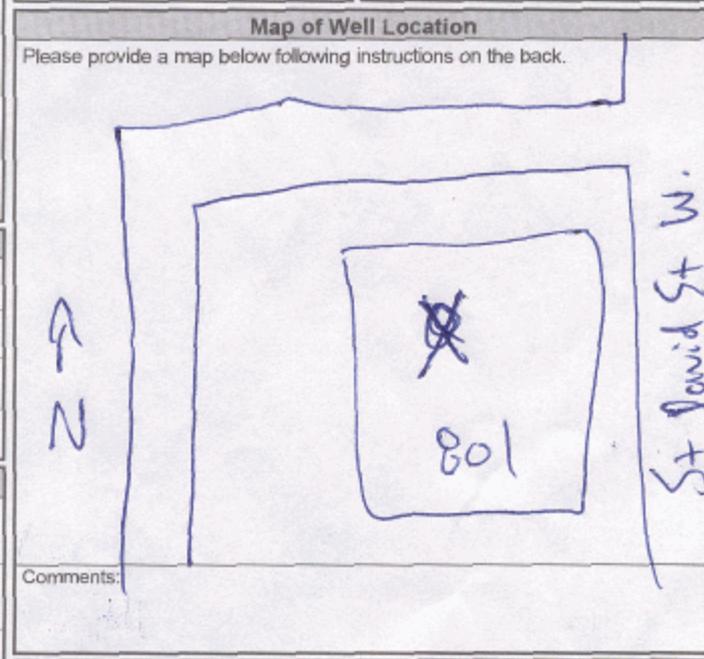
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC	10	10'	15'

Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
	<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	0 15' 4.5"
	<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: 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@sstratasoil.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'	Ben Seal	
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	
Pump intake set at (m/ft)	3		3	
Pumping rate (l/min / GPM)	4		4	
Duration of pumping hrs + min	5		5	
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	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
		0 - 15'	4.5"

Well Contractor and Well Technician Information

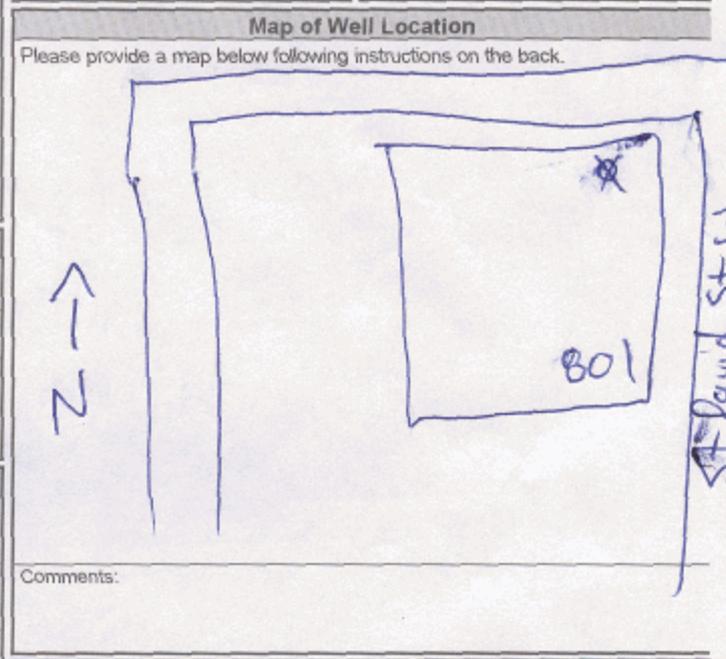
Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 72411

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



Well owner's information package delivered: Yes No

Date Package Delivered: 2011 09 12

Date Work Completed: 2011 09 12

Ministry Use Only

Audit No.: 2131005

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 5499216 9839984 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 ³ /ft ³)
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 checked="" type="checkbox"/> Air percussion	<u>Direct Push</u>	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other, specify _____
<input checked="" type="checkbox"/> Other, specify _____		<input type="checkbox"/> Not used	<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

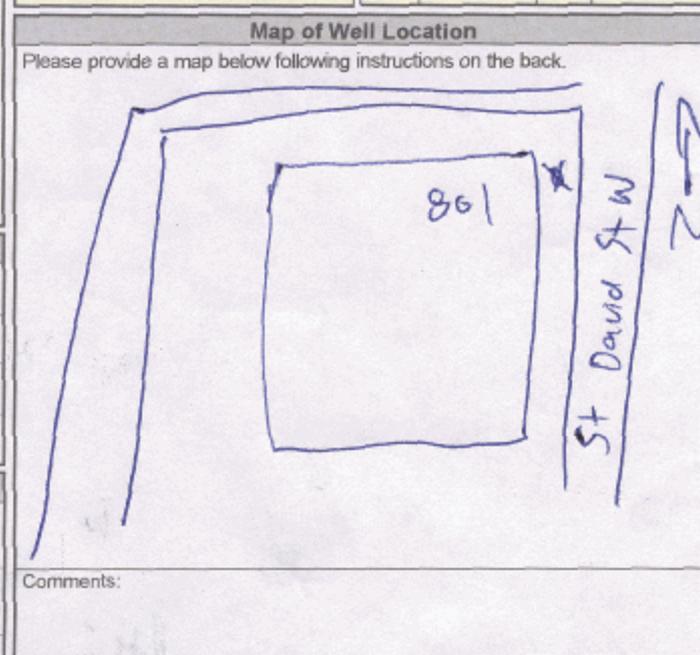
Business Name of Well Contractor: Strata Soil Sampling Inc Well Contractor's Licence No.: 7241

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: Maier, Mike Date Submitted: 20111025



Well owner's information package delivered: Yes No

Date Package Delivered: 20110912

Date Work Completed: 20110912

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 Direct Bsh	<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**

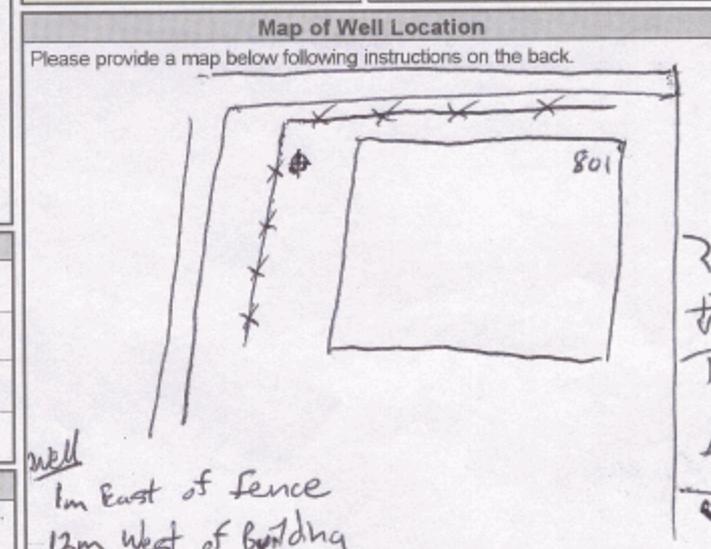
Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**

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		



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 Date Work Completed: 2011 09 13	Ministry Use Only Audit No.: 2129637 NOV 01 2011 Received
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Measurements recorded in: Metric Imperial

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A113532

9034

Page 8 of 10

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: **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: Zone: _____ Easting: **17549210** Northing: **4839958** 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 ³ /ft ³)
0 - 0.31	Concrete	1.0026
0.31 - 1.2	Bentonite	0.0042
1.2 - 4.5	Silica Sand	1.0154

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 _____

Other, specify **Direct RSL**

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	1.45	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: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 - 4.5	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.: **722411**

Business Address (Street Number/Name): **1472 West Beaver Creek Rd** Municipality: **Richmond Hill**

Province: **On** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@strataso1.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **Erin London**

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.

Comments:

Ministry Use Only

Well owner's information package delivered: Yes No

Date Package Delivered: **Y Y Y Y M M D D**
2011 09 13

Date Work Completed: **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 5491774840163 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
<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</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 2.2</u>	<u>Bentonite</u>	<u>.0084</u>
<u>2.2 4</u>	<u>Silica Sand</u>	<u>.0084</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>2.5</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)		Status of Well
			From	To	
<u>6.10</u>	<u>PVC</u>	<u>10</u>	<u>2.5</u>	<u>4</u>	<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 _____	<u>0</u>	<u>4</u>	<u>10.9</u>
	<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
 County/District/Municipality: Fergus
 Township: _____ Lot: _____ Concession: _____
 City/Town/Village: Fergus Province: Ontario Postal Code: _____
 UTM Coordinates: Zone: 17 Easting: 5491 Northing: 784840141
 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	4.5

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.31	Concrete	.0026
0.31 - 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: 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 Street Rush 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 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

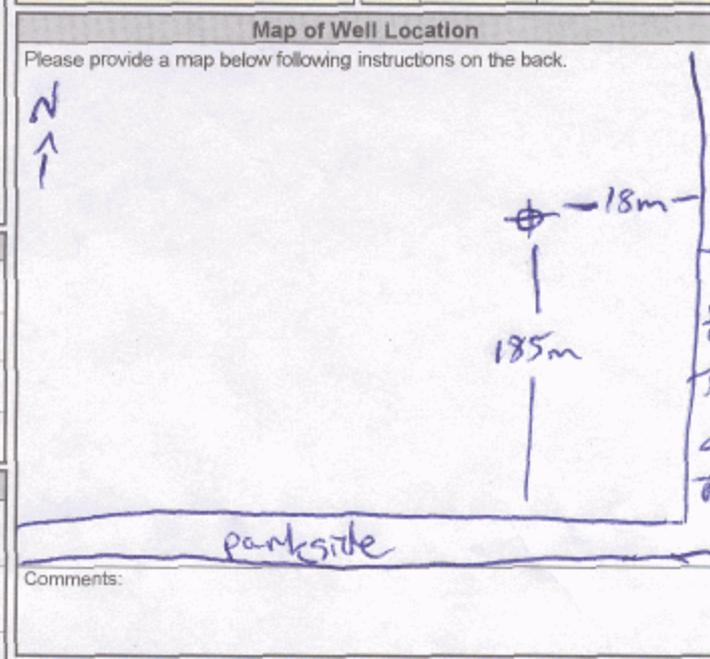
Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Water found at Depth (m/ft) Gas Other, specify _____ Kind of Water: Fresh Untested

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Inc
 Business Address (Street Number/Name): 147-2 West Beaver Creek rd.
 Province: On Postal Code: L4B 1C6 Business E-mail Address: wrecords@stratasoil.com
 Well Contractor's Licence No.: 712411 Municipality: Richmond Hill
 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



Ministry Use Only

Audit No. z129741
 Date Package Delivered: YYY Y M M D D
 Date Work Completed: 2011 09 27
 Well owner's information package delivered: Yes No
 Record Date: 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 83 Easting 175491434840165 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
<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 (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:	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>	
	<u>50</u>		<u>50</u>	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	<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 _____
 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

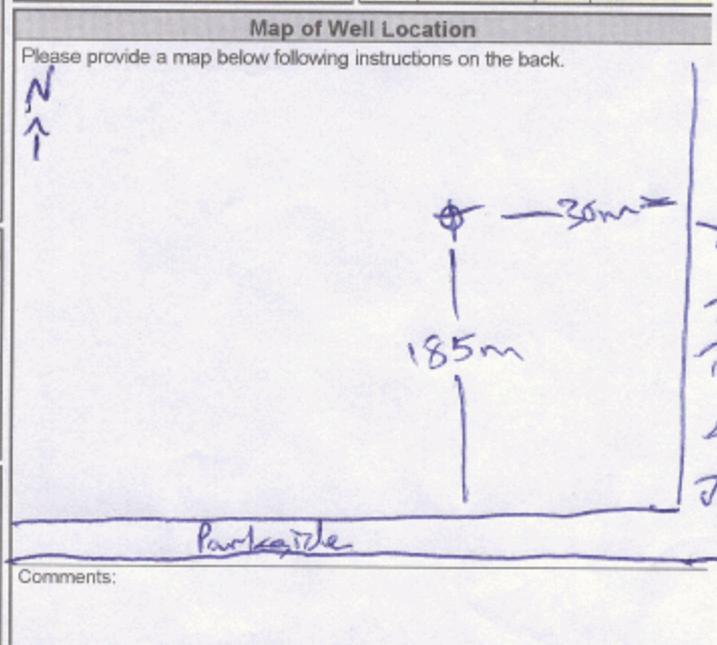
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
<u>6.10</u>	<u>PVC</u>	<u>10</u>	<u>1.5</u>	<u>4.5</u>

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>0</u>	<u>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: 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 Langdon
 Well Technician's Licence No.: 3617 Signature of Technician and/or Contractor: _____ Date Submitted: 2011/09/16



Ministry Use Only

Audit No.: **z 129736**
 Received: **NOV 15 2011**

Well owner's information package delivered: Yes No
 Date Package Delivered: 2011/08/27
 Date Work Completed: _____

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
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 (m ³ /ft ³)
0 - 0.31	Concrete	.0026
0.31 - 1.2	Bentonite	.0042
1.2 - 4.5	Silticee 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	
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	
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

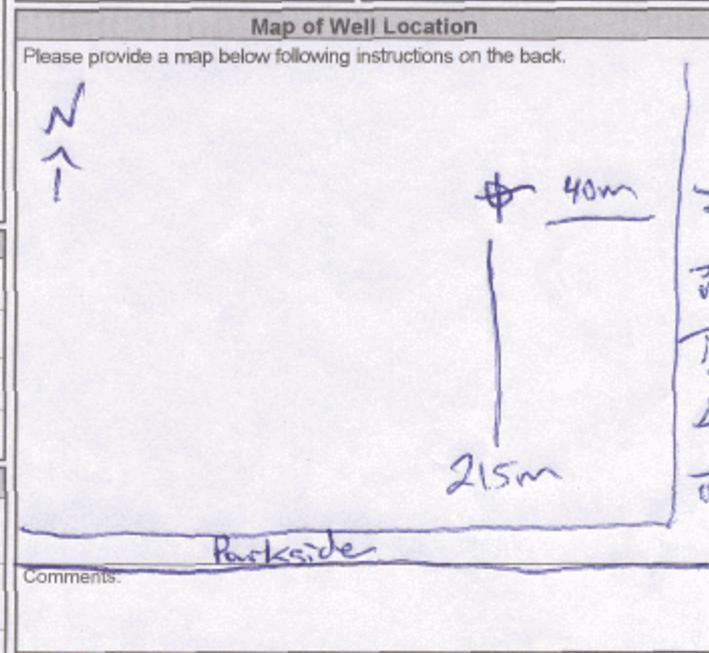
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
	<input type="checkbox"/> Gas <input type="checkbox"/>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

Hole Diameter

Depth (m/ft)	Diameter (cm/in)
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.: 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: wheardse@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: 20/10/10



Well owner's information package delivered

Yes No

Date Package Delivered: Y|Y|Y|Y|M|M|D|D
 Date Work Completed: 20/10/10

Ministry Use Only

Audit No. z129737
 Received NOV 15 2011



Measurements recorded in: Metric Imperial

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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:	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>	
	<u>15</u>		<u>15</u>	
If flowing give rate (l/min / GPM)	<u>20</u>		<u>20</u>	
	<u>25</u>		<u>25</u>	
Recommended pump depth (m/ft)	<u>30</u>		<u>30</u>	
	<u>40</u>		<u>40</u>	
Recommended pump rate (l/min / GPM)	<u>50</u>		<u>50</u>	
	<u>60</u>		<u>60</u>	
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 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"/>

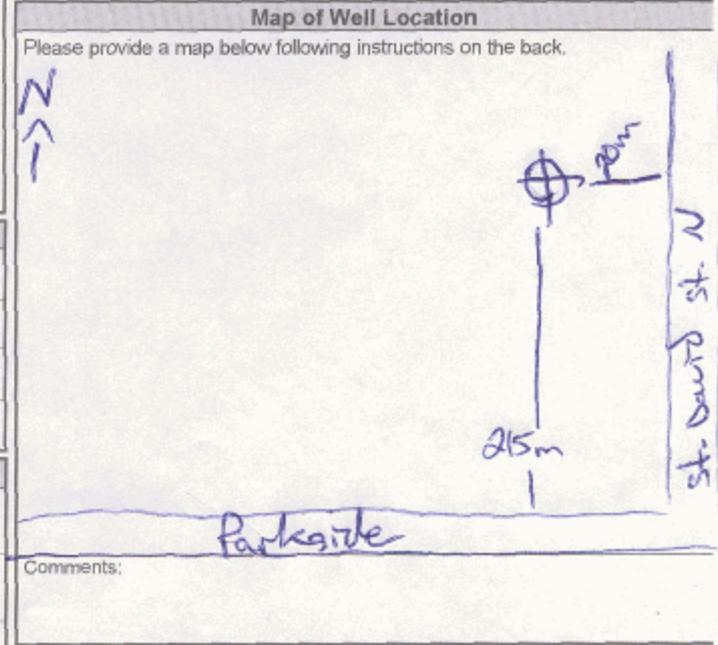
Hole Diameter

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



Well owner's information package delivered: Yes No

Date Package Delivered: 2011/08/27

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	Depth (m/ft) To
brown	gravel	sand	loose	0	2
brown	course sand		soft	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 (m³/ft³)
0	3.1	Concrete	.0026
3.1	1.2	Bentonite	.0042
1.2	4.5	Silica 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	
	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	
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 **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: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter Depth (m/ft) From	Hole Diameter Depth (m/ft) To	Hole 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: **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
 Lot:
 Concession:
 County/District/Municipality:
 City/Town/Village: Fergus
 Province: Ontario
 Postal Code:
 UTM Coordinates: Zone 17, Easting 549151, Northing 4840137
 Municipal Plan and Sublot Number:
 Other:
 NAD 83

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	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 ³ /ft ³)
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 <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)
		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: Ontario 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):

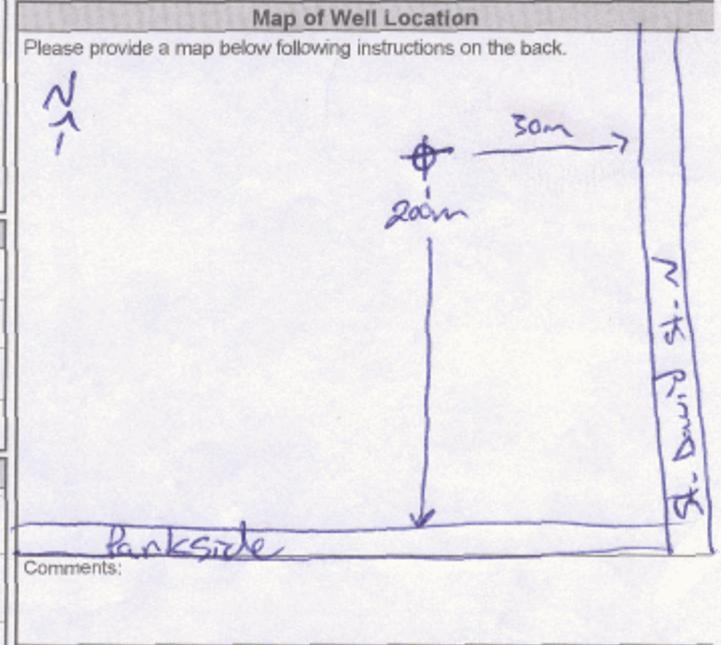
Recommended pump depth (m/ft):

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

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	Zone 17	Easting 548813	Northing 4840019	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
	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 To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)

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"/> Commercial <input 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		
				<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 _____	

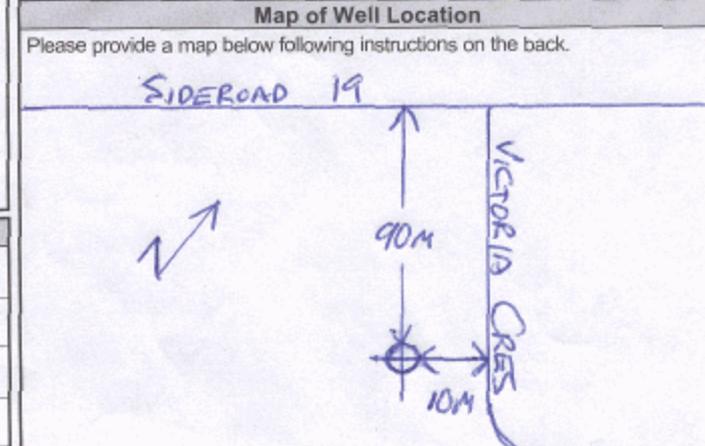
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To

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)

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	

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 <i>[Signature]</i>
	Date Submitted 2011/10/30

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	
Pump intake set at (m/ft)	3		3	
Pumping rate (l/min / GPM)	4		4	
Duration of pumping ____ hrs + ____ min	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?	40		40	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50		50	
	60		60	



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 2011/10/14	Ministry Use Only Audit No. 2137811 NOV 29 2011 Received
Date Work Completed 2011/10/14		



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: 100 Applewood Cres., Site 100, Municipality: Vaughan, Province: ON, Postal Code: L4K 1S3, Telephone No.: 416 760 6200

Well Location

Address of Well Location: St. David St. N. + Woodhill Dr., Township: Nichol, City/Town/Village: Fergus, Province: Ontario, Postal Code: [Redacted], UTM Coordinates: NAD 83, Zone 17, Easting 549211, Northing 4840069

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. Handwritten entries include brown sand, stones, and depths from 0 to 4.5 m.

Annular Space table with 3 columns: Depth Set at (m/ft) From/To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Handwritten entries include concrete, bentonite chips, and sand.

Method of Construction and Well Use checkboxes. Method of Construction: Other, specify auger. Well Use: Monitoring (checked).

Construction Record - Casing table with 5 columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From/To, Status of Well. Handwritten entry: 5.1 plastic, 0.65, 0 to 1.5, Observation and/or Monitoring Hole (checked).

Construction Record - Screen table with 5 columns: Outside Diameter, Material, Slot No., Depth (m/ft) From/To, Status of Well. Handwritten entry: 6.4 plastic, 10, 1.5 to 4.5.

Water Details and Hole Diameter tables. Water Details: 3 rows of depth and kind of water. Hole Diameter: Depth 0 to 4.5, Diameter 21.

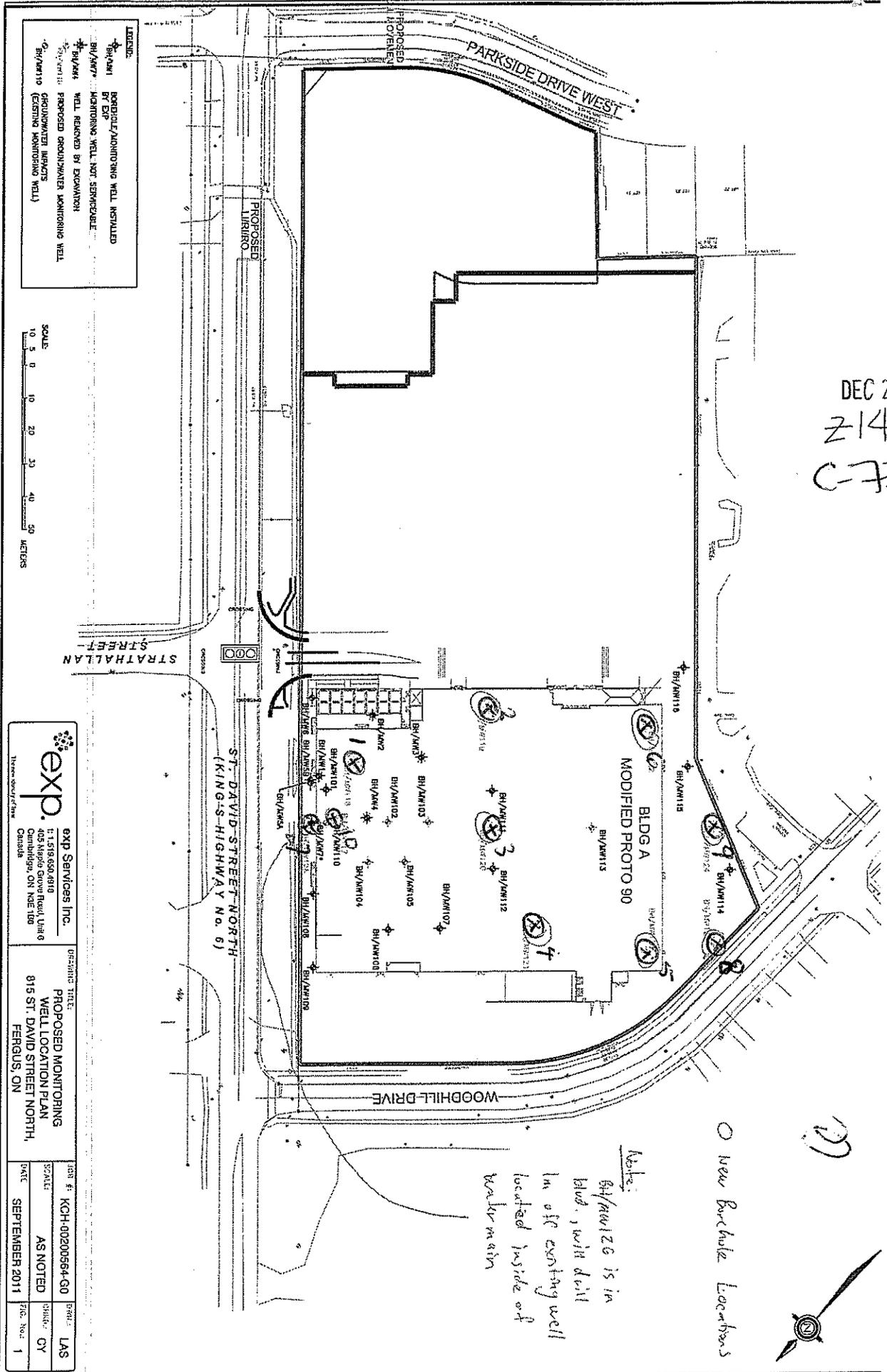
Well Contractor and Well Technician Information. Business Name: Ardmark Drilling Inc., Business Address: 25 Lewis Road, Unit C, Guelph, ON N1H1E9. Well Contractor's Licence No.: 710318. Well Technician: Gordon, Michal, Licence No.: 31590, Date Submitted: 2011/00/14.

Results of Well Yield Testing table with 4 columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate, duration, and final water level.

Map of Well Location section with instructions: Please provide a map below following instructions on the back.

Comments: No. 3 on map. Ministry Use Only: Audit No. Z140390, Received DEC 28 2011. Well owner's information package delivered: Yes/No.

DEC 28 2011
 Z14039C
 C-7D38



LEGEND:

- BH/AM1: GENERAL/MONITORING WELL INSTALLED BY EIP
- BH/AM7: MONITORING WELL NOT SERVICABLE
- BH/AM4: WELL REMOVED BY EXCAVATION
- BH/AM11: PROPOSED GROUNDWATER MONITORING WELL (EXISTING MONITORING WELL)
- BH/AM10: GROUNDWATER IMPACTS (EXISTING MONITORING WELL)

SCALE:
 0 5 10 20 30 40 50 METERS

exp. Services Inc.
 1-519-650-4816
 405 Maple Grove Road, Unit 6
 Cambridge, ON N3E 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 BY
PROJECT NO.	KQH-00200564-G0	DATE

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)

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, 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

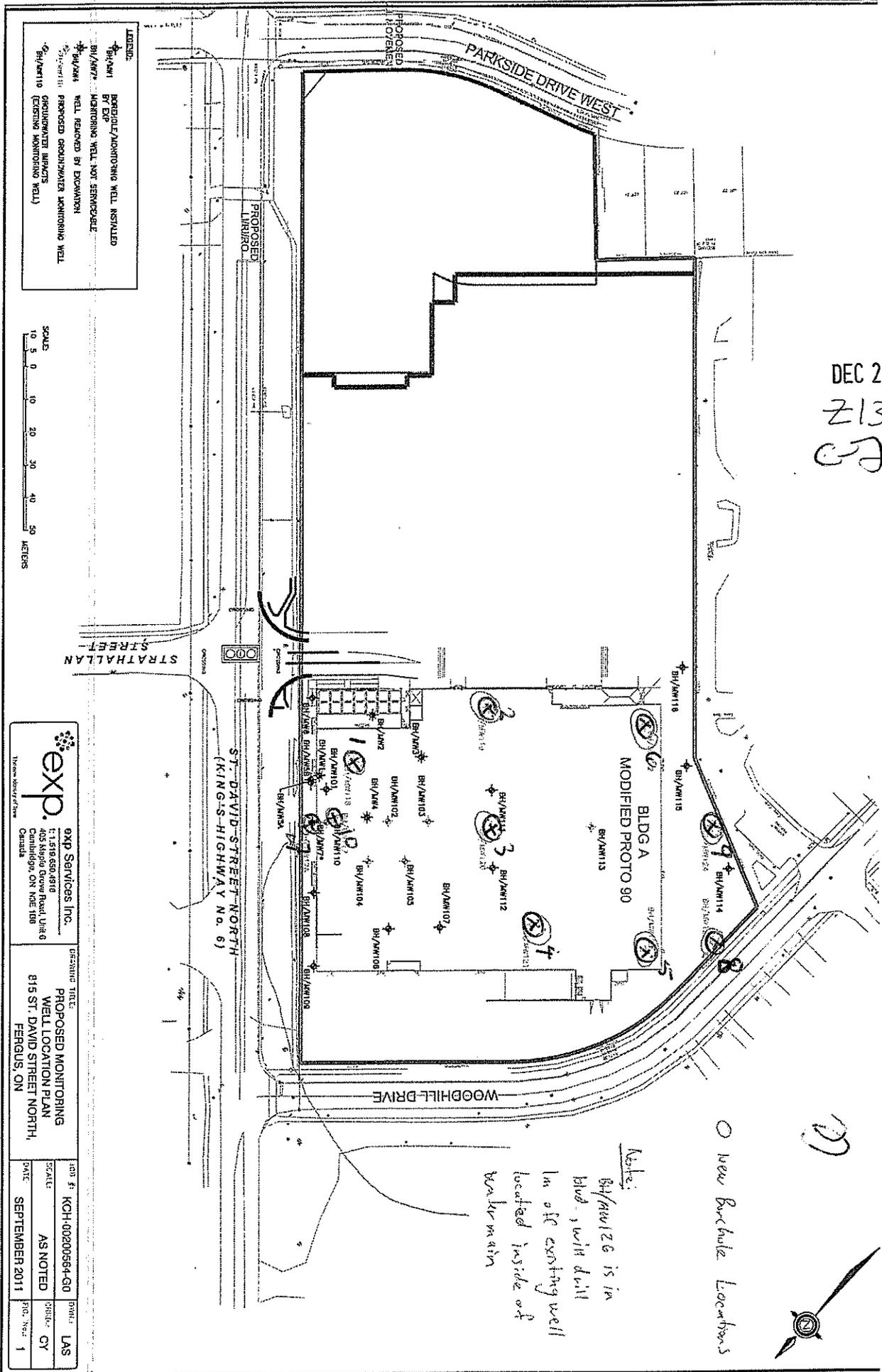
Water Details and Hole Diameter tables

Well Contractor and Well Technician Information form

Map of Well Location form

Ministry Use Only form with Audit No. 2135904 and Date 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 1R8
 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	DATE	SEPTEMBER 2011
SCALE	AS NOTED	DATE	SEPTEMBER 2011
DATE	SEPTEMBER 2011	DATE	SEPTEMBER 2011

O New Borehole Locations

Note:
 BH/AM126 is in
 bldg, will drill
 in off existing well
 located inside of
 water main



11-21359-026



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)

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use checkboxes and 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

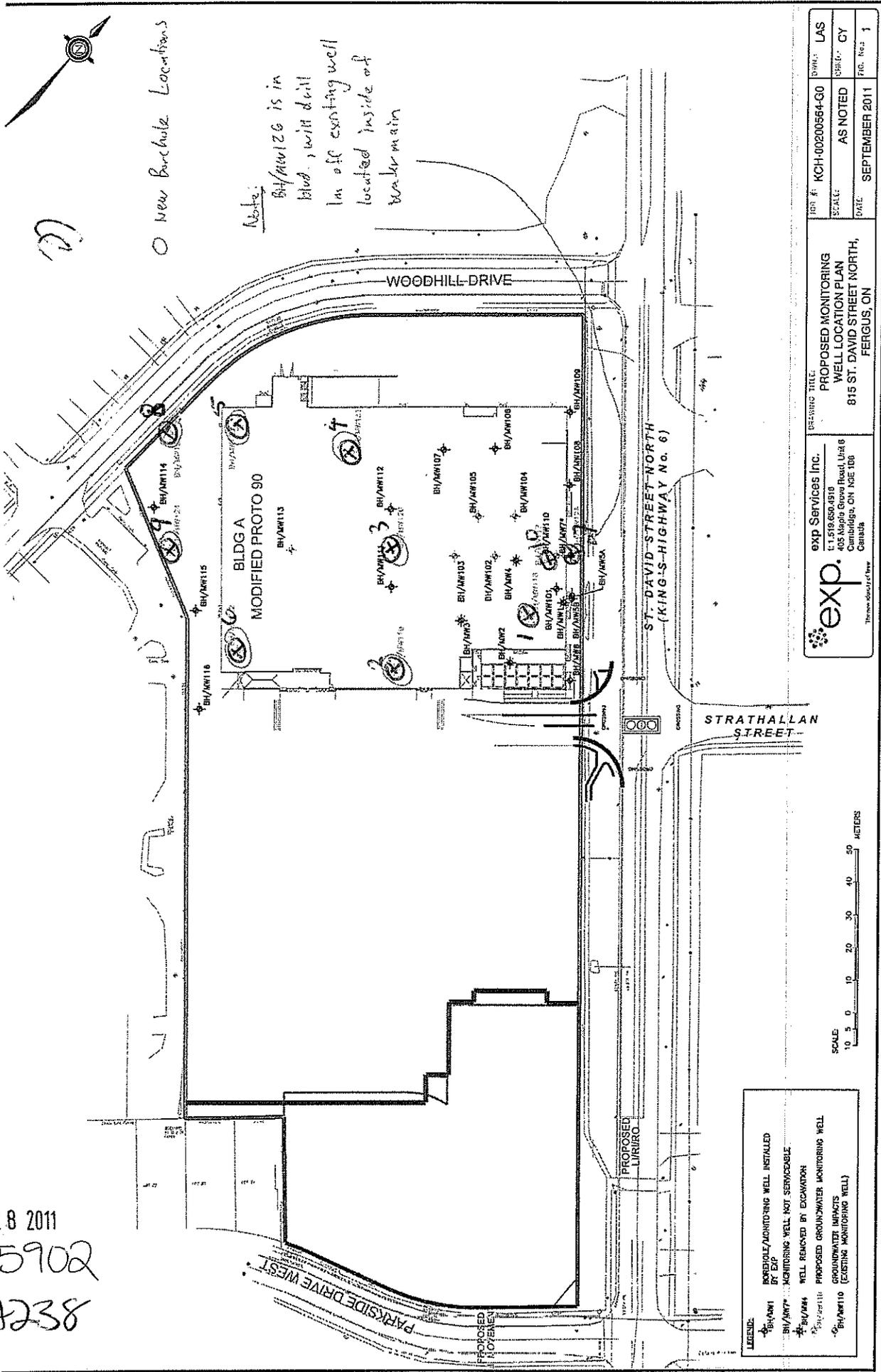
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information form

Map of Well Location, Comments, Ministry Use Only section

DEC 2 8 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: PROPOSED MONITORING WELL LOCATION PLAN 815 ST. DAVID STREET NORTH, FERGUS, ON	DRAWING NO.: KCH-00200564-G0	SHEET: AS NOTED	DATE: SEPTEMBER 2011	DRAWN BY: LAS
	SCALE: AS NOTED		DATE: SEPTEMBER 2011		SHEET NO.: 1 OF 1

- LEGEND:
- BH/AM#1 BOREHOLE/MONITORING WELL INSTALLED BY EXP
 - BH/AM#4 MONITORING WELL NOT SERVICEABLE
 - BH/AM#4 WELL REMOVED BY EXCAVATION
 - BH/AM#113 PROPOSED GROUNDWATER MONITORING WELL
 - BH/AM#110 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: _____ Well Constructed by Well Owner

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: _____ Concession: _____

County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: _____

UTM Coordinates: Zone 18 Easting 317549153 Northing 4840062 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>3.8</u>
<u>brown</u>	<u>silt</u>	<u>stones</u>		<u>3.8</u>	<u>6.1</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>2.7</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 Industrial Other, specify _____

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	
<u>5.1</u>	<u>plastic</u>	<u>0.65</u>	<u>0</u>	<u>3.1</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>6.4</u>	<u>plastic</u>	<u>10</u>	<u>3.1</u>	<u>6.1</u>	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft) From To	Diameter (cm/in)
<u>0</u>	<u>6.1</u>	<u>21</u>	

Well Contractor and Well Technician Information

Business Name of Well Contractor: Hardback Drilling Inc. Well Contractor's Licence No.: 7121318

Business Address (Street Number/Name): 25 Lewis Road - Unit C Municipality: Geith

Province: ON Postal Code: N1H 1E9 Business E-mail Address: _____

Bus. Telephone No. (inc. area code): 519 886 9340 Name of Well Technician (Last Name, First Name): Gordon, Mich

Well Technician's Licence No.: 315910 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011/10/04

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: No. 6 on map

Well owner's information package delivered: Yes No

Date Package Delivered: 2011/10/05

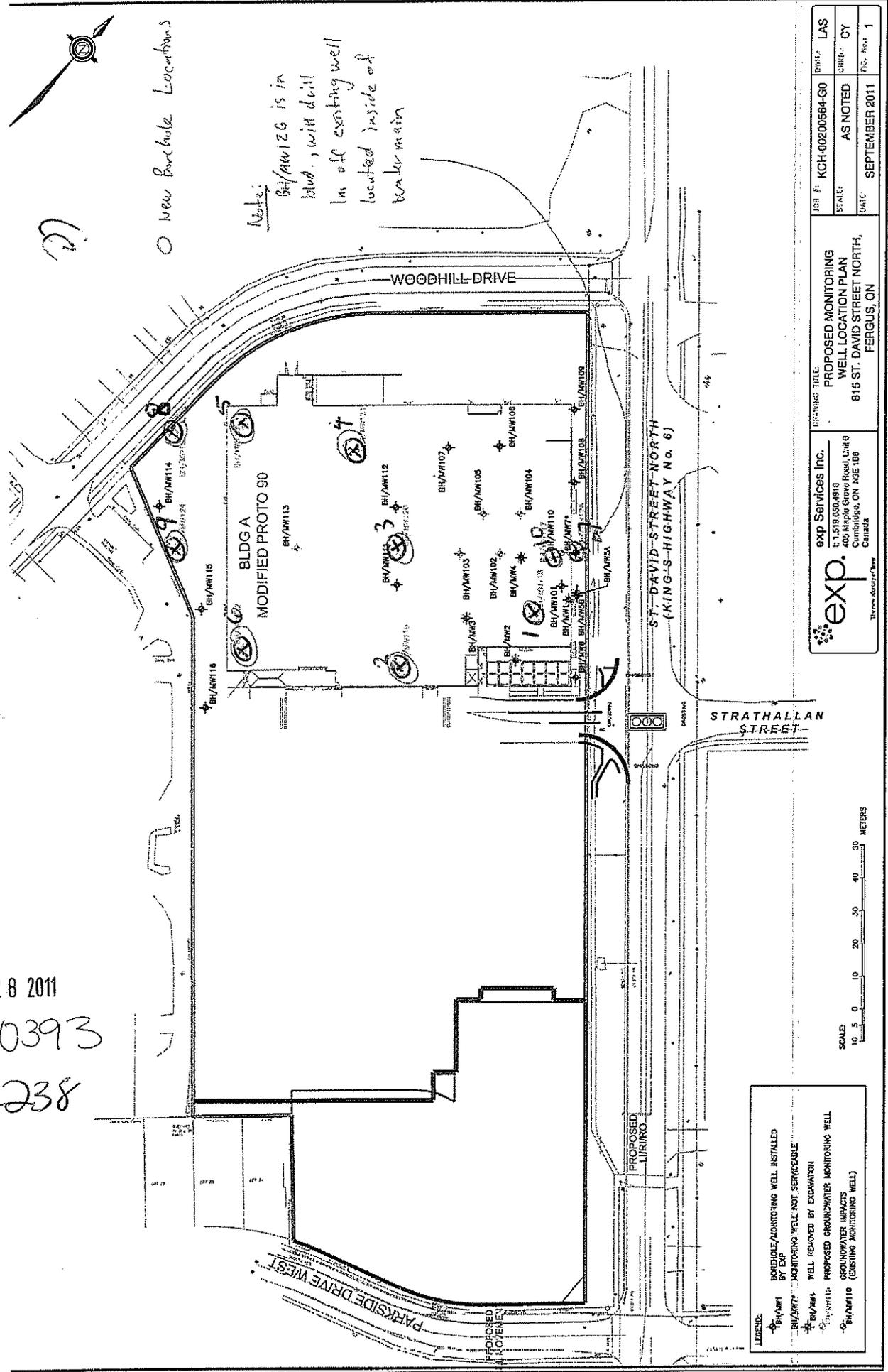
Date Work Completed: 2011/10/05

Ministry Use Only

Audit No.: 2140393

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: PROPOSED MONITORING WELL LOCATION PLAN 815 ST. DAVID STREET NORTH, FERGUS, ON	PROJ #: KCH-00200564-G0	BWH #: LAS
SCALE: AS NOTED		DATE: SEPTEMBER 2011	ORIG. BY: CY	REC. NO. #: 1

11-01-01-01



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, Recovery, 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 section with checkboxes for 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

Water Details and 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 section with fields for Business Name, Address, Licence No., etc.

Map of Well Location section with instructions and a space for a map.

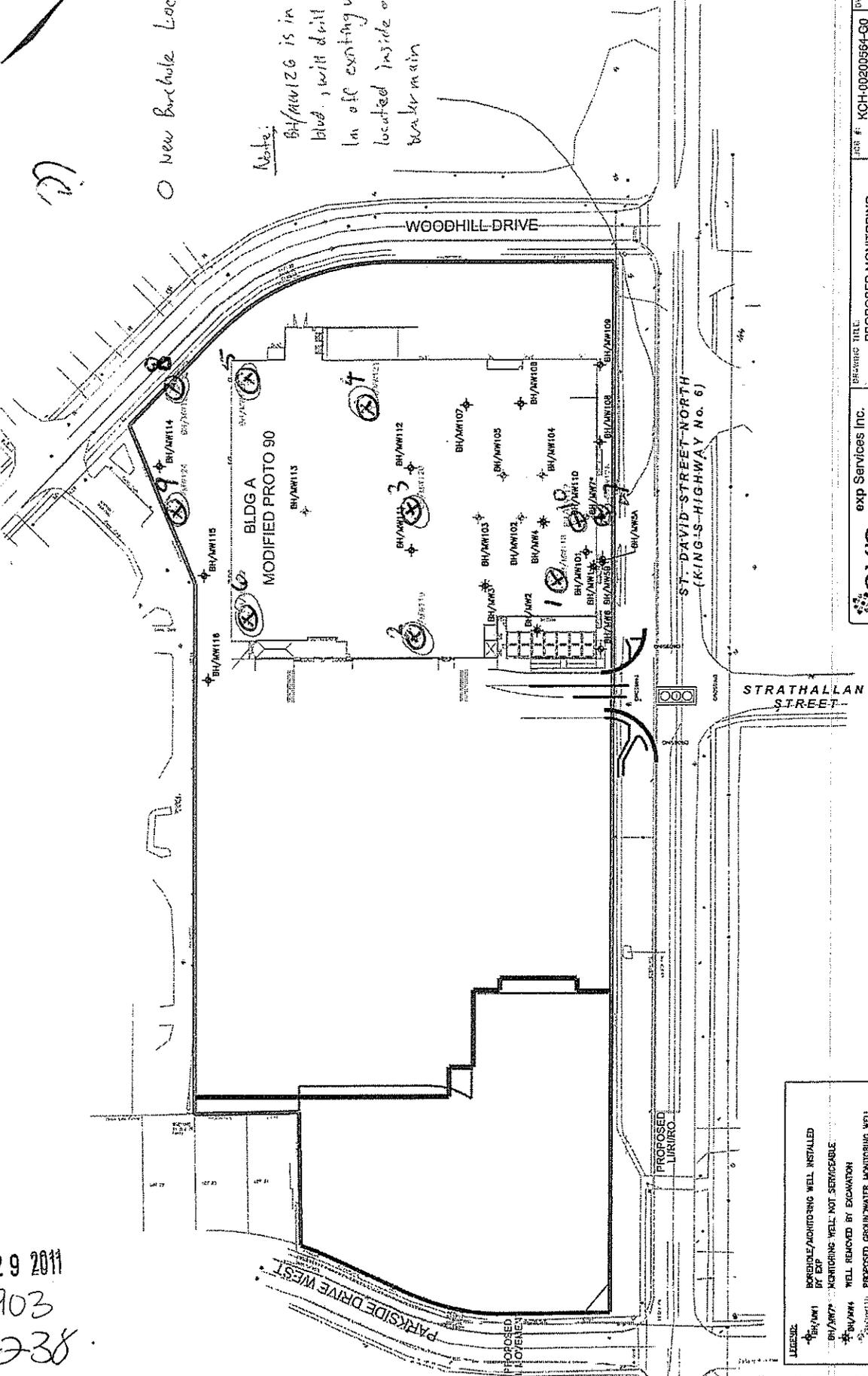
Well Technician Information section with fields for Business Telephone No., Name of Well Technician, Signature, Date Submitted

Ministry Use Only section with fields for Date Package Delivered, Date Work Completed, 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 6
 Cambridge, ON N3E 1B8
 Canada
 The Power Quality of Water

DEC 29 2011
 Z135903
 C-7238



Measurements recorded in: Metric Imperial

11-0159-00

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, 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

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down, Recovery, 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, Driving, 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

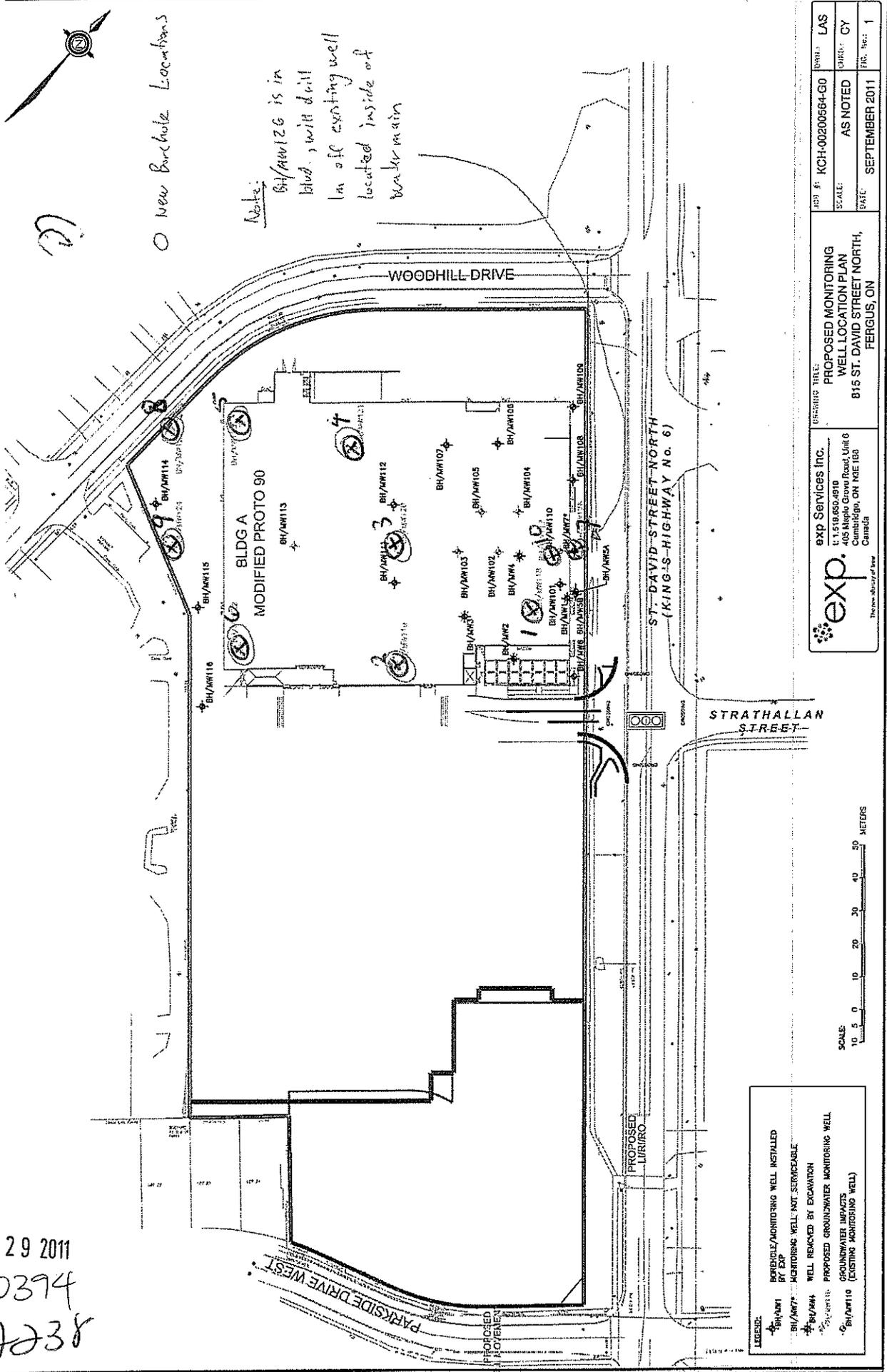
Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To, Status of Well

Water Details and 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: Business Name, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature, Date Submitted

Map of Well Location: Please provide a map below following instructions on the back. Comments: No. 7 on map. Ministry Use Only: Audit No. Z140394, DEC 29 2011

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 N4E 1B8
 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

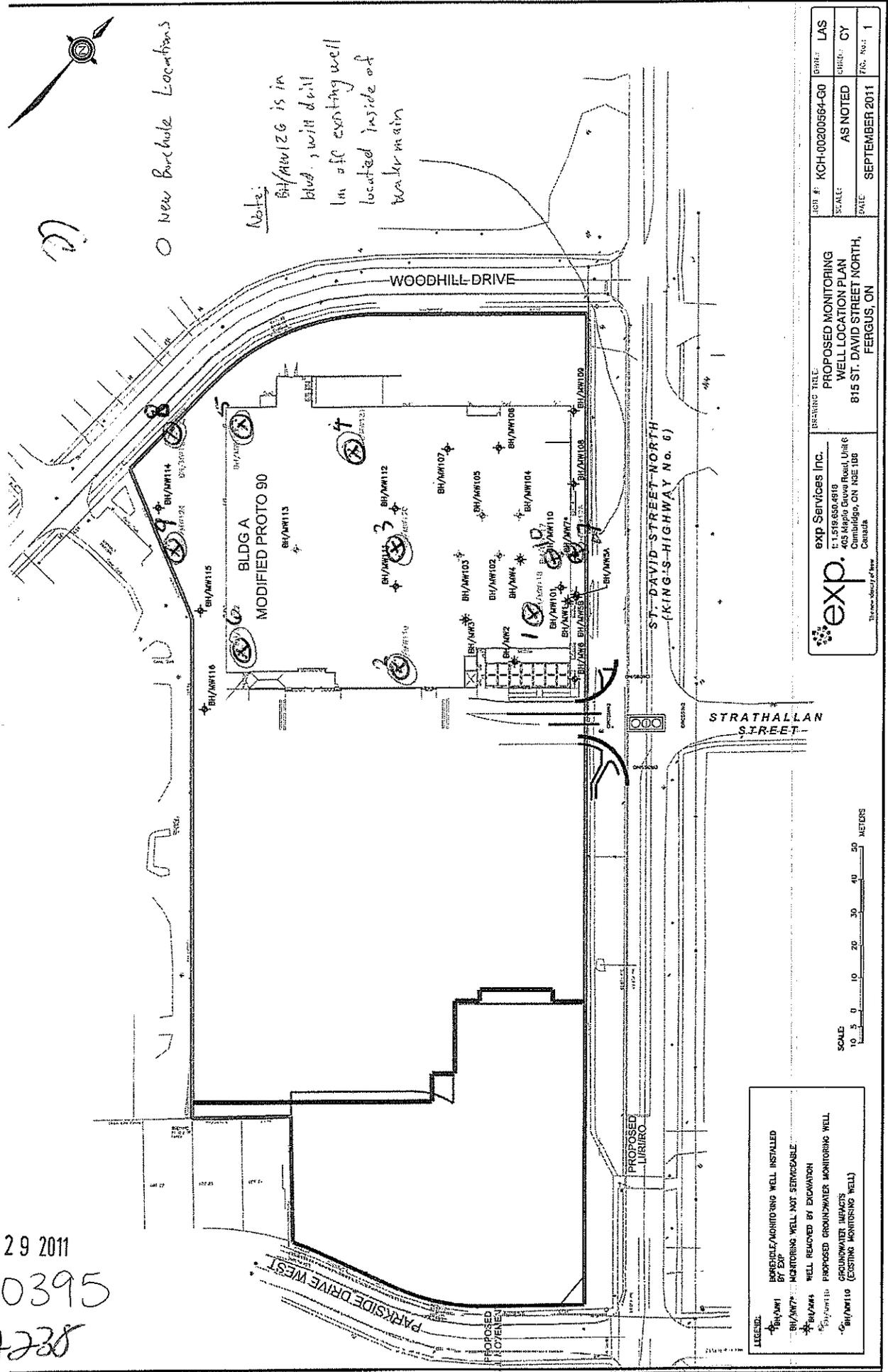
Water Details and Hole Diameter tables with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

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., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, 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 (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. 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/AM106 is in
 blvd., will drill
 in old existing well
 located inside of
 water main

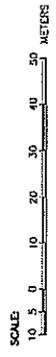
DRAWING TITLE:		JOB #:		DRAWN:	
PROPOSED MONITORING WELL LOCATION PLAN		KCH-00200564-G0		LAS	
815 ST. DAVID STREET NORTH, FERGUS, ON		SCALE:		CHECKED:	
		AS NOTED		CY	
		DATE:		TRAC. NO.:	
		SEPTEMBER 2011		1	

exp.
 The new standard of care

exp. Services Inc.
 1. 519.650.4816
 405 Maple Grove Road, Unit 6
 Cambridge, ON N9E 1B6
 Canada

LEGEND:

	PROPOSED MONITORING WELL INSTALLED BY EXP
	PROPOSED MONITORING WELL NOT SERVICEABLE
	WELL REMOVED BY EXCAVATION
	PROPOSED GROUNDWATER MONITORING WELL
	GROUNDWATER IMPACTS (EXISTING MONITORING WELL)





Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A115476

11-0159-00

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Erco's 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: L4K 1S1X3 Telephone No. (inc. area code): [Redacted]

Well Location

Address of Well Location (Street Number/Name): St. David St. N. + Woodhill Dr. Township: Norhol Lot: [Redacted] Concession: [Redacted]

County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: [Redacted]

UTM Coordinates: Zone: 18 Easting: 317549111 Northing: 4840040 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
<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 - 0.3</u>	<u>concrete</u>	
<u>0.3 - 1.8</u>	<u>bedonite chips</u>	
<u>1.8 - 5.3</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

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 <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
		<u>0</u>	<u>21</u>
		<u>5.3</u>	

Well Contractor and Well Technician Information

Business Name of Well Contractor: Advanced 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: [Redacted]

Bus. Telephone No. (inc. area code): 519-826-9340 Name of Well Technician (Last Name, First Name): Gordon, Micah

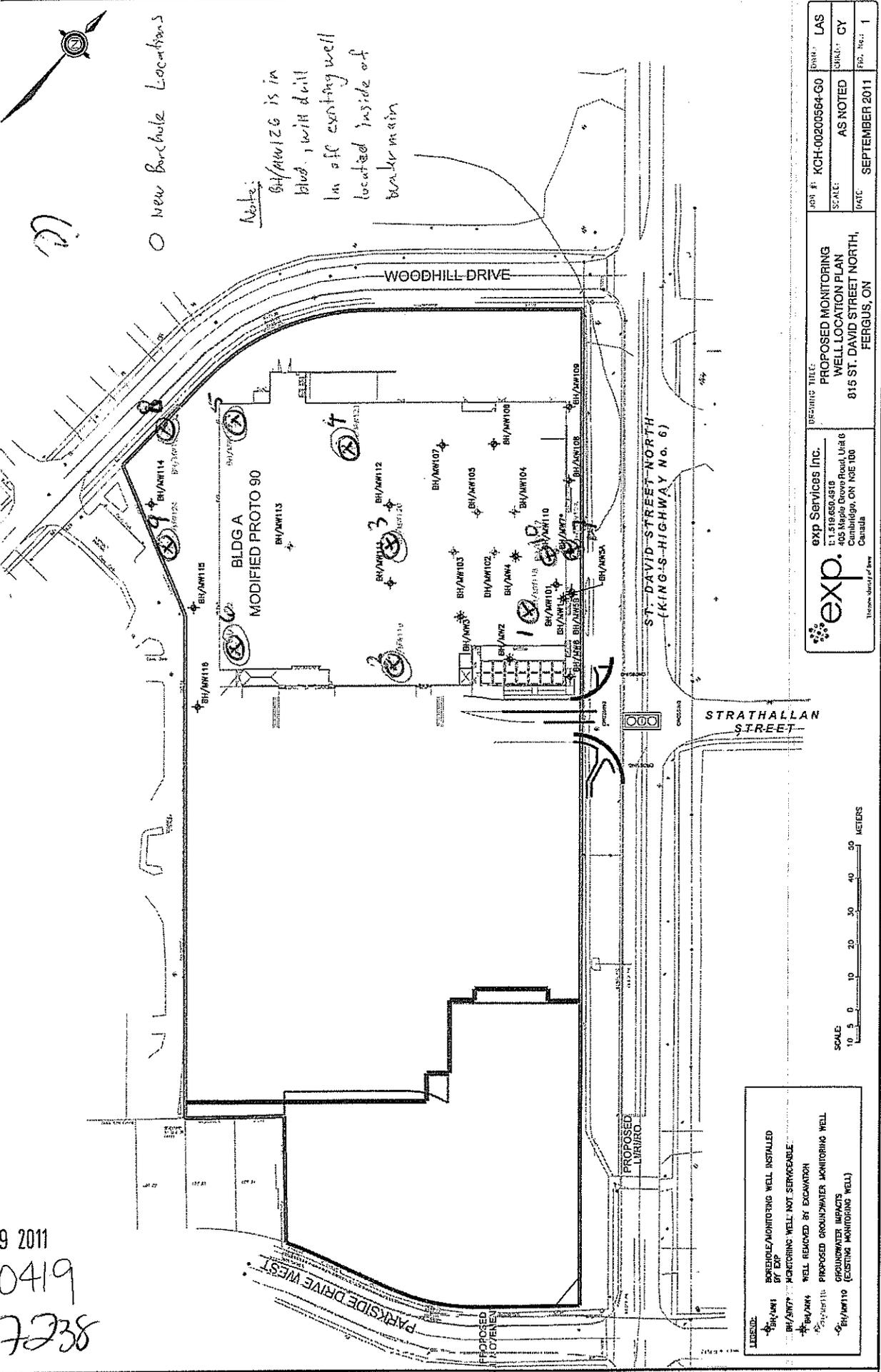
Well Technician's Licence No.: 315910 Signature of Technician and/or Contractor: [Signature] Date Submitted: 2011/10/14

Map of Well Location

Please provide a map below following instructions on the back.

Comments: No. 9 on map

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 <u>201111005</u>	Audit No. <u>2140419</u> Received <u>DEC 29 2011</u>



○ New Borehole Locations

Note:
BH/AM126 is in
blvd. with drill
in off existing well
located inside of
braker main

JOB #:	KCH-00200564-G0	DATE:	SEPTEMBER 2011
SCALE:	AS NOTED	DATE:	SEPTEMBER 2011
DATE:	SEPTEMBER 2011	DATE:	SEPTEMBER 2011

DRAWING TITLE:
PROPOSED MONITORING
WELL LOCATION PLAN
815 ST. DAVID STREET NORTH,
FERGUS, ON

exp. Services Inc.
11-1519-650-4510
405 Maple Grove Road, Unit 6
Cambridge, ON N3E 1G0
Canada

- LEGEND:
- BOREHOLE/MONITORING WELL INSTALLED BY EXP
 - ⊕ MONITORING WELL NOT SERVICEABLE
 - ⊕ WELL REMOVED BY EXCAVATION
 - ⊕ PROPOSED GROUNDWATER MONITORING WELL
 - ⊕ PROPOSED GROUNDWATER IMPACTS (EXISTING MONITORING WELL)

DEC 29 2011
Z140419
C-7238



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, Air percussion, Diamond, Jetting, 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

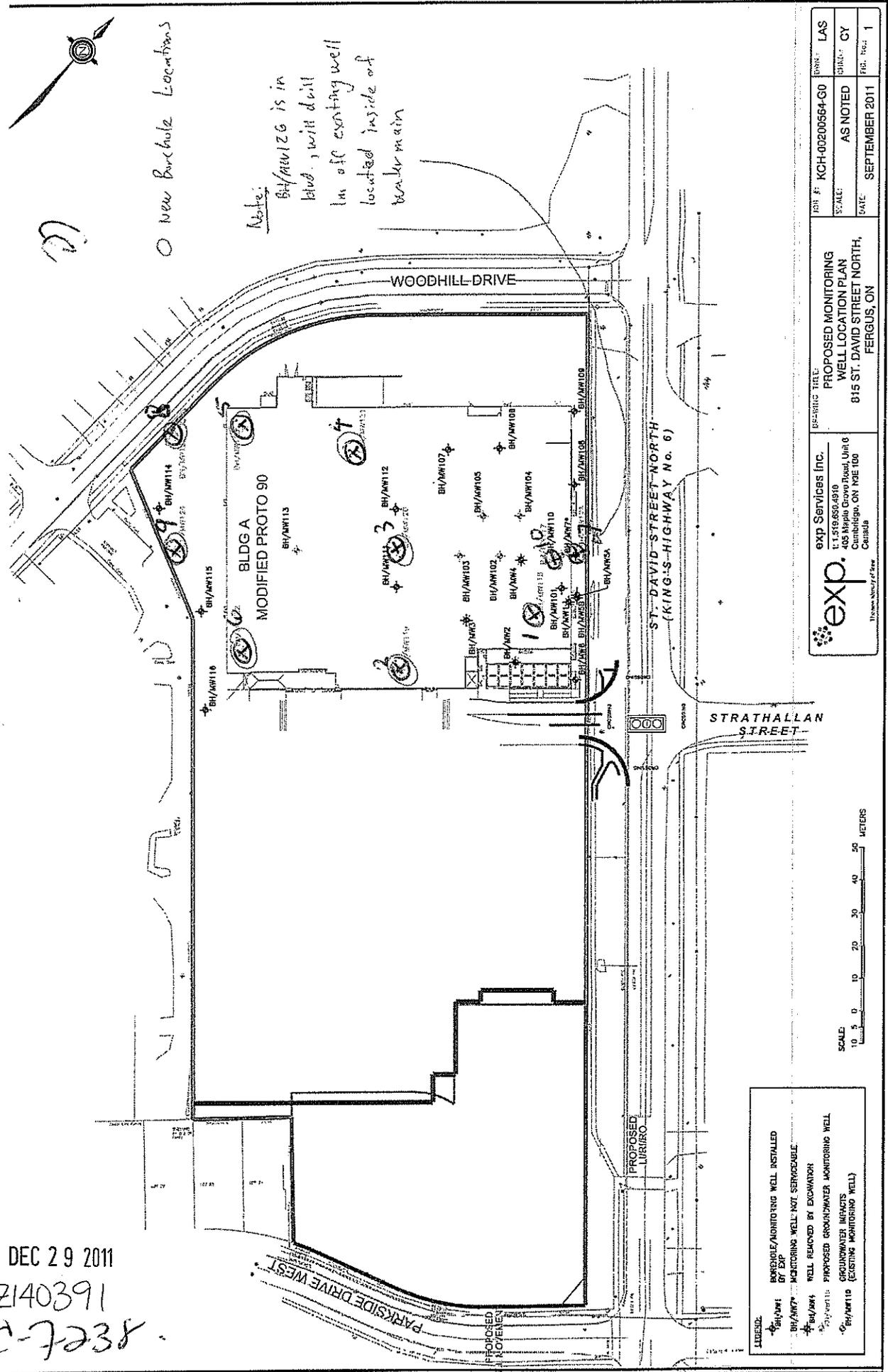
Water Details and Hole Diameter tables

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., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level), Static 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?

Map of Well Location: Please provide a map below following instructions on the back. Comments: No. 4 on map. Ministry Use Only: Audit No. 2140391, Received DEC 29 2011

822-C
 2140391
 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/AM18 GROUNDWATER MONITORING WELL (EXISTING MONITORING WELL)

SCALE 1:5000
 0 5 10 20 30 40 50 METERS

exp. Services Inc.
 U: 1.519.859.4810
 405 Maple Grove Road, Unit 8
 Cambridge, ON N4E 1G6
 Canada
 Tel: 519-859-7242

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: 101-1



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 table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

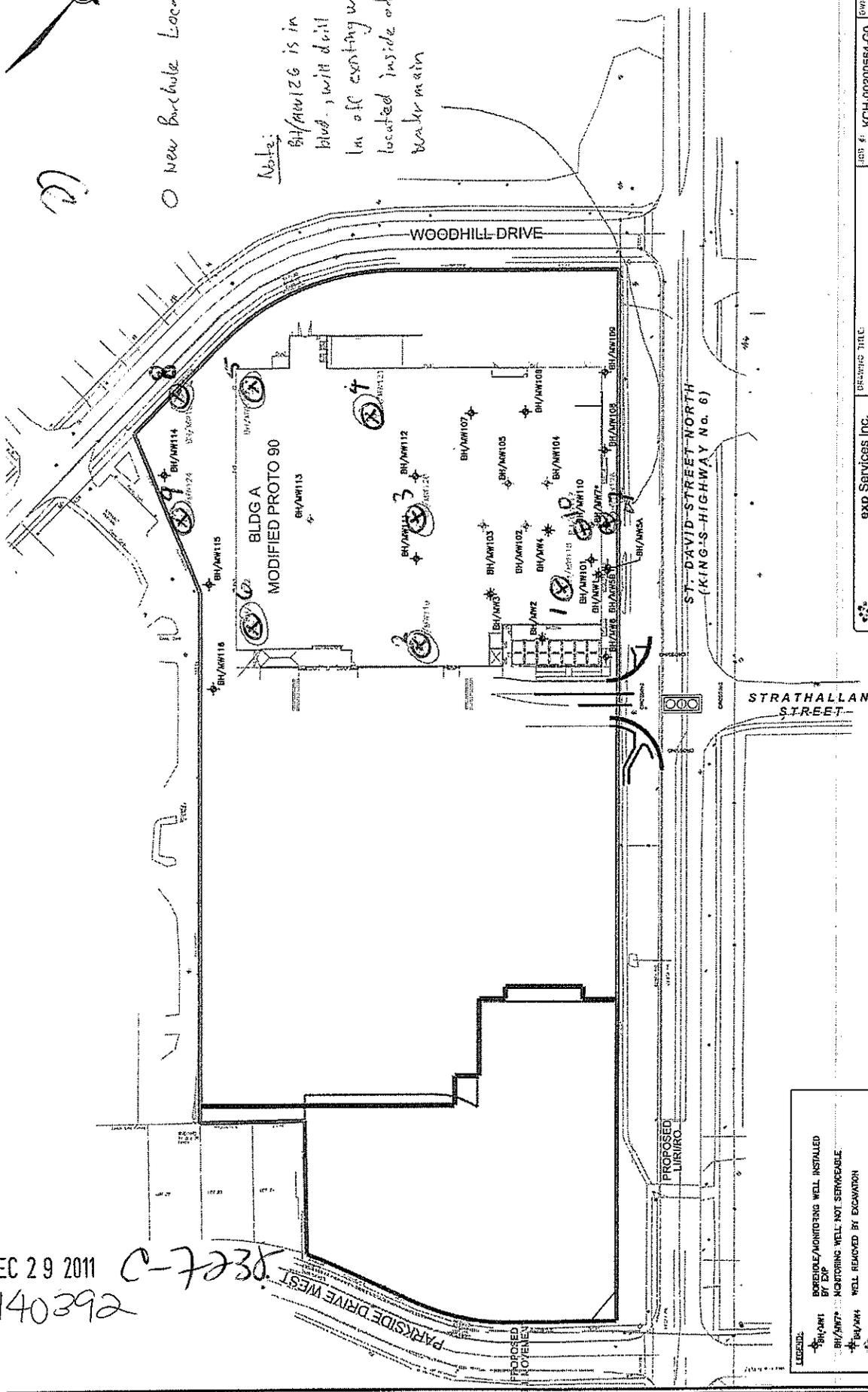
Well Contractor and Well Technician Information

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. 1-518-650-4819 405 Kingsley Grove Road, Unit 8 Cambridge, ON N3E 1D8 Canada <small>TRUSTED CONSULTANTS</small>	DRAWING TITLE PROPOSED MONITORING WELL LOCATION PLAN 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

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

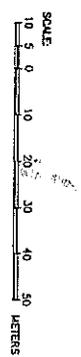
Comments section with handwritten note: Please see attached map.

Well owner's information package delivered checkboxes and date work completed

Ministry Use Only section with Audit No. and date

LEGEND

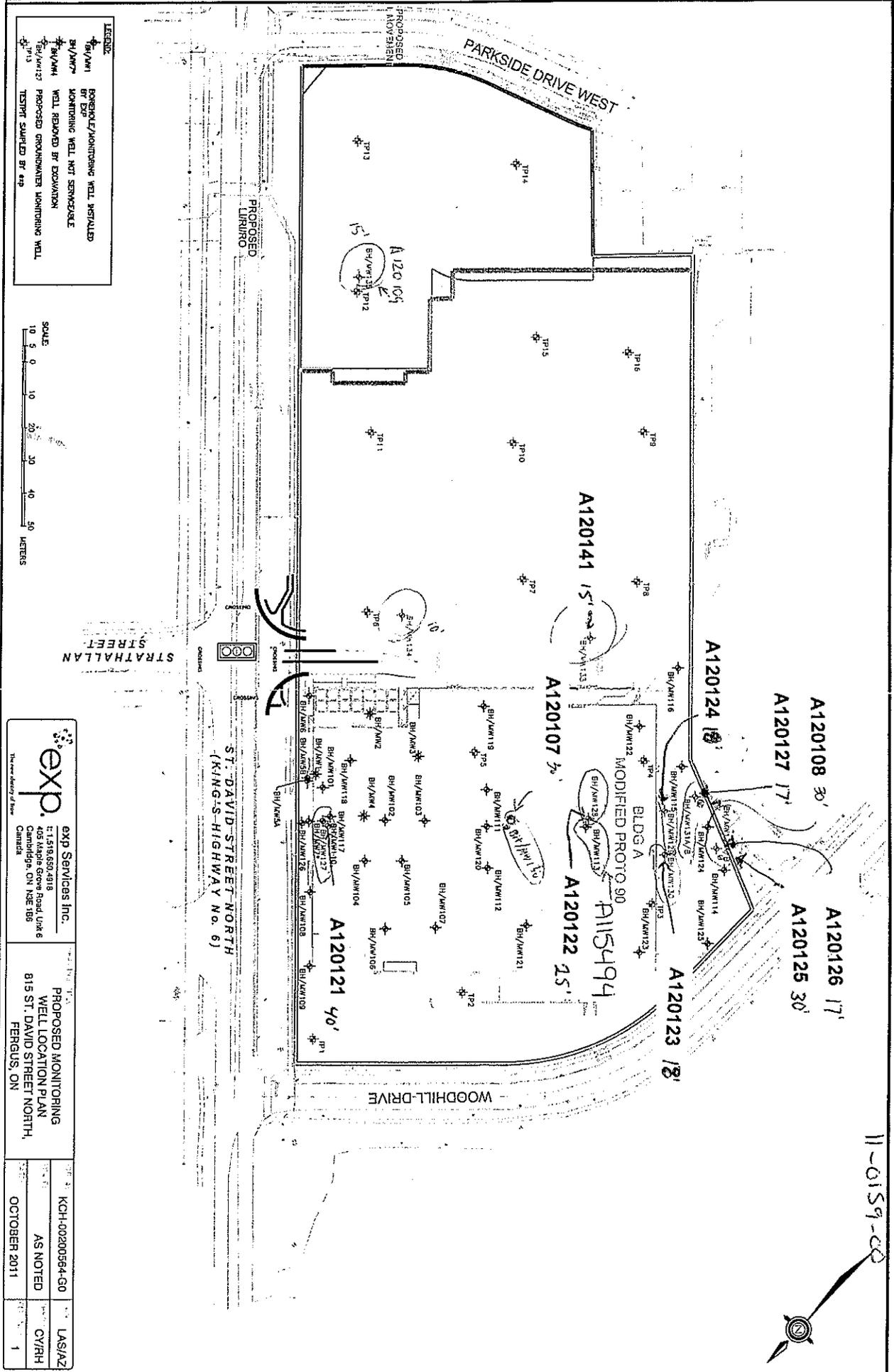
- BH/MW1 PROPOSED/MONITORING WELL INSTALLED BY EXP
- BH/MW2 MONITORING WELL NOT SERVICABLE
- BH/MW4 WELL REMOVED BY EXCAVATION
- BH/MW12 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SAMPLED BY EXP



exp Services Inc.
 T: 1.519.650.418
 405 Maple Grove Road, Unit 6
 Cambridge, ON N6E 1R6
 Canada

PROPOSED MONITORING WELL LOCATION PLAN
 815 ST. DAVID STREET NORTH,
 FERRIS, ON

PROJECT NO.	KCH-00200564-G0	DRAWN BY	LAS/AZ
DATE	AS NOTED	CHECKED BY	CY/RH
DATE	OCTOBER 2011	SCALE	1



C-7238
 240439

JAN 19 2012

11-0159-00



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, 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

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 (min), Water Level (m/ft)

Method of Construction and Well Use checkboxes

Construction Record - Casing and Status of Well tables

Construction Record - Screen table

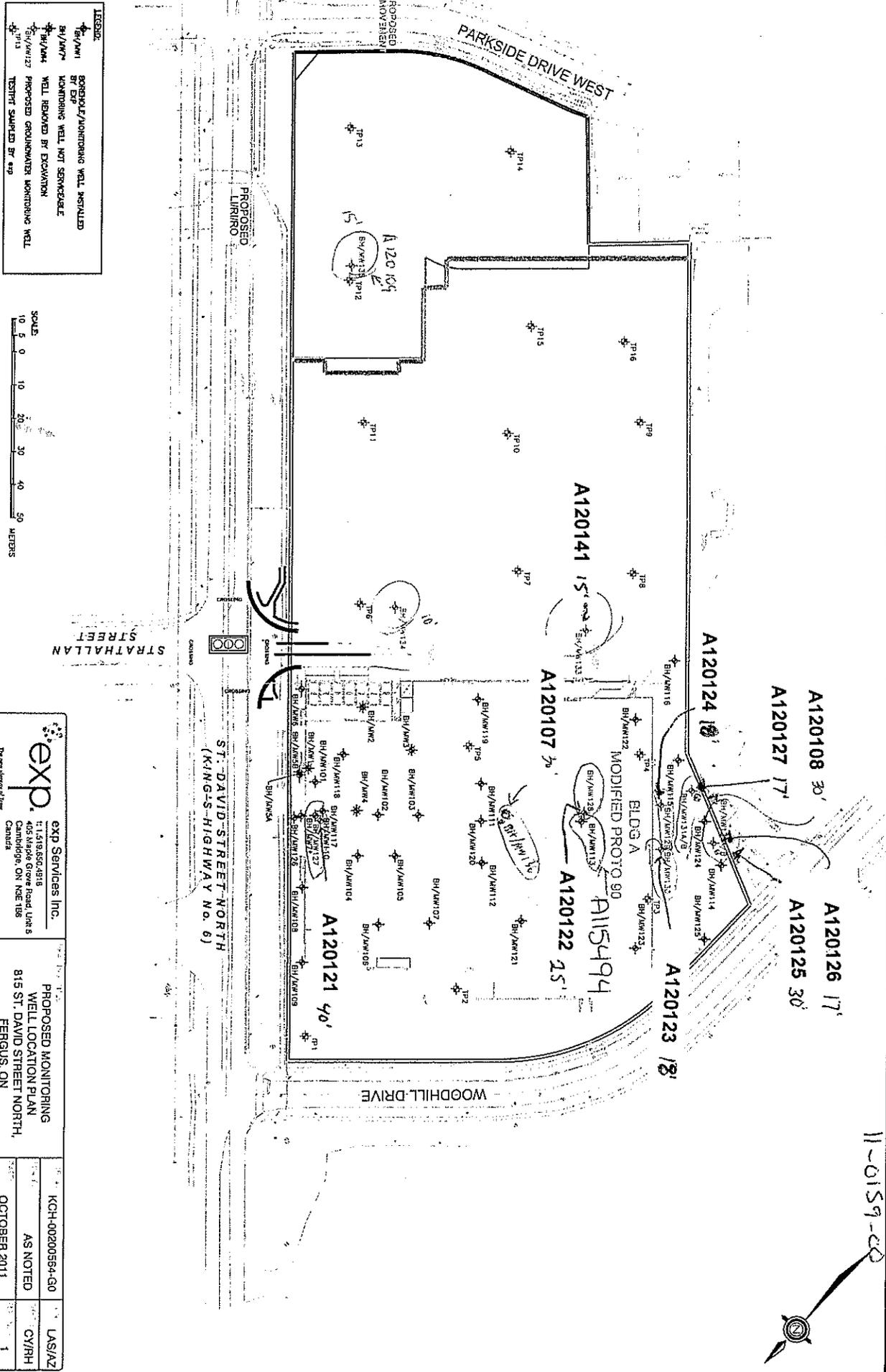
Water Details and Hole Diameter tables

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)

Please see attached map.



LEGEND

- ☉ BOREHOLE/MONITORING WELL INSTALLED BY EIP
- ☉ MONITORING WELL NOT TO BE INSTALLED BY EIP
- ☉ WELL TO BE REMOVED BY EXCAVATION
- ☉ PROPOSED GROUNDWATER MONITORING WELL
- ☉ TESTING SAMPLED BY EIP

SCALE
 0 10 20 30 40 50 METERS

exp Services Inc.
 1: 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,
 FERRIS, 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 checkboxes

Construction Record - Casing and Screen tables with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Water Details and Hole Diameter tables with columns: Water found at Depth, Kind of Water, Depth (m/ft), Diameter (cm/in)

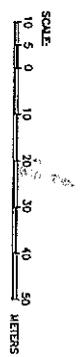
Well Contractor and Well Technician Information form

Map of Well Location section with instructions and a large handwritten note: 'Please see attached map.'

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Signature of Technician and/or Contractor

Ministry Use Only section with Audit No. 2140441 and date JAN 19 2012

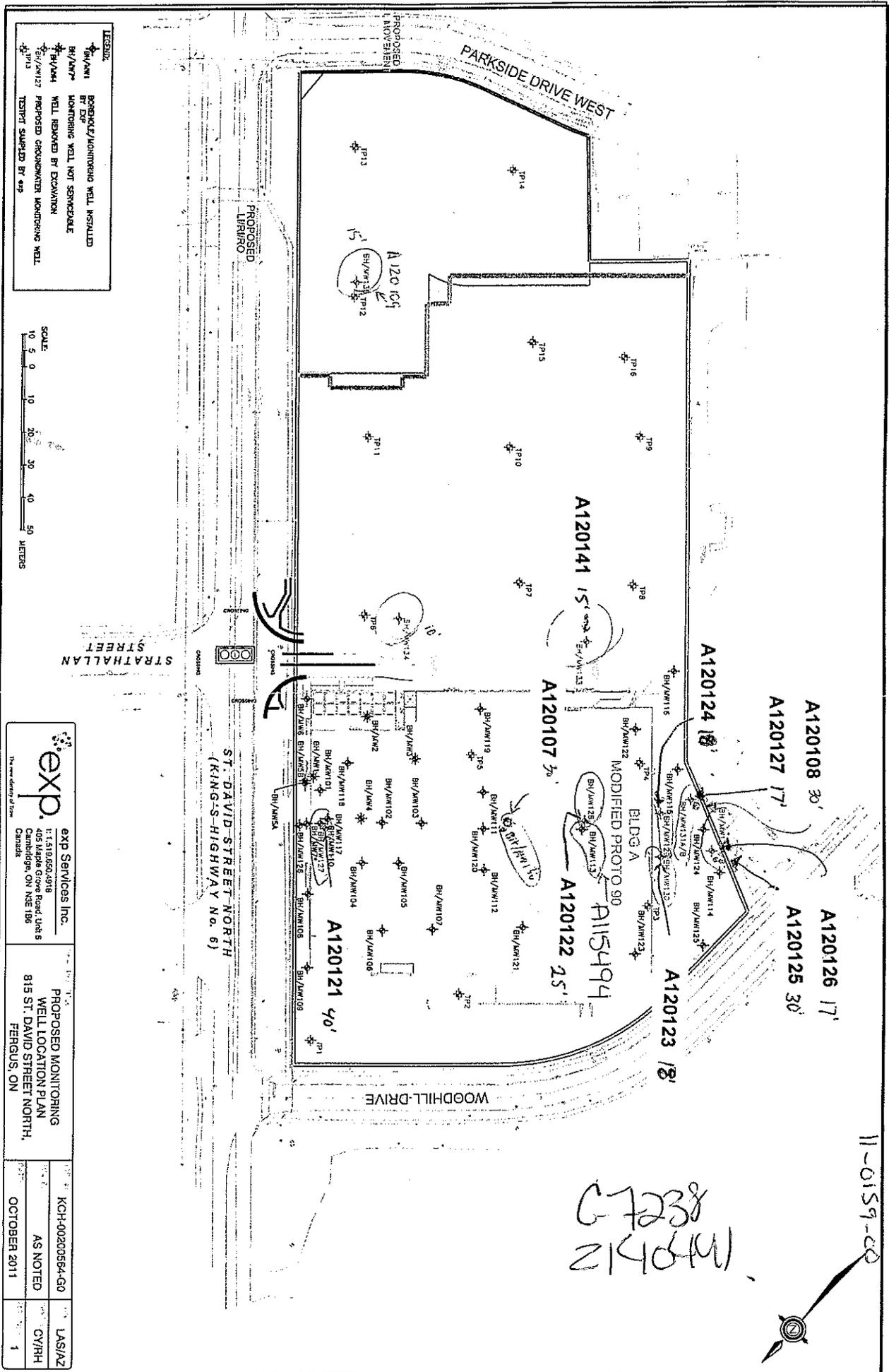
- LEGEND**
- BR/AM1 PROPOSED/MONITORING WELL INSTALLED BY EXP
 - BR/AM2 MONITORING WELL NOT SERVICED BY EXP
 - BR/AM4 WELL REMOVED BY EXCAVATION
 - BR/AM12 PROPOSED GROUNDWATER MONITORING WELL
 - TP13 TEST PIT SAMPLED BY EXP



exp Services Inc.
 1-819-850-4918
 405 Maple Grove Road, Unit 8
 Cambridge, ON N6E 1B6
 Canada

PROPOSED MONITORING WELL LOCATION PLAN
 815 ST. DAVID STREET NORTH,
 FERGUS, ON

PROJECT NO.	KCH-00200564-G0	DATE	LAS/AZ
SCALE	AS NOTED	DATE	CY/RH
DATE	OCTOBER 2011	DATE	1



Handwritten: 11-0159-00
 2107 5 1 NOV





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 tables

Well Contractor and Well Technician Information: Business Name, Address, Licence No., Municipality, E-mail Address, Telephone No., Name of Well Technician, Signature, Date Submitted

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

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only: Audit No., JAN 19 2012

LEGEND

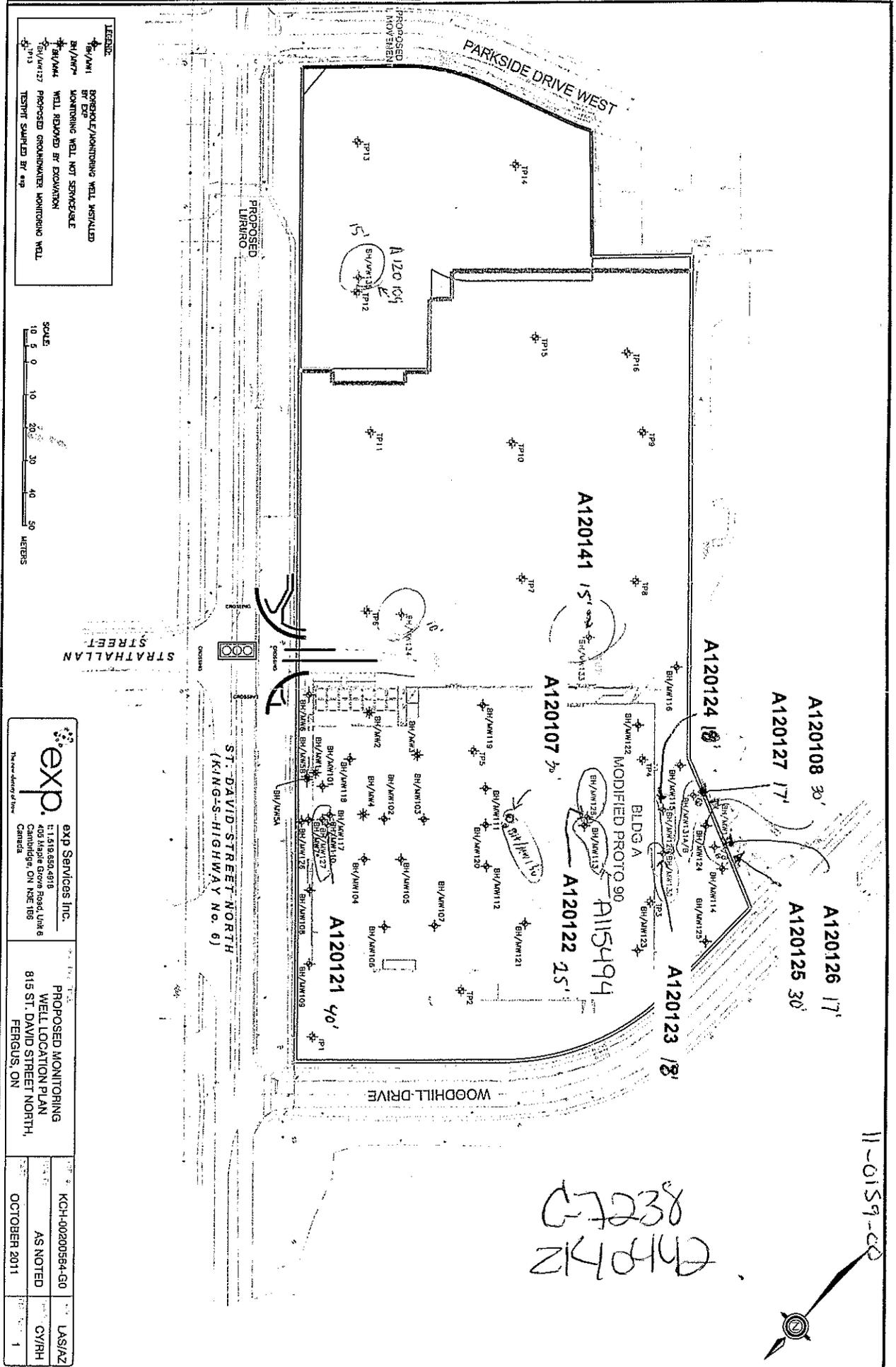
- ◆ BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EXP
- ◆ BH/AM7 MONITORING WELL NOT SERVICEABLE
- ◆ BH/AM4 WELL REMOVED BY EXCAVATION
- ◆ BH/AM12 PROPOSED GROUNDWATER MONITORING WELL
- ◆ TP13 TEST PIT SAMPLED BY EXP



exp.
 exp Services Inc.
 t: 1.519.850.4818
 405 Maple Grove Road, Unit 6
 Cambridge ON N2E 1S5
 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

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 and Well Use checkboxes: Cable Tool, Rotary, Boring, etc.

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 fields

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time, Water Level

Map of Well Location section with instructions

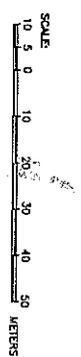
Please see attached map.

Comments field

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only Audit No.

LEGEND

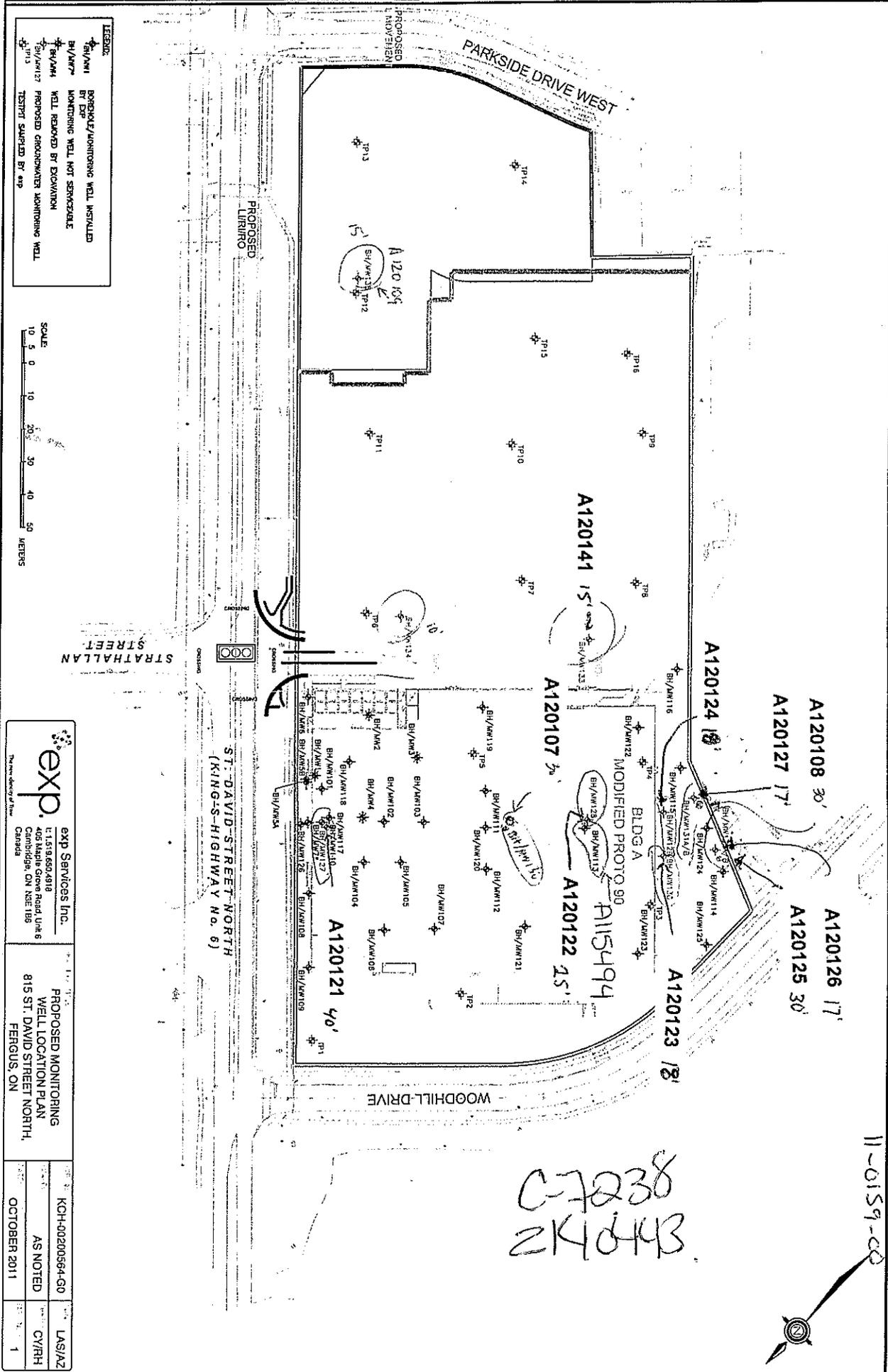
- BH/AM1: PROPOSED/MONITORING WELL INSTALLED
- BH/AM2: EXISTING WELL
- BH/AM3: MONITORING WELL NOT SERVICEABLE
- BH/AM4: WELL REMOVED BY EDCOM/DM
- BH/AM12: PROPOSED GROUNDWATER MONITORING WELL
- TP1-15: TEST PIT SCHEDULED BY exp



exp.
 exp Services Inc.
 1.1519.650.4918
 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
 AS NOTED
 OCTOBER 2011
 LAS/AZ
 CY/RH
 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: _____ Well Constructed by Well Owner

Making Address (Street Number/Name): **Fergus Shopping Centres Ltd.** Municipality: _____ Province: **ON** Postal Code: **L4K5X3** Telephone No. (inc. area code): **4167606200**

Address of Well Location (Street Number/Name): **700 Applewood Crescent, Suite 100** Township: **Vaughan** Lot: _____ Concession: _____

Well Location

Address of Well Location (Street Number/Name): **St. David St. N. + Woodhill Drive** Township: **Niagara** Lot: _____ Concession: _____

County/District/Municipality: **Wellington** City/Town/Village: **Fergus** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone **18** Easting **549113** Northing **4840029** 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	SILT		0'	13'
GRAY	TILL	SILT & SAND		13'	17'
GRAY	SAND	GRAVEL		17'	18'
GRAY	TILL	SILT & SAND		18'	30'

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	24'	BENTONITE CHIPS	

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 **AUGERING**

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"	PLASTIC	SCH 40	0'	25'	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input 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"	PLASTIC	#10	25'	30'

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 _____	Depth (m/ft)		Diameter (cm/in)
		From	To	
		0'	20'	5 1/2"
		20'	30'	3 7/8"

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Ardurk Drilling Inc.** Well Contractor's Licence No.: **7121318**

Business Address (Street Number/Name): **25 Lewis Road - Unit C** Municipality: **Guelph**

Province: **ON** Postal Code: **N1H7E9** Business E-mail Address: _____

Bus. Telephone No. (inc. area code): **5198269340** Name of Well Technician (Last Name, First Name): **England Matt**

Well Technician's Licence No.: **310519** Signature of Technician and/or Contractor: _____ Date Submitted: **2011/10/13**

Map of Well Location

Please provide a map below following instructions on the back.

Please see attached map.

Comments: _____

Ministry Use Only

Audit No.: **Z140445**

Date Package Delivered: **2011/10/25**

Date Work Completed: **2011/10/25**

Well owner's information package delivered: Yes No

Recd: **JAN 19 2012**

LEGEND

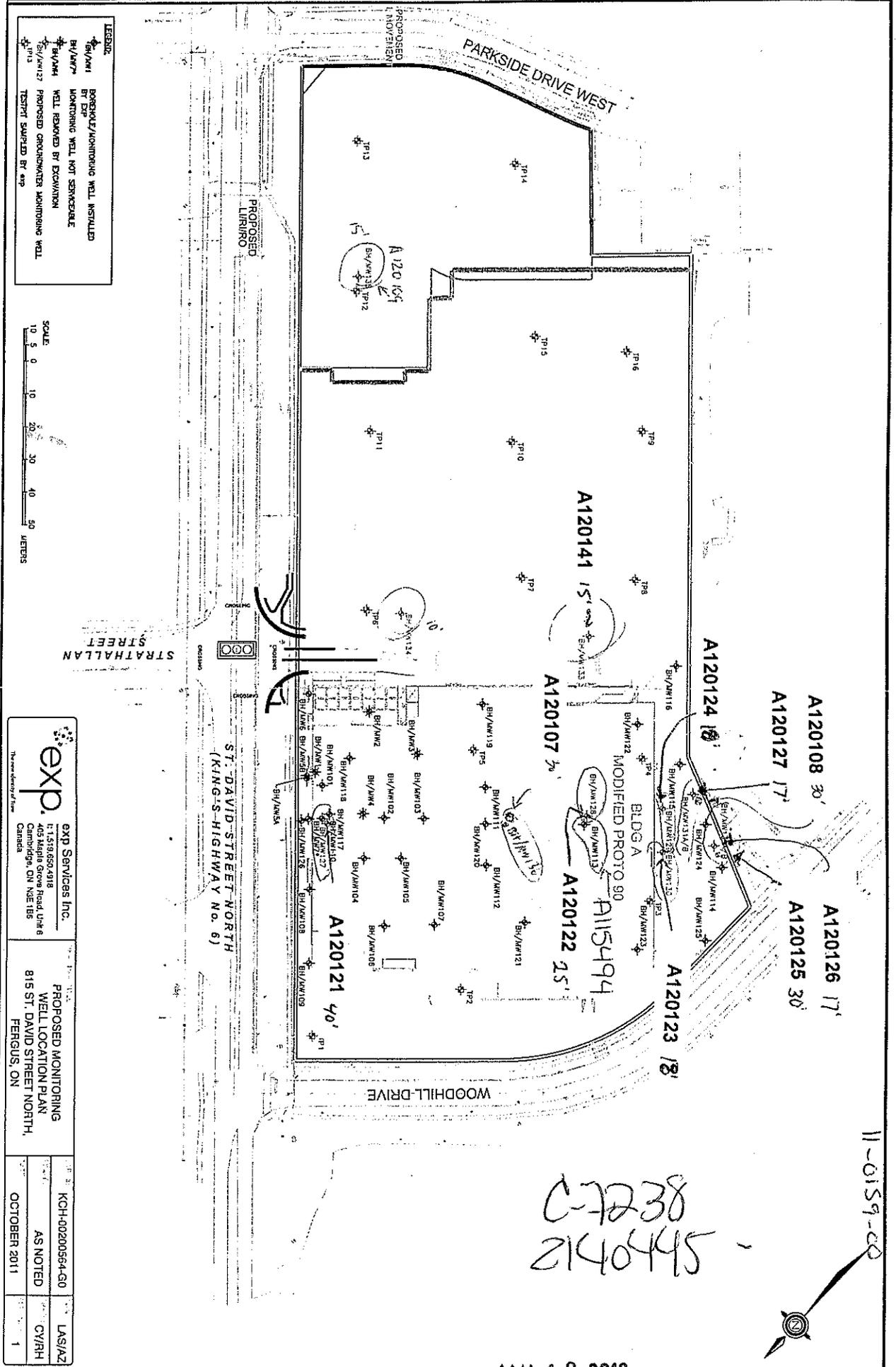
- BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EXP
- BH/AM7 MONITORING WELL NOT SERVICED BY EXP
- BH/AM4 WELL REMOVED BY EXCAVATION
- BH/AM12 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT EQUIPPED BY EXP



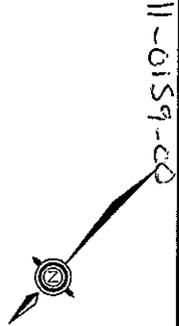
exp Services Inc.
 465 Maple Grove Road, Unit 6
 Cambridge, ON N6E 1R5
 Canada

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



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

A120127

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

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.

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	Depth (m/ft) To
BROWN	SAND	SILT & GRAVEL		0'	13'
GRAY	TILL	SAND & SILT		13'	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'	4'	BENTONITE CHIPS	

Results of Well Yield Testing

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

If pumping discontinued, give reason:
 Static Level: _____

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		

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
- Rotary (Conventional)
- Rotary (Reverse)
- Boring
- Air percussion
- Other, specify **AUGERING**
- Diamond
- Jetting
- Driving
- Digging

Well Use

- Public
- Domestic
- Livestock
- Irrigation
- Industrial
- 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	
2"	PLASTIC	5/40	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 _____

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"	PLASTIC	#10	5'	15'

Map of Well Location

Please provide a map below following instructions on the back.

Please see attached map.

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)
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: **N1H1Z49** 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**

Well owner's information package delivered: Yes No

Date Package Delivered: **2011/12/26**

Date Work Completed: _____

Ministry Use Only

Audit No.: **2140446**

Received: **JAN 19 2012**

LEGEND

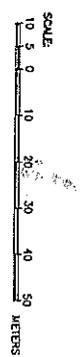
BH/AM1 BOREROLE/MONITORING WELL INSTALLED BY EXP

BH/AM2 MONITORING WELL NOT SERVICED BY EXP

BH/AM4 WELL REMOVED BY EXCAVATION

BH/AM12 PROPOSED GROUNDWATER MONITORING WELL

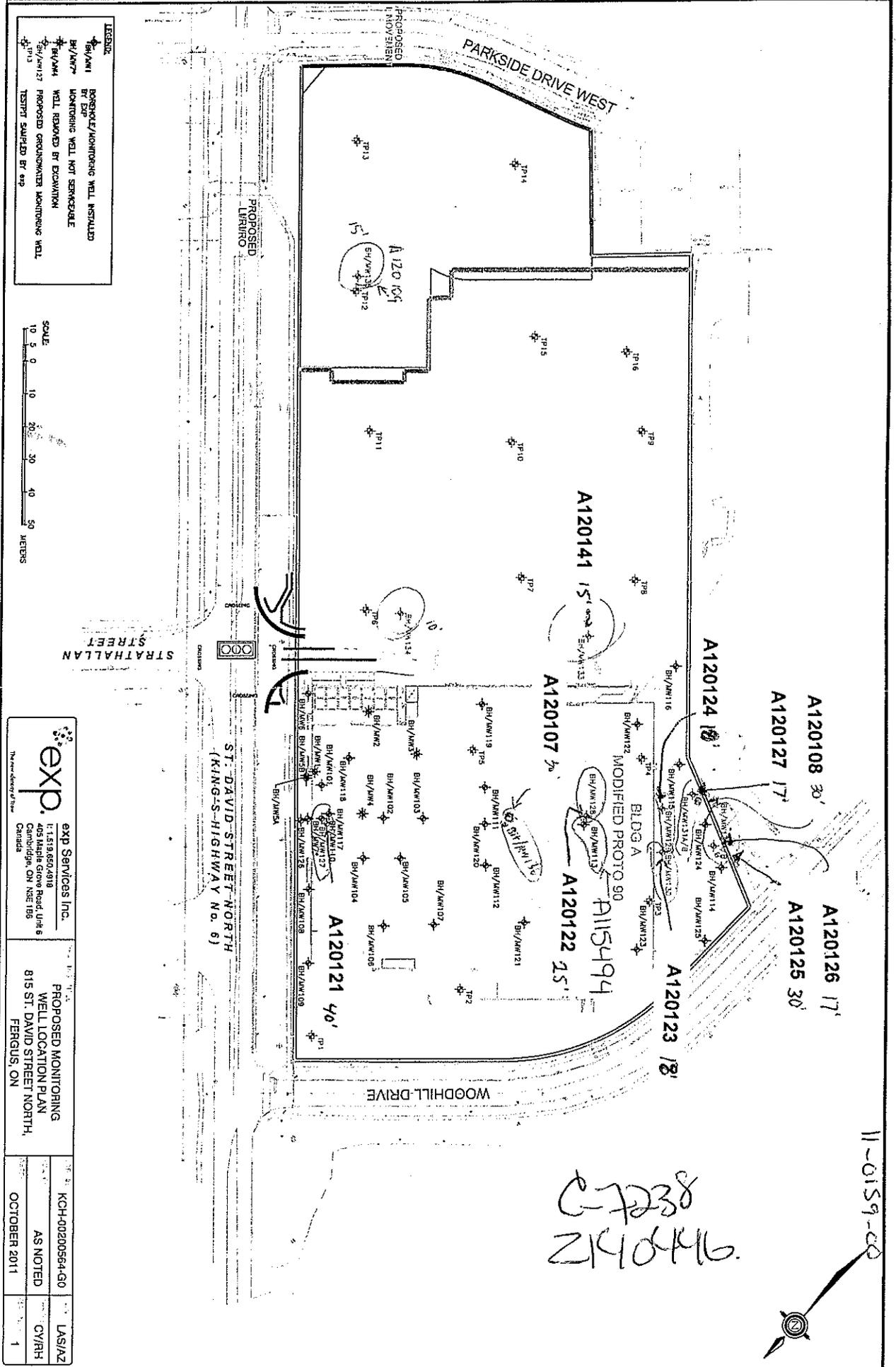
TP13 TEST PIT EXCAVATED BY EXP



exp Services Inc.
 1-1-153-650-4918
 465 Maple Grove Road, Unit 6
 Cambridge, ON N3E 1E6
 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: **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: **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	ben tonite 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 9184** 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

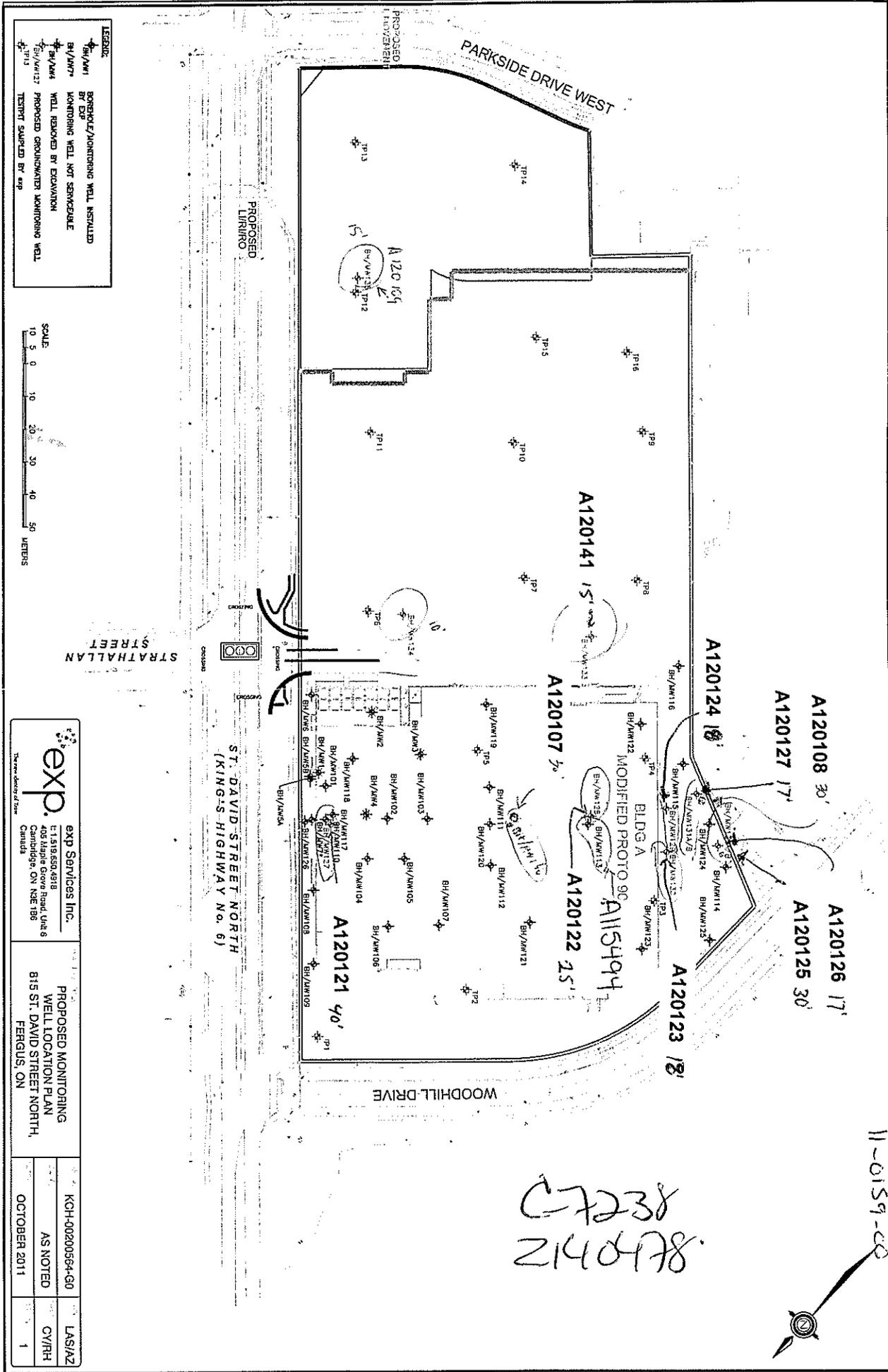
Date Package Delivered: **Y Y Y Y M M D D**
2011/11/03/1

Date Work Completed: **2011/11/03/1**

Ministry Use Only

Audit No.: **2140478**

Received: **JAN 19 2012**



LEGEND

- BH/AW1 BOREHOLE/MONITORING WELL INSTALLED BY EXP
- BH/AW2 MONITORING WELL NOT SERVICEABLE
- BH/AW4 WELL RELOCATED BY EXPANSION
- BH/AW127 PROPOSED GROUNDWATER MONITORING WELL
- TP1-19 TEST PIT SAMPLED BY EXP

SCALE
 10 5 0 10 20 30 40 50 METERS

exp.
 exp Services Inc.
 E-1 519 650 4918
 405 Maple Grove Road, Unit 6
 Cambridge, ON N6E 1R6
 The new face of Town
 Canada

PROPOSED MONITORING
 WELL LOCATION PLAN
 815 ST. DAVID STREET NORTH,
 FERRIS, ON

KCH-00200564-G0	LAS/AZ
AS NOTED	CY/RH
OCTOBER 2011	1

Handwritten: 214078
 27238

Handwritten: 11-0159-02

JAN 19 2012

A120109

Measurements recorded in: Metric Imperial

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): 700 Applewood Crescent, Suite 100 Municipality: Vaughan Province: ON Postal Code: L4K1S3B Telephone No. (inc. area code): 416 760 6200

Well Location

Address of Well Location (Street Number/Name): St. David St. N. + Woodhill Drive Township: Nichol Lot: Concession:

County/District/Municipality: Wellington City/Town/Village: Fergus Province: Ontario Postal Code: [Redacted]

UTM Coordinates: Zone: 83 Easting: 17549303 Northing: 4840611 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	7.5

Annular Space			
Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0	1.2	bentonite chips	
1.2	4.5	sand	

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			
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		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 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: auger		<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	
5.1	plastz	0.65	0	1.5	

Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify _____
			From	To	
6.4	plastz	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	Depth (m/ft) 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	2.1
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: Ardwick Drilling Inc. Well Contractor's Licence No.: 712318

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 9340 Name of Well Technician (Last Name, First Name): Gordon, Micah

Well Technician's Licence No.: 315910 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.

Well owner's information package delivered: Yes No

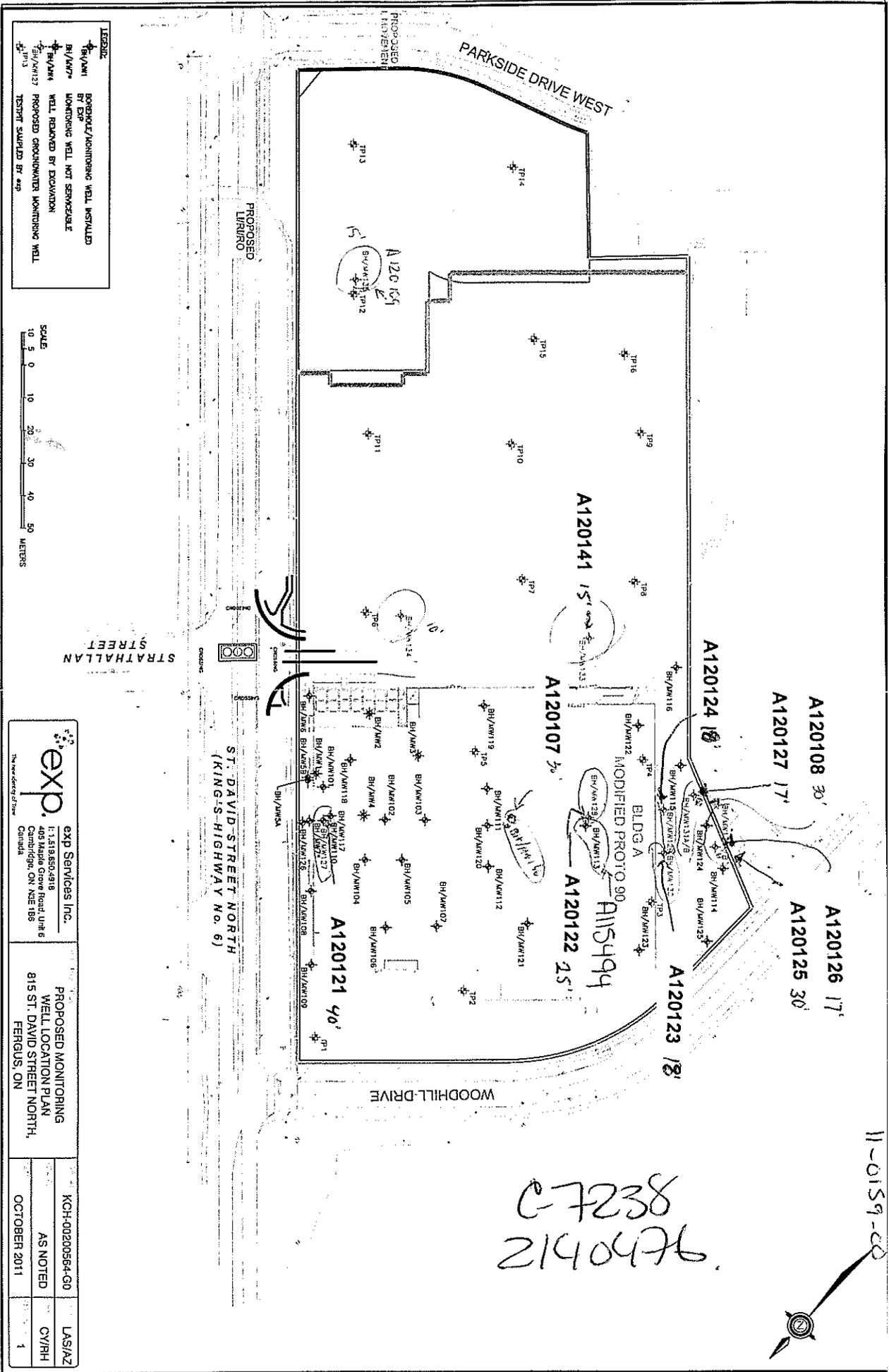
Date Package Delivered: YYY Y M M D D

Date Work Completed: 2011/11/07

Ministry Use Only

Audit No.: Z140476

Received: JAN 19 2012



C-7238
2140476

11-0159-00



Measurements recorded in: Metric Imperial

A 120108

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

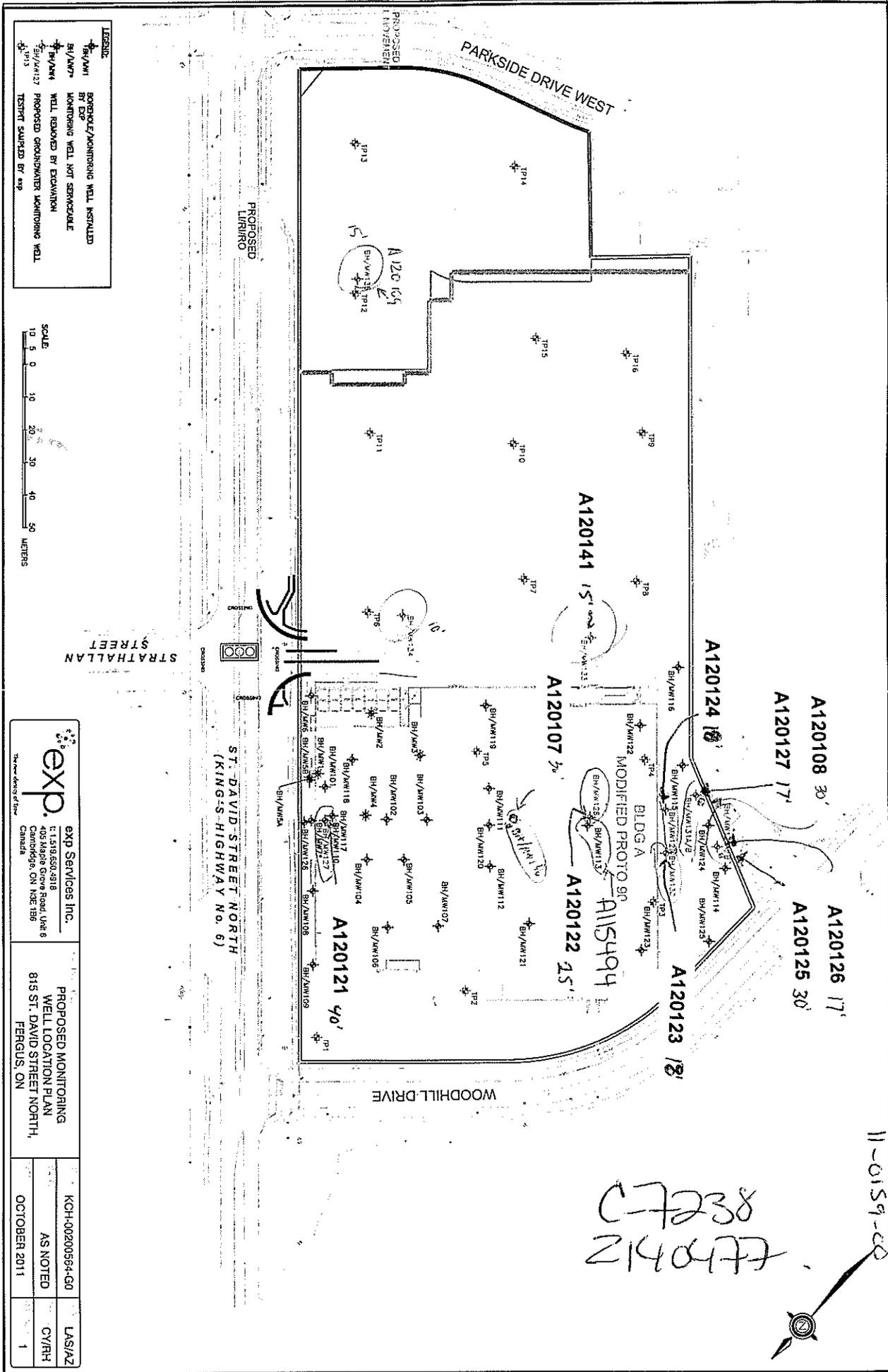
Water Details and Hole Diameter table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From, To, Diameter (cm/in)

Well Contractor and Well Technician Information form

Map of Well Location section with instructions and a handwritten note: 'Please see attached map.'

Well Contractor and Well Technician Information form (continued)

Ministry Use Only section with Audit No. and Date Work Completed



LEGEND

- BH/AW1 BOREHOLE/MONITORING WELL INSTALLED BY EXP
- BH/AW2 MONITORING WELL NOT SERVICABLE
- BH/AW4 WELL REMOVED BY EXCAVATION
- BH/AW127 PROPOSED GROUNDWATER MONITORING WELL
- TP13 TEST PIT SUPPLIED BY EXP



exp. exp Services Inc.
 T. 1.519.850.4918
 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-002000564-G0	LAS/AZ
AS NOTED	CV/RH
OCTOBER 2011	1

Handwritten: 11-0159-00
 214077
 88238
 C-7238

JAN 19 2012

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 **175488034840120** 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
	Grey Clay			18 29
	Grey Fine Sand	Clay Stone		29 31

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		
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:	Hole Diameter
	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	From To
11 (m/ft)		12 1/2 31
		Diameter (cm/in)
		28"

Well Contractor and Well Technician Information

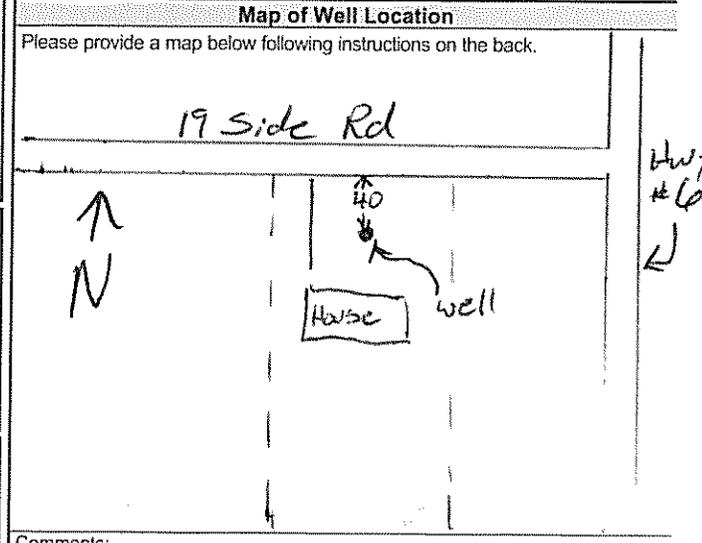
Business Name of Well Contractor **Johnson & Baetz** Well Contractor's Licence No. **7492**

Business Address (Street Number/Name) **52 Church 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 Doray**

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 ³ /ft ³)
From	To	
6	30 Filter Sand	
	Unknown	

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 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 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)		<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"	1	12 1/2	
24"	Galvanized	1 1/2"	6	30	

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

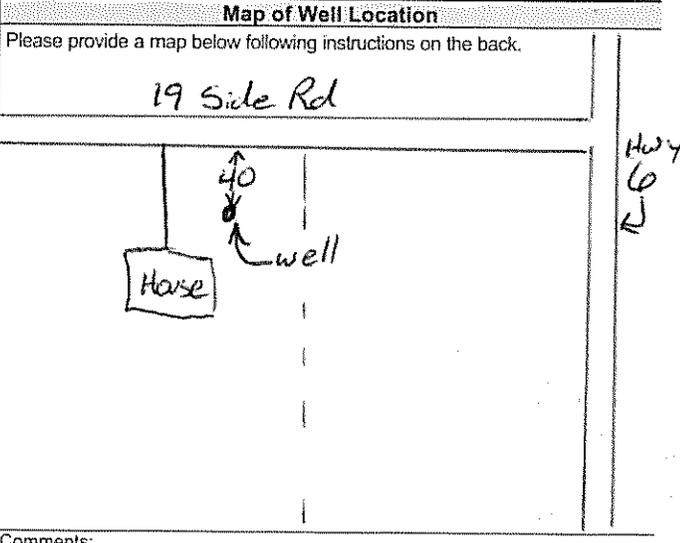
Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
11	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	12 1/2	30
			28"

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): 25'				
Pumping rate (l/min / GPM): 5 Gpm				
Duration of pumping: 1 hrs + 00 min				
Final water level end of pumping (m/ft): 13'4"				
If flowing give rate (l/min / GPM)	15	12'6"	15	11'3"
	20		20	
	25		25	
	30	12'11"	30	10'9"
	40		40	
	50		50	
Recommended pump depth (m/ft): 24'				
Recommended pump rate (l/min / GPM): 5 Gpm Int				
Well production (l/min / GPM): 3 Gpm				
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
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: Y Y Y Y M M D D	Ministry Use Only Audit No. z 154217 Received DEC 19 2012
Date Work Completed: Y Y Y Y M M D D		

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 ³ /ft ³)
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 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): 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):

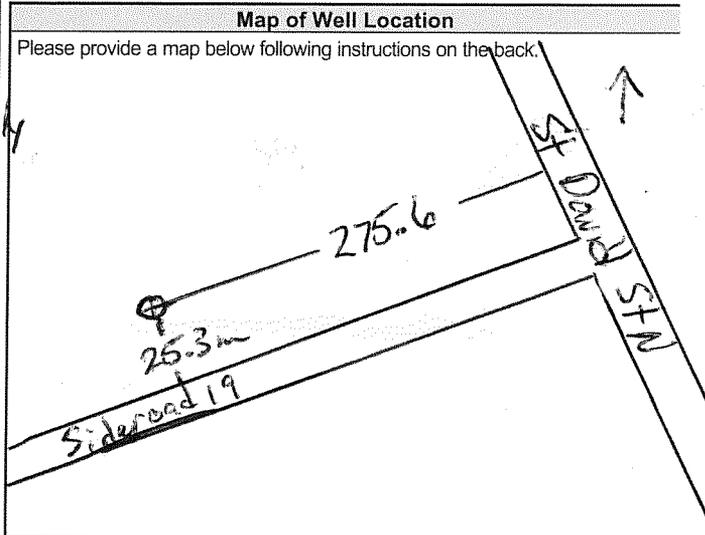
Recommended pump depth (m/ft):

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				
2				
3				
4				
5				
10				
15				
20				
25				
30				
40				
50				
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 17 Easting 548553 Northing 4839911 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 (m ³)
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)
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

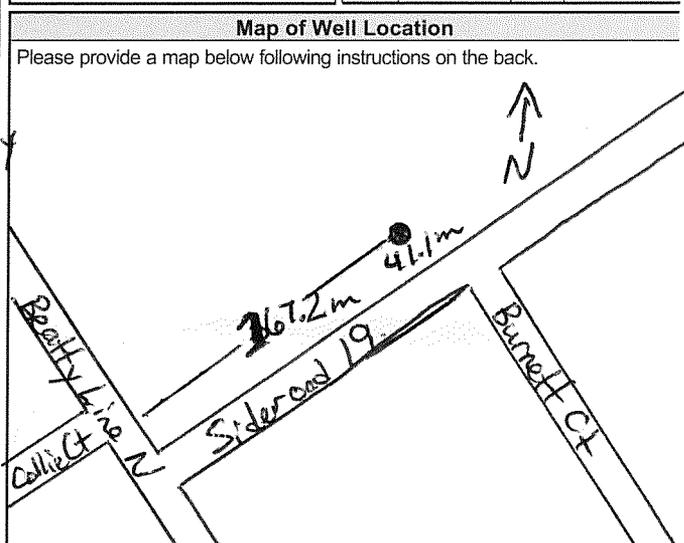
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details

Water found at Depth (m/ft)	Kind of Water:	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 _____		

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



Business 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 [Signature] Date Submitted 2012/12/12

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 ³)
3.35 2.85	Bentonite	0.33
2.65 0	clay-silt	0.46
		1.67

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	4		4	
hrs + min	5		5	
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	
Disinfected?	50		50	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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

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

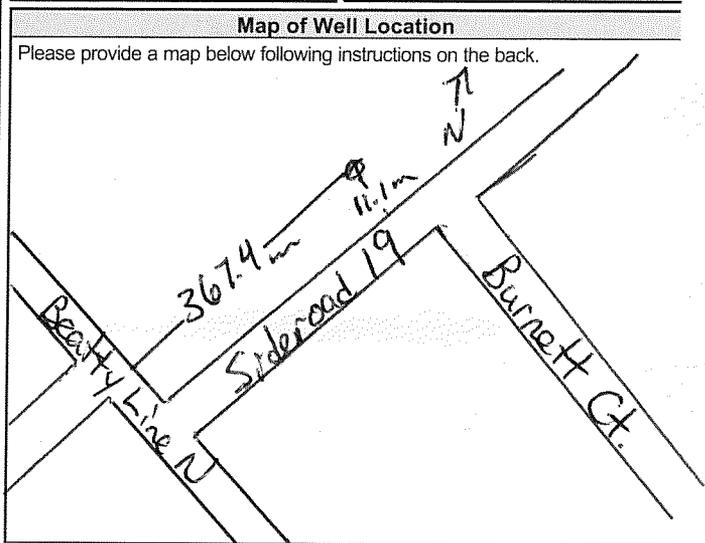
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	

Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	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 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 JAMES KEATING	Last Name / Organization CONSTRUCTION LTD	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 70 MATHIESON ST	Municipality WELLINGTON	Province ON	Postal Code N0B1S0
		Telephone No. (inc. area code) 519 846 9704	

Well Location

Address of Well Location (Street Number/Name) BEATTY LINE N & MILLAGE LN	Township MIDDLETON	Lot	Concession
County/District/Municipality WELLINGTON	City/Town/Village FERRIS	Province Ontario	Postal Code
UTM Coordinates NAD 83 17548648 4839425	Zone Easting 17548648	Northings 4839425	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 ³ /ft ³)	
From	To		
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: 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 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 _____	

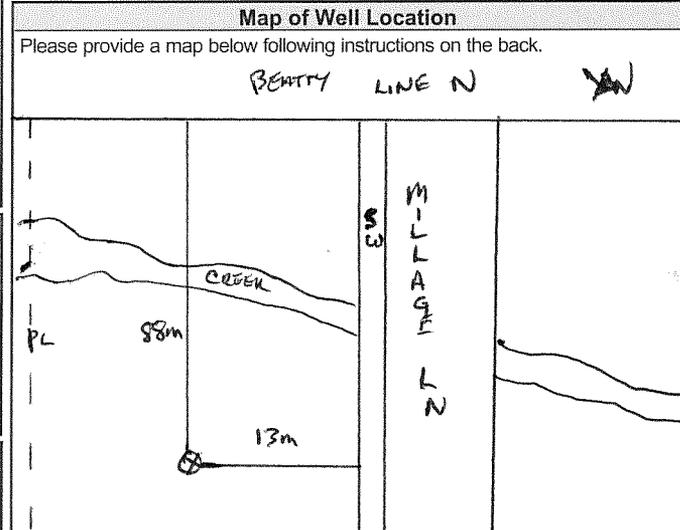
Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To
2.54	PLASTIC		0	1.5

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
3.3	PLASTIC	10	1.5	4.2

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 4.2	10
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 KEATING & CO. ENG. INC.	Well Contractor's Licence No. 7366		
Business Address (Street Number/Name) 1011 INDUSTRIAL CRES	Municipality WATERLOO		
Province ON	Postal Code N0B1M0	Business E-mail Address CAN@GORDEN.NET	
Bus. Telephone No. (inc. area code) 519 699 5775	Name of Well Technician (Last Name, First Name) DAVIES, BUD		
Well Technician's Licence No. 3458	Signature of Technician and/or Contractor	Date Submitted 2013 04 29	



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 2013 04 29	Ministry Use Only Audit No. Z 161337 Received MAY 03 2013
	Date Work Completed 2013 04 29	



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, Digging, Public, Commercial, Domestic, Livestock, Irrigation, Industrial, 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. Row includes: 2.54 PLASTIC, 0-2.1.

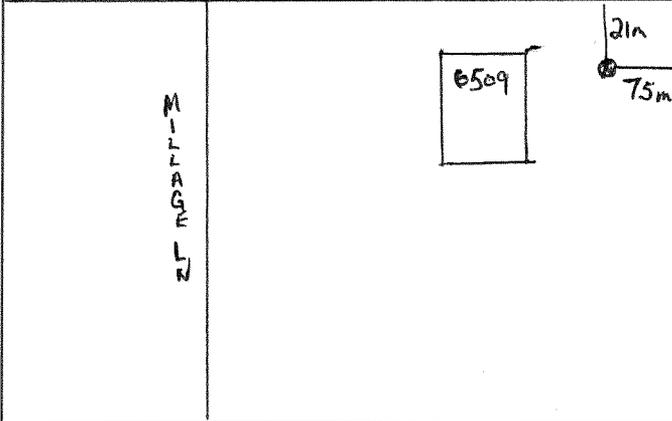
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To, Status of Well. Row includes: 3.3 PLASTIC, 21-3.9.

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, 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, Date Work Completed, 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

Measurements recorded in: Metric Imperial

Page of

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, etc.

Construction Record - Casing and Status of Well tables

Construction Record - Screen table

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information form

Map of Well Location diagram showing Spa and ESSO locations relative to Highway 6, with a distance of 250' and 80' indicated. Includes Ministry Use Only section with Audit No. Z168936 and date DEC 18 2013.



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: FERGUS, 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, Digging. Well Use: Commercial, Municipal, Test Hole, Cooling & Air Conditioning.

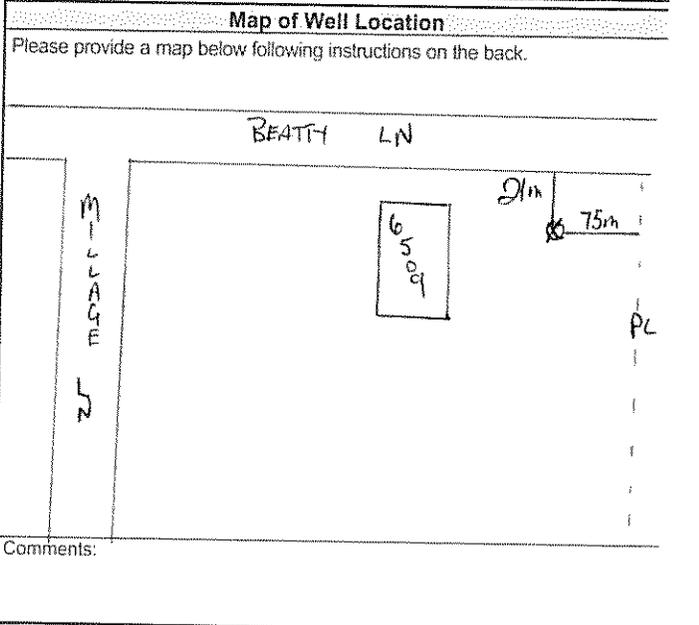
Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft). Status of Well: Abandoned, other, specify CONSTRUCTION.

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth (m/ft). Status of Well: Abandoned, other, specify CONSTRUCTION.

Water Details: Water found at Depth (m/ft), Kind of Water (Fresh, Untested, Gas). Hole Diameter: Depth (m/ft), Diameter (cm/in).

Well Contractor and Well Technician Information: Business Name of Well Contractor: CMT ENG INC, Well Contractor's Licence No. 7366, Business Address: 1011 INDUSTRIAL CRTS, Municipality: WATERLOO.

Name of Well Technician (Last Name, First Name): DAVIES, BUD, Signature of Technician and/or Contractor, Date Submitted: 20140602.



Ministry Use Only: Audit No. Z186496, Date Work Completed: 20140529, Received: JUN 09 2014.

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 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	
					<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: Fresh Untested
 Gas Other, specify _____

Water found at Depth (m/ft): _____ Kind of Water: Fresh Untested
 Gas Other, specify _____

Water found at Depth (m/ft): _____ Kind of Water: Fresh Untested
 Gas Other, specify _____

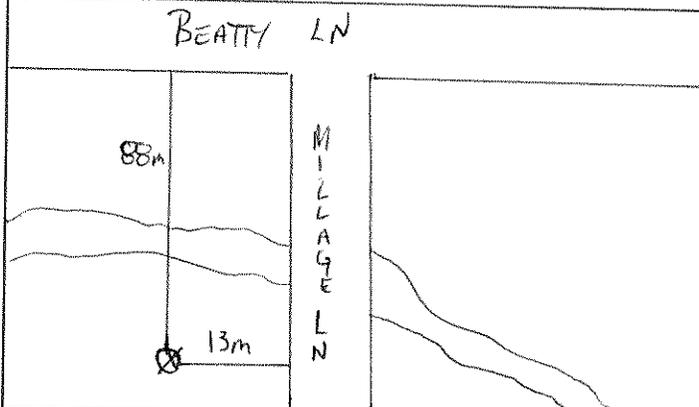
Well Contractor and Well Technician Information

Business Name of Well Contractor: 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): 519 699 5775
 Name of Well Technician (Last Name, First Name): DAVIES BLO
 Well Technician's Licence No.: 3458
 Signature of Technician and/or Contractor: _____
 Date Submitted: 2014/06/02

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: 2014/05/29

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 KINGMA	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) SIDE RD 10	Municipality fergus	Province ONT	Postal Code 0054
Telephone No. (inc. area code)			

Well Location

Address of Well Location (Street Number/Name)	Township NICHOL	Lot 15	Concession 15
County/District/Municipality WELLINGTON	City/Town/Village	Province Ontario	Postal Code
UTM Coordinates Zone 17 Easting 548758 Northing 4840116	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
BLK				
	PLUG *6in well			

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 <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	Well Use <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)		<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: 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		

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 KEITH LANG WELL DRILLING INC	Well Contractor's Licence No. 7154
Business Address (Street Number/Name) 251 ELDON ST GODERICH	Municipality
Province ONT	Postal Code N7A2R9
Business E-mail Address	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name) KEITH LANG
Well Technician's Licence No. T445	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted Y Y Y Y M M D D

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 Date Work Completed 2015 4 10 D D	Ministry Use Only Audit No Z 198021 Received MAY 21 2015
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No Tag

Address of Well Location (Street Number/Name): 69 Sideroad 19
 County/District/Municipality: Wellington
 Township: Cen Wellington (Nichol)
 City/Town/Village: Fergus
 Province: Ontario
 Postal Code: N1M2W4
 UTM Coordinates: Zone Easting Northing: NAD 83 175487154840045
 Municipality 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 ³)
0	8	native fill	
8	11'9"	bentonite chips	26.49

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	
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			

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				<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 <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 <input type="checkbox"/> Other, specify

Water Details

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

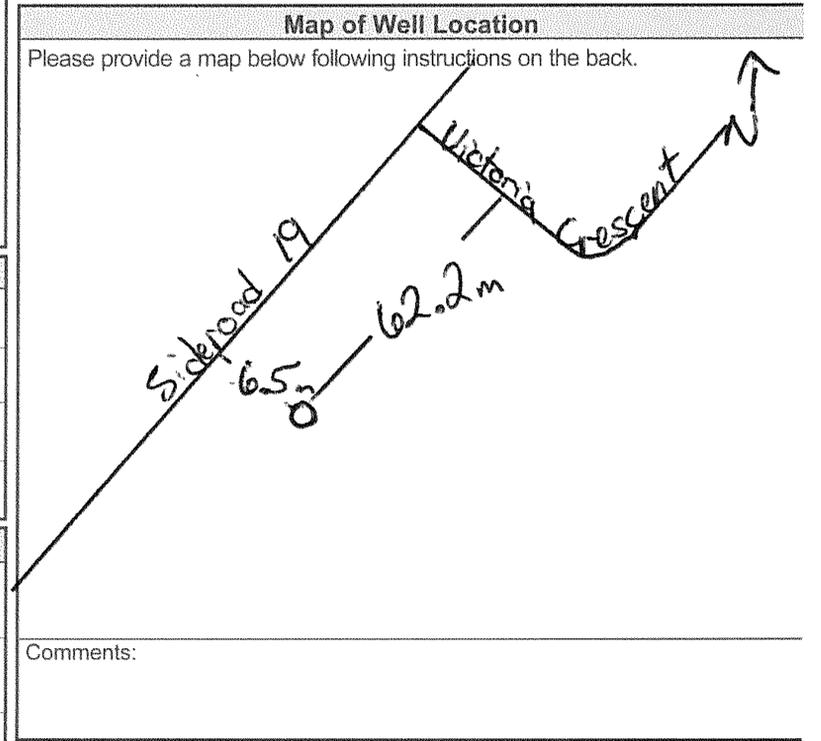
Hole Diameter

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: Well Initiatives Limited
 Well Contractor's Licence No.: 72211
 Business Address (Street Number/Name): 15 Townline Orangeville
 Municipality:
 Province: ON Postal Code: L9W3R4 Business E-mail Address: info@wellinitiatives.com

Business Telephone No. (inc. area code): 5198468289
 Name of Well Technician (Last Name, First Name): Weed, Patrick
 Well Technician's Licence No.: 3800
 Signature of Technician and/or Contractor: [Signature]
 Date Submitted: 20150602



Well owner's information package delivered: Yes No

Date Package Delivered: YYY|YY|MM|DD
 Date Work Completed: 20150526

Ministry Use Only

Audit No: Z 211482
 JUN 23 2015
 Received



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 Municipal Plan and Sublot Number Other

NAD 83 **175492304840184**

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 ³ /ft ³)
0 - 1	Concrete	
1 - 4	Bentonite	
4 - 15	Silica 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			
	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	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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	.125	0	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
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@strata-soil.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **Hellyer, 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: Yes No

Date Package Delivered: **20160616**

Date Work Completed: **20160616**

Ministry Use Only

Audit No: **2210010**

Revised: **04-2010**



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 **175492484840144** 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 ³ /ft ³)
0 - 1	Concrete	
1 - 4	Bentonite	
4 - 15	Silica 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 _____	Static Level			
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	
	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?	50		50	
<input type="checkbox"/> Yes <input type="checkbox"/> No	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 - 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**

Measurements recorded in: Metric Imperial

Well Owner's Information

Well Owner: [Redacted] or **(Carquest Auto Parts)** E-mail Address: [Redacted] Well Constructed by Well Owner

Mailing Address (Street Number/Name): **4 Erinville Drive** Municipality: **Erin** Province: **Ont**

Well Location

Address of Well Location (Street Number/Name): **75 Sideroad 18** Township: **Center Wellington** Lot: [Redacted] Concession: [Redacted]

County/District/Municipality: **Center Wellington** City/Town/Village: **Fergus** Province: **Ontario** Postal Code: [Redacted]

UTM Coordinates: Zone **Easting** **West** Northing: **NAD 83 0810235704342500** 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	Depth (m/ft) 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) From	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
	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)		<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. <input type="checkbox"/> Other, specify
			From	To	
36"	concrete	3"	0	13	

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: **S.D. Smith Drilling Co. Ltd.** Well Contractor's Licence No.: **4868**

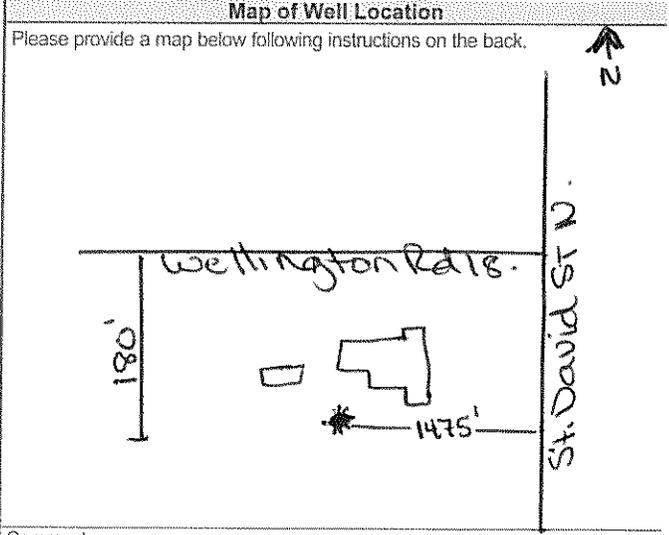
Business Address (Street Number/Name): **P.O. Box 787** Municipality: **ERIN**

Province: **Ont** Postal Code: **N0B 1T0** Business E-mail Address: [Redacted]

Bus. Telephone No. (inc. area code): **519 853 3717** Name of Well Technician (Last Name, First Name): **Smith, Simon**

Well Technician's Licence No.: **T346** Signature of Technician and/or Contractor: [Signature] Date Submitted: **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				
5		5		
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: Yes No

Date Package Delivered: **20160609**

Date Work Completed: **20160603**

Ministry Use Only

Audit No: **2216893**

Received: **AUG 10 2016**



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, 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.'

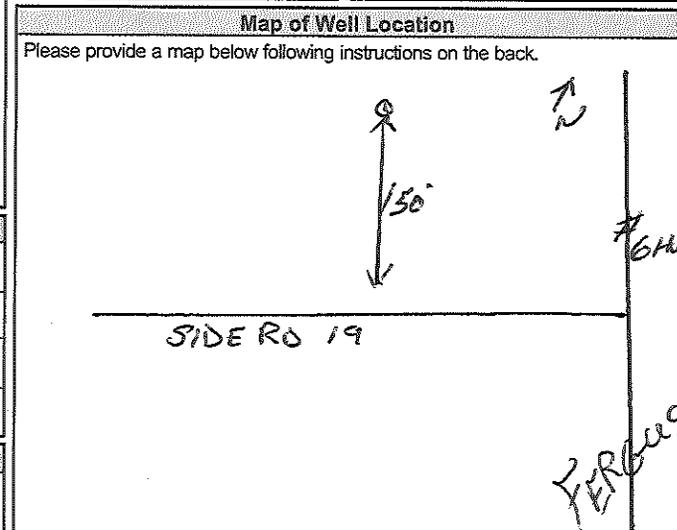
Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³)

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: Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Domestic, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring, Irrigation, Industrial, Other.

Construction Record - Casing and Status of Well table. Includes columns for Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, and checkboxes for Water Supply, Replacement Well, etc.

Construction Record - Screen table. Includes columns for Outside Diameter, Material, Slot No., Depth, and checkboxes for Abandoned, insufficient Supply, etc.



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 form. Includes Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address.

Well Technician's Licence No., Name of Well Technician, 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., 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
		ABANDONMENT RECORD			
			5" DRILLED	0	320
			WASHED GRAVEL	320	300
			BENTONITE	300	5
			CASING CUT & BACK FILLED	5	0

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 NOT USED <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 NOT USED <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

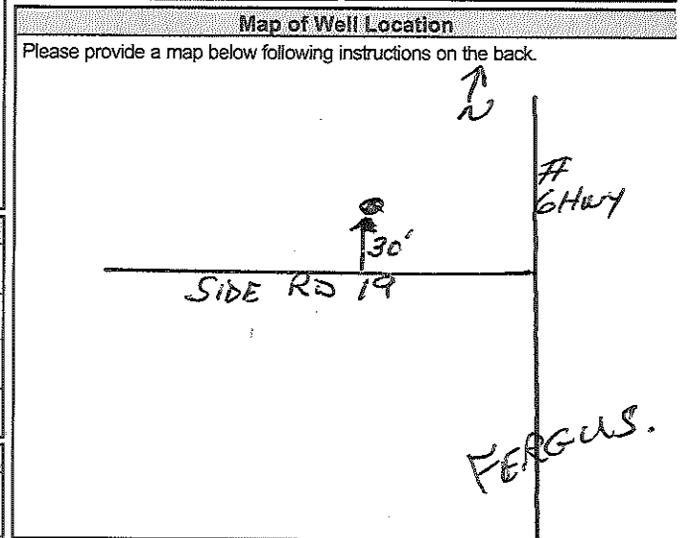
Business Name of Well Contractor: **TIM WILSON WELL DRILLING LTD** Well Contractor's Licence No.: **7385**

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 (M1M 2W3), 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).

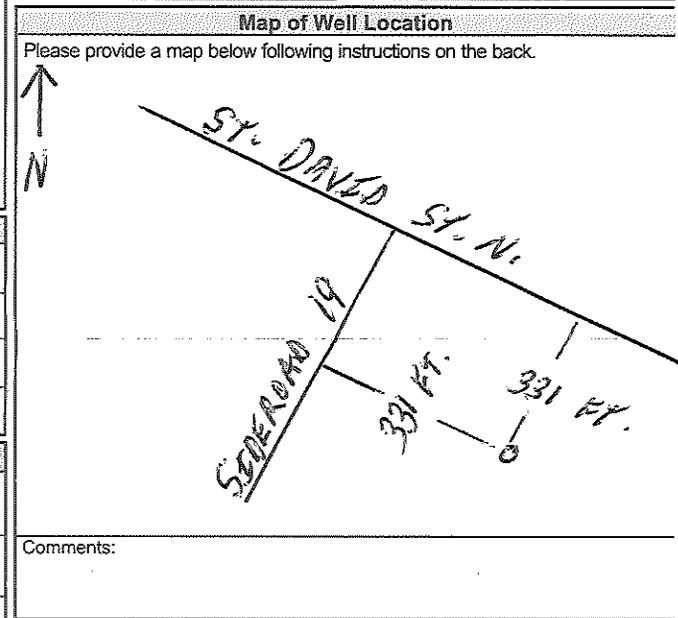
Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³).

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 data.

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

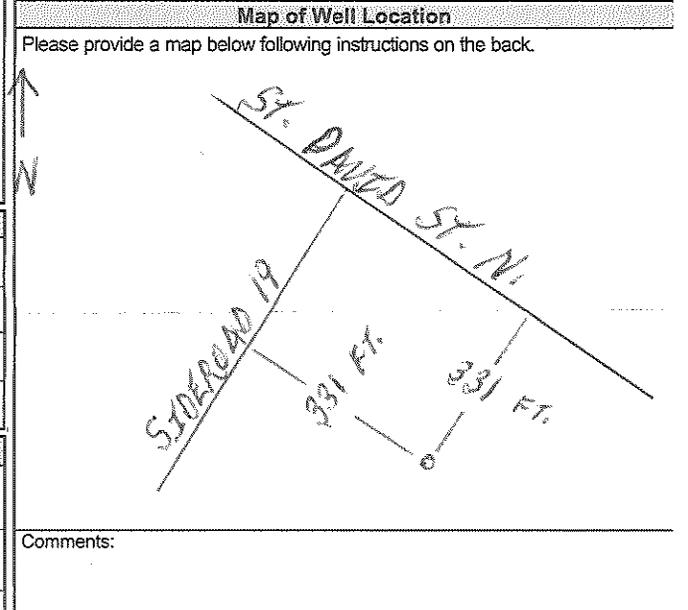
Construction Record - Casing table with columns: inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To, Status of Well

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?



Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only: Audit No., Received

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 8410119	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 ³ /ft ³)
From	To	
0	84	Bentonite slurry
		7.45ft ³

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)	
			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.	
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 20171227
Date Work Completed 20171227	
Ministry Use Only Audit No. 2252834 Received 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 Easting Northing NAD 83 175489204840116 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 To
Extend well - head of 30"
galvanized dug well -1 +2
well depth 15"

Annular Space
Depth Set at (m/ft) From 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:
 Clear and sand free
 Other, specify
If pumping discontinued, give reason:
Static Level 8
Draw Down: Time (min) Water Level (m/ft) Recovery: 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
Recommended pump depth (m/ft)
Recommended pump rate (l/min / GPM)
Well production (l/min / GPM)
Disinfected? Yes No

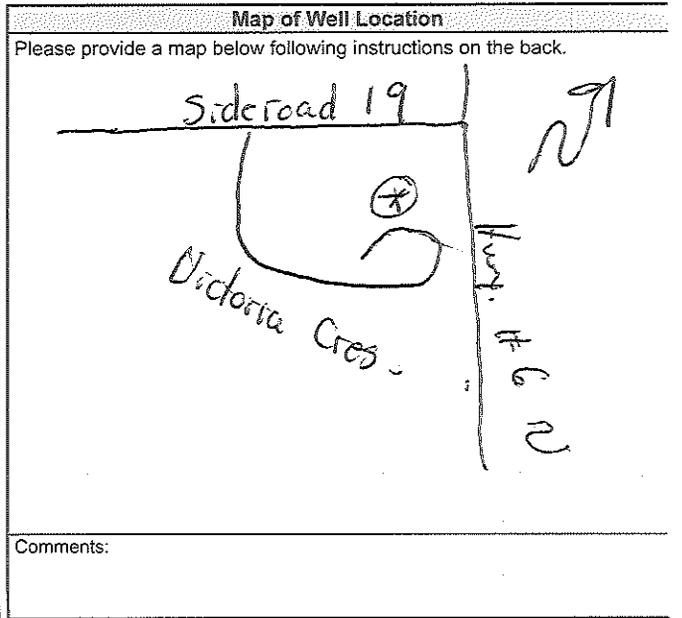
Method of Construction Well Use
 Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial
 Other, specify

Construction Record - Casing 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
30" Galvanized -1 15
36 cement 3" -1 +2
 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

Water Details Hole Diameter
Water found at Depth (m/ft) Kind of Water: Fresh Untested Gas Other, specify
Depth (m/ft) From To 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:
Bus. Telephone No. (inc. area code): 5198469162 Name of Well Technician (Last Name, First Name): Martin Mike
Well Technician's Licence No.: 34310 Signature of Technician and/or Contractor: [Signature] Date Submitted: 20180319

Well owner's information package delivered: Yes No
Date Package Delivered: 20180319
Date Work Completed:
Ministry Use Only
Audit No.: Z252817
MAY 11 2018
Received:

Measurements recorded in: Metric Imperial

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 ³

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
14 13	sand	7.05ft ³
13 12	bentonite chips	7.05ft ³
12 7	sand	35.35ft ³
7 5	bentonite chips	14.10ft ³

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	
				<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)		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): _____

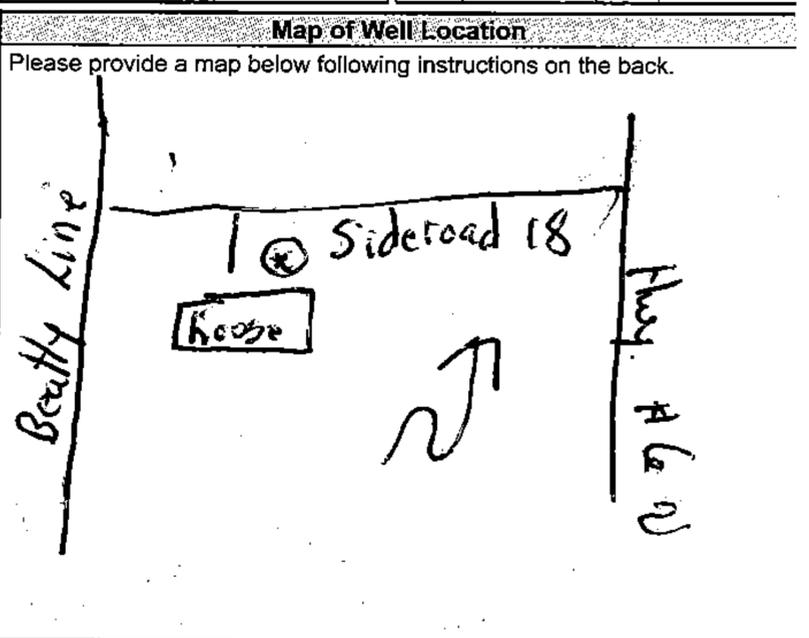
If flowing give rate (l/min / GPM): _____

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) 112 Side Rd 19, Township, Lot, Concession, Wellington County, Fergus, Ontario, UTM Coordinates Zone Easting 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 (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

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: LONDON SOIL TEST LTD., 712078 Southgate Sdrd. 71, Dundalk, ON N0C 1B0

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 Information: WATTS MIKE, Signature, Date Submitted 20190306

Ministry Use Only: Audit No. Z305972, Received APR 01 2019, Date Package Delivered, Date Work Completed

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 (see instructions on the back of this form)
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 (Time, Water Level), Recovery (Time, Water Level)

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, 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

Address of Well Location	112 SIDE RD 19
Township	NICHOL TOWNSHIP
Lot	019
Concession	CON 15
County/District/Municipality	WELLINGTON
City/Town/Village	FERGUS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 548464.00 Northing: 4839857.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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.

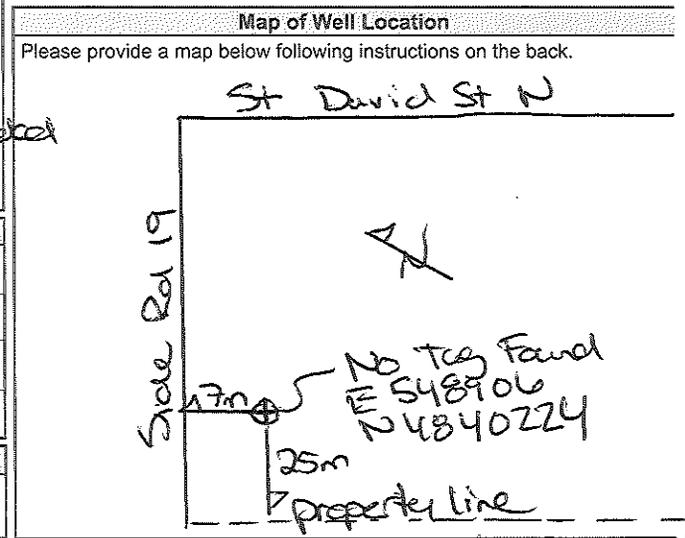
Method of Construction and Well Use checkboxes. Method of Construction includes Cable Tool, Rotary, Boring, etc. Well Use includes Public, Commercial, Municipal, etc.

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.

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.

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)													

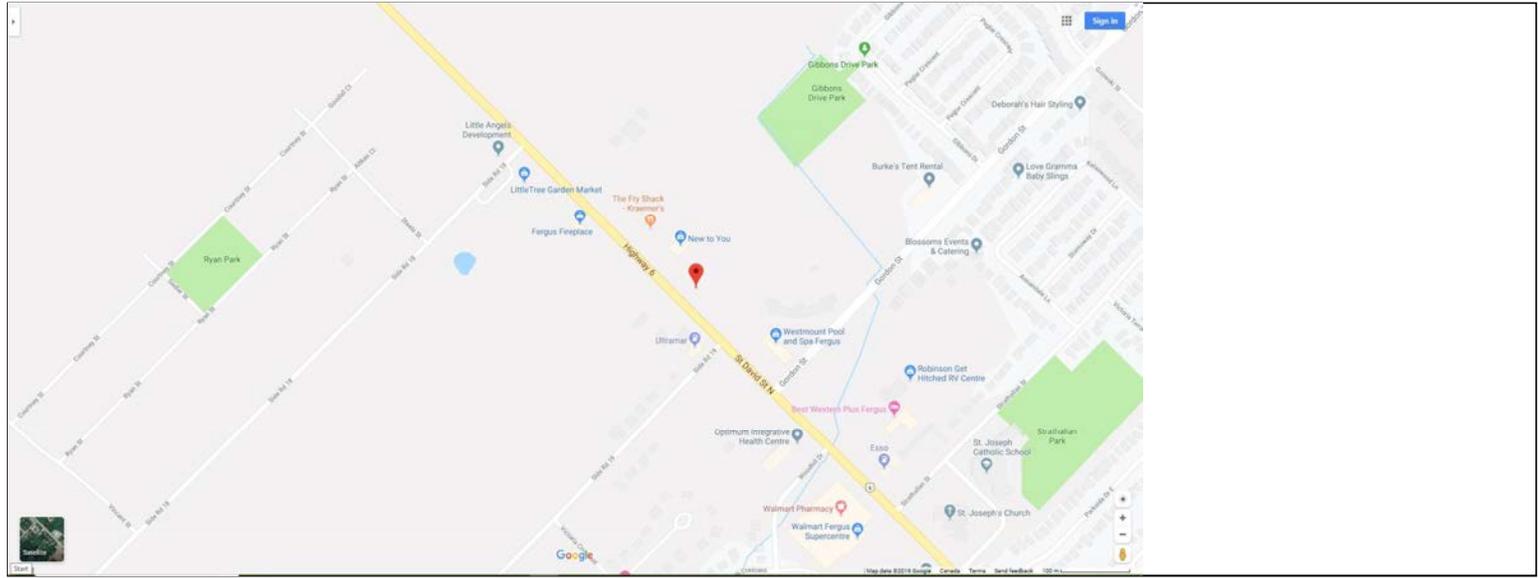
After test of well yield, water was
 Clear and sand free Other (specify)

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

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.

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)

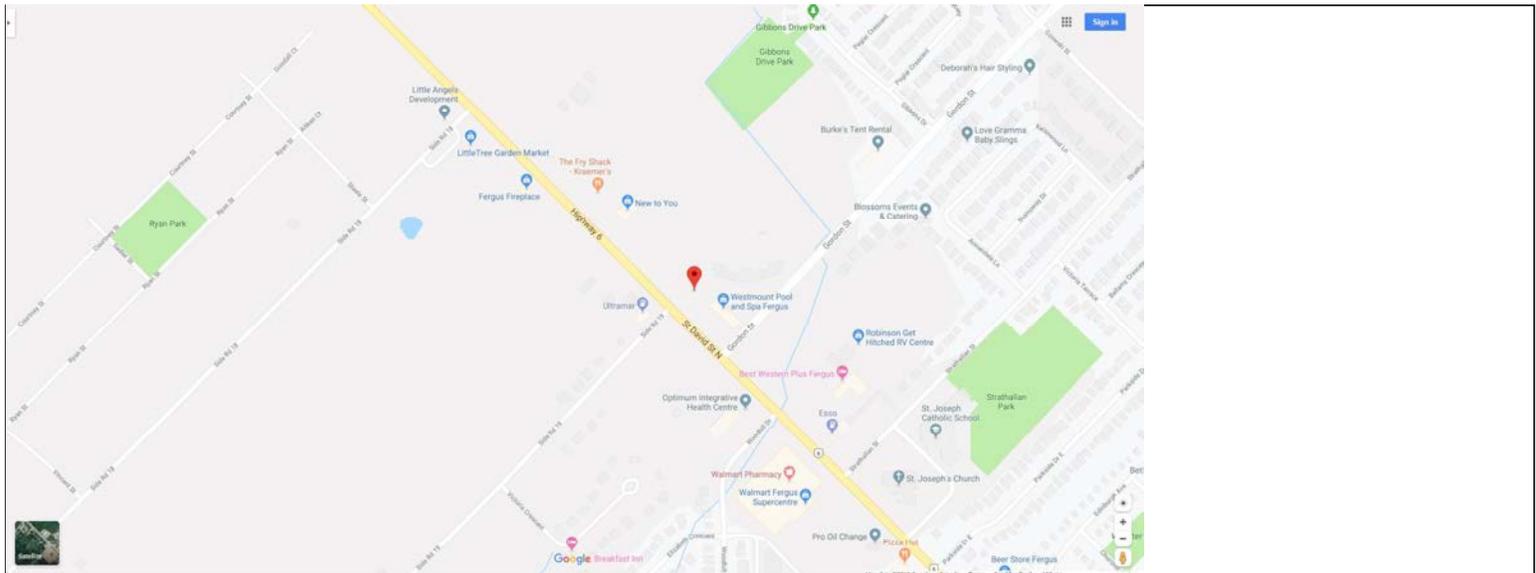
Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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 * Geo-Environmental Drilling Inc.	Well Contractor's License Number * 6607
---	--

Business Address

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 BLUHM	First Name MATT	Email Address romana@geo-environmentaldrilling.com
Signature Matt Bluhm	Digitally signed by Matt Bluhm Date: 2019.10.04 10:04:19 -04'00'	Date Submitted (yyyy/mm/dd) 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.

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)

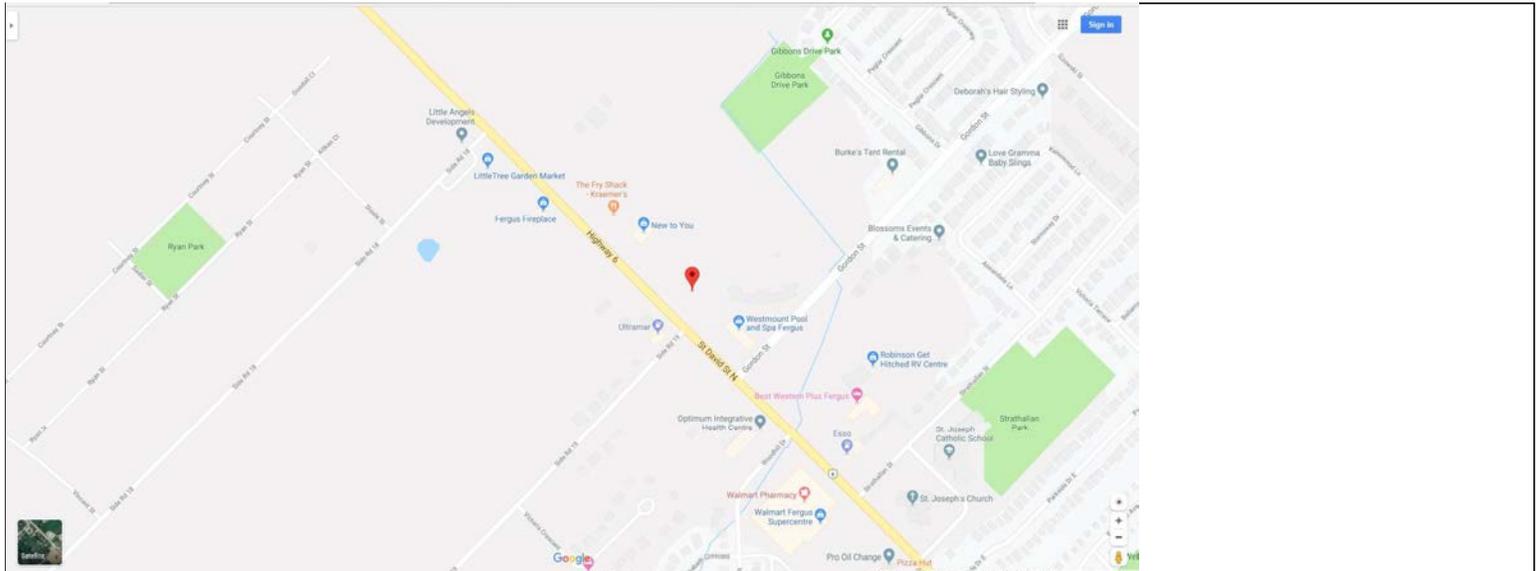
Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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	
Business Address			
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 ³ /ft ³)
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

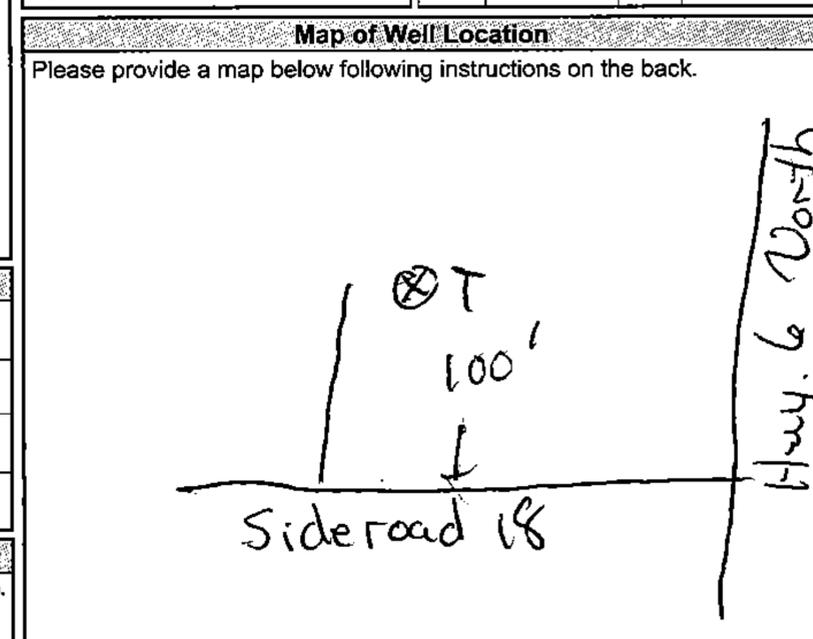
Business Name of Well Contractor: **Martin Well Drilling Inc.** Well Contractor's Licence No.: **751517**

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 YYYYMMDD 20190827	Ministry Use Only Audit No. 2319766 Received NOV 04 2019
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Measurements recorded in: Metric Imperial

Address of Well Location (Street Number/Name) <u>70 Sideroad 18</u>		Township <u>Centre Wellington</u>	Lot <u>18</u>	Concession <u>15</u>
County/District/Municipality <u>Wellington</u>		City/Town/Village <u>Fergus</u>	Province <u>Ontario</u>	Postal Code <u>N1M 3E6</u>
UTM Coordinates Zone <u>NAD 83</u>	Easting <u>175218403</u>	Northing <u>48410370</u>	Municipal Plan and Sublot Number	Other <u>263</u>

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 ³ /ft ³)
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 _____

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 type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
	N/A			

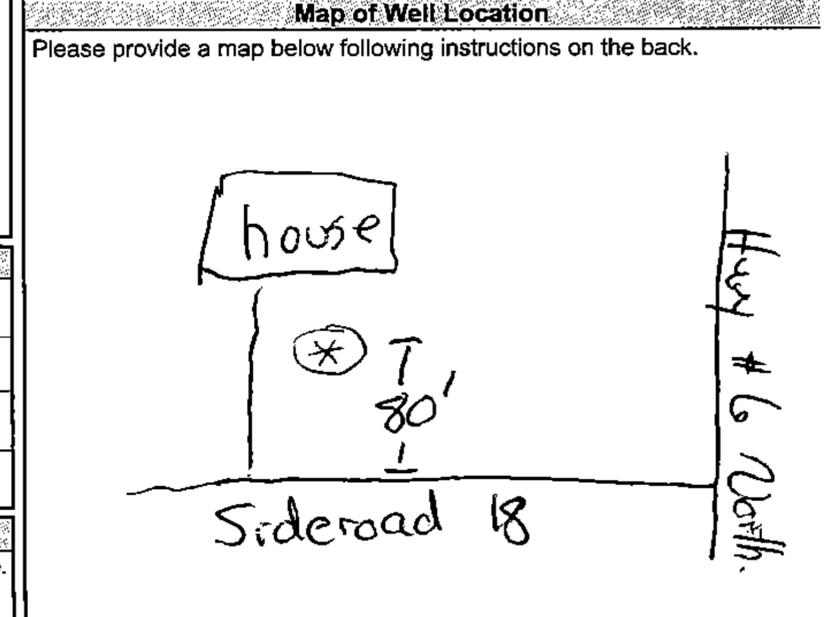
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To

Water Details		Hole Diameter	
Water found at Depth (m/ft)	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 <u>Martin Well Drilling Inc</u>	Well Contractor's Licence No. <u>7 5 5 7</u>
Business Address (Street Number/Name) <u>Box 60 Alma</u>	Municipality <u>Wellington</u>
Province <u>Ontario</u>	Postal Code <u>N0B 1R0</u>
Business E-mail Address	

Bus. Telephone No. (inc. area code) <u>519 846 9162</u>	Name of Well Technician (Last Name, First Name) <u>Martin Mike</u>
Well Technician's Licence No. <u>3 4 3 0</u>	Signature of Technician and/or Contractor <u>Mike Martin</u>
	Date Submitted <u>2019 08 22</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:	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. <u>2319765</u> Received <u>NOV 04 2019</u>
	Date Work Completed <u>2019 08 27</u>	

Address of Well Location (Street Number/Name) 64 SIDE RD #18		Township CANTON WELLSBORO	Lot 18	Concession 15
County/District/Municipality WELLSBORO		City/Town/Village FERGUS	Province Ontario	Postal Code N1M2W3
UTM Coordinates Zone Easting NAD 83 17548385	Northing 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	To	Type of Sealant Used (Material and Type)
0	20	BENTONITE
		SAND

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	42		77.5
	1	47.7	1	70
Pump intake set at (m/ft)	2	50.1	2	60.5
Pumping rate (l/min / GPM)	3	51.3	3	61
Duration of pumping	4	52.4	4	57.8
Final water level end of pumping (m/ft)	5	53.4	5	55.5
If flowing give rate (l/min / GPM)	10	55.9	10	50.3
	15	57.2	15	48.8
	20	58	20	
Recommended pump depth (m/ft)	25	62.4	25	47
Recommended pump rate (l/min / GPM)	30	66	30	45
Well production (l/min / GPM)	40	73.9	40	42
Disinfected?	50	76.2	50	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	60	77.5	60	

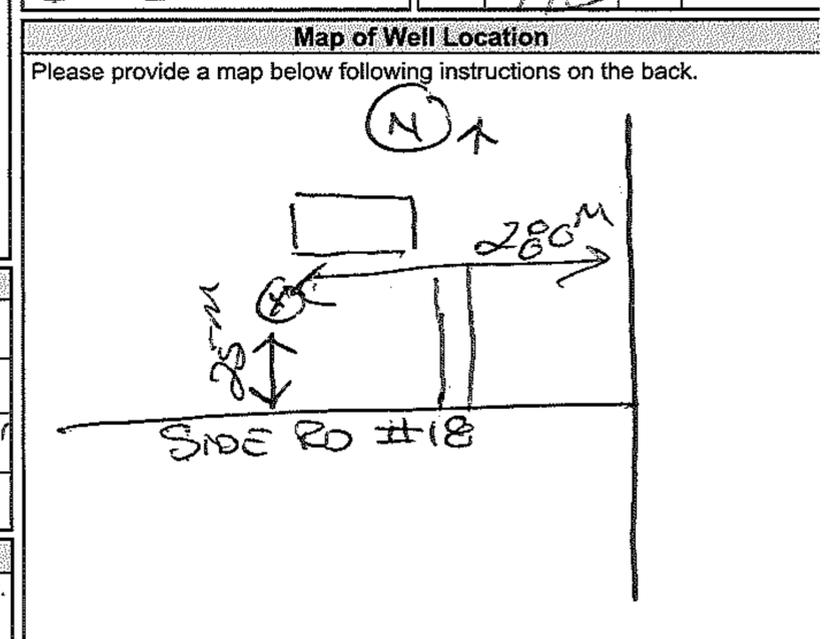
Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" 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 checked="" type="checkbox"/> Other, specify Direct Drilling				

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 1/8	STEEL	0.219	+2	96	
6	OPEN HOLE		96	165	

Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify _____
			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) From	Diameter (cm/in) To
165	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	20 10"
		20	96 6 5/8"
		96	165 6"

Well Contractor and Well Technician Information	
Business Name of Well Contractor HANNON WELL DRILLING + PUMPING	Well Contractor's Licence No. 75516
Business Address (Street Number/Name) 25896 WELLSBORO RD 7	Municipality WELLSBORO
Province ON	Postal Code N1M6V2
Business E-mail Address info@hannonwelldrilling.com	



Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2019/07/06	Ministry Use Only Audit No. Z291585 DEC 24 2019 Received
Date Work Completed 2019/07/06		
Bus. Telephone No. (inc. area code) 519-763-2339	Name of Well Technician (Last Name, First Name) HANNON LEWIS	
Well Technician's Licence No. 051910	Signature of Technician and/or Contractor <i>[Signature]</i>	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

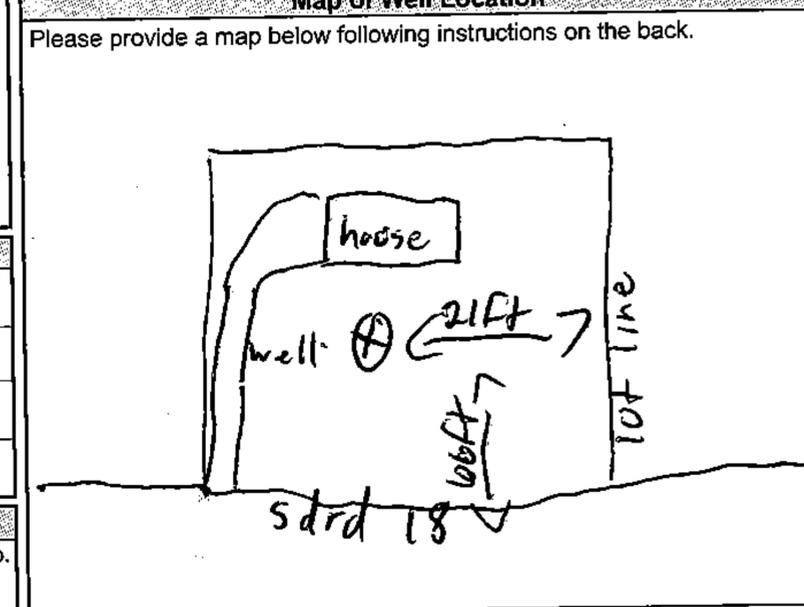
Construction Record - Screen
Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To; Status of Well

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:

Ministry Use Only
Audit No.
Date Package Delivered
Date Work Completed
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 175488624840015 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: Martin Mike 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 Y Y Y Y M M D D	Ministry Use Only Audit No. <u>2319822</u> SEP 16 2020 Received
	Date Work Completed Y Y Y Y M M D D	
	<u>20200508</u>	

Address of Well Location (Street Number/Name) 920 ST DAVID ST N		Township NICHOL	Lot 19	Concession 16
County/District/Municipality WELLINGTON		City/Town/Village FERGUS	Province Ontario	Postal Code N1M2W3
UTM Coordinates Zone NAD 83	Easting 17549046	Northing 4840355	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 6" x 230' DEEP DRILLED WELL						
					WASHED STONE	0 3'
					BENTONITE	3' 26'
					WASHED STONE	26' 95'
					BENTONITE	95' 102'
					WASHED STONE	102' 223'
					BENTONITE	223' 230'

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 _____		

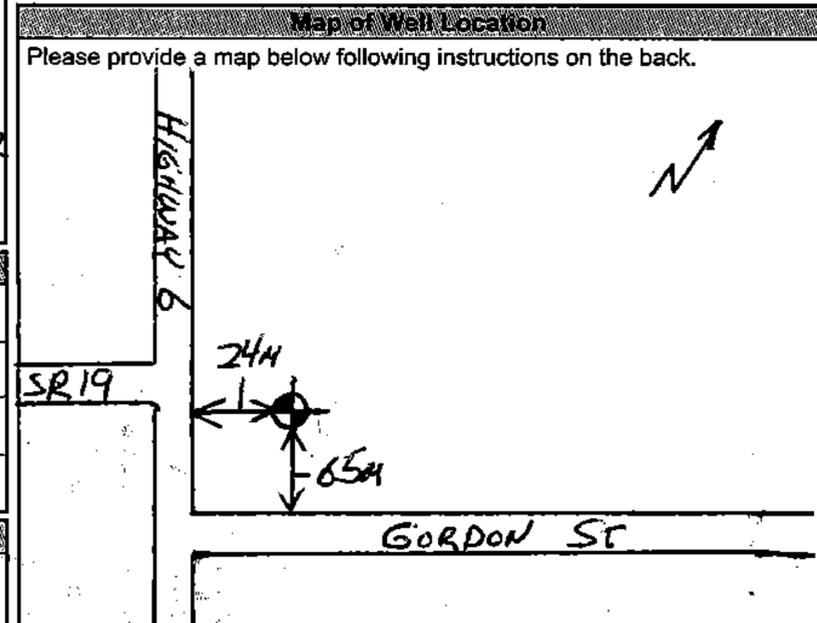
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
					<input type="checkbox"/> Water Supply
					<input type="checkbox"/> Replacement Well
					<input type="checkbox"/> 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 TOWN WATER
					<input type="checkbox"/> Other, specify _____

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	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 TOWN WATER
					<input type="checkbox"/> Other, specify _____

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 THE MEADOWBANK DRILLING COMPANY		Well Contractor's Licence No. 6865	
Business Address (Street Number/Name) RR 5		Municipality MT FOREST	
Province ON	Postal Code N0G2L0	Business E-mail Address	
Bus. Telephone No. (inc. area code) 519 323 3548		Name of Well Technician (Last Name, First Name) HUGH BROADFOOT	
Well Technician's Licence No. 1897		Signature of Technician and/or Contractor <i>[Signature]</i>	
		Date Submitted 20200731	

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	
	2		2	
Pump intake set at (m/ft)	3		3	
Pumping rate (l/min / GPM)	4		4	
Duration of pumping hrs + min	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	



Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered 20200730	Ministry Use Only Audit No. 2298696 Received SEP 22 2020 SEP 27 2020
Date Work Completed 20200729		

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

Address of Well Location	66 SR 18
Township	NICHOL TOWNSHIP
Lot	018
Concession	CON 15
County/District/Municipality	WELLINGTON
City/Town/Village	FERGUS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 548419.00 Northing: 4840393.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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) 2 Burnett Court		Township Centre Wellington	Lot	Concession
County/District/Municipality Wellington		City/Town/Village Fergus	Province Ontario	Postal Code N1M2W3
UTM Coordinates Zone NAD 83	Easting 17548566	Northing 4839879	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 ³ /ft ³)
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 _____

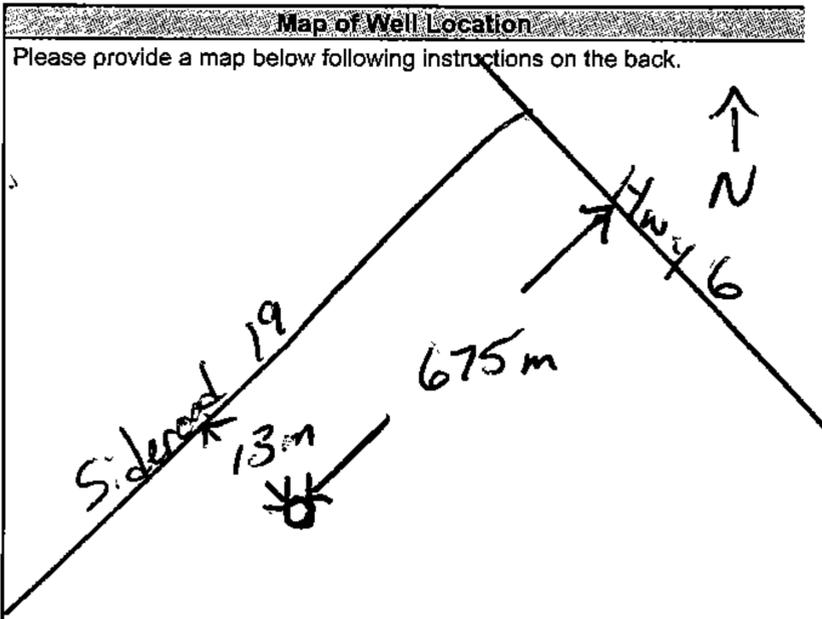
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input 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 Municipal <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 Well Initiatives Limited	Well Contractor's Licence No. 7221
Business Address (Street Number/Name) 15 Townline Oranville	Municipality
Province ON	Postal Code L9W3R4
Business E-mail Address info@wellinitiatives.com	Name of Well Technician (Last Name, First Name) Weed, Patrick
Bus. Telephone No. (inc. area code) 5198468289	Well Technician's Licence No. 3800
Signature of Technician and/or Contractor Patrick Weed	Date Submitted 20200918

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	Ministry Use Only Audit No. Z346351 SEP 24 2020 Received
	Date Work Completed 20200915	

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.

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
			Test UTM in Map

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

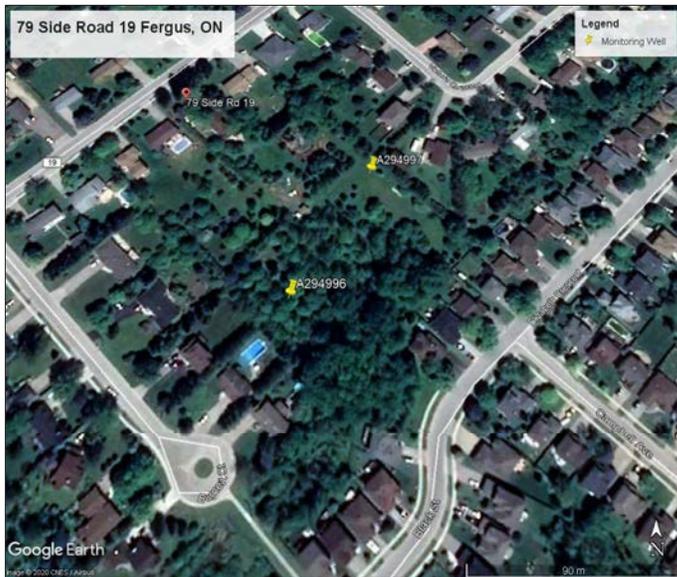
Clear and sand free Other (specify)

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 * CMT DRILLING INC		Well Contractor's License Number * 7366	
Business Address			
Unit Number 1	Street Number 1011	Street Name * INDUSTRIAL CRES	
City/Town/Village * ST CLEMENTS		Province ON	Postal Code * NOB 2M0
Business Telephone Number 519-699-5775	Business Email Address info@cmtinc.net		
Last Name of Well Technician * BLACK	First Name of Well Technician * CHRIS	Well Technician's License Number * 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 BLACK	First Name CHRIS	Email Address cblack@cmtinc.net
Signature Chris Black		Date Submitted (yyyy/mm/dd) 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

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.

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
			Test UTM in Map

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	
Business Address			
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

Address of Well Location	
Township	FERGUS TOWN
Lot	
Concession	
County/District/Municipality	WELLINGTON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 549252.00 Northing: 4840167.00
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

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

Address of Well Location (Street Number/Name): **19 Burnett Crt**
 Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: **Wellington** City/Town/Village: **Fergus** Province: **Ontario** Postal Code: **N1M2W3**
 UTM Coordinates: Zone: **18** Easting: **548684** Northing: **4839882** 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 Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial
 Other, specify _____ Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
15.2	steel	0.48	0.20	+0.56	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
12.7	steel	-	-	0.20	

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	Depth (m/ft) From	Depth (m/ft) To	Hole Diameter (cm/in)
	<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 _____			

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@wellinitiatives.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: <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	
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	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**

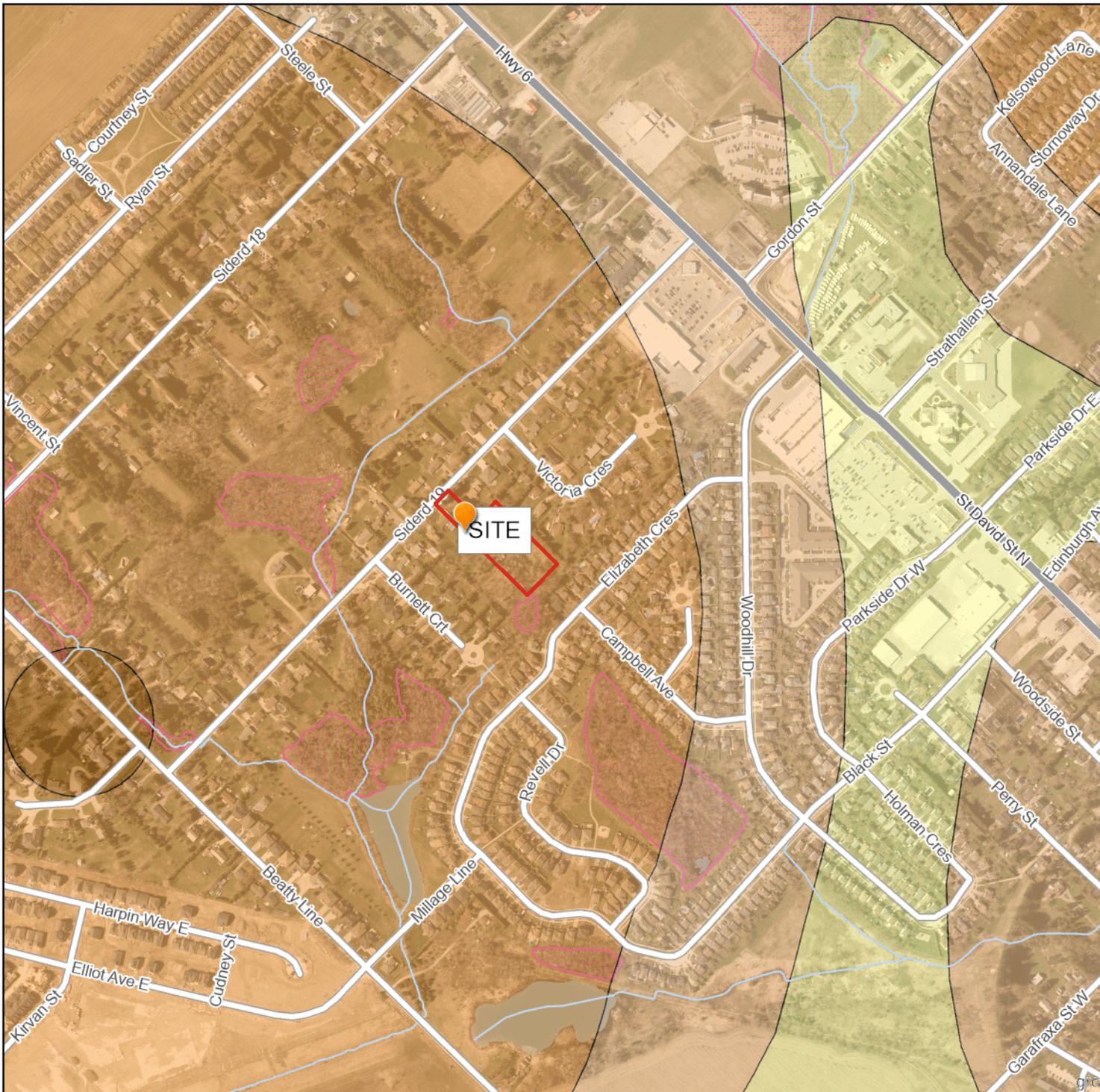
Appendix D Source Protection Vulnerable Area Mapping



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.

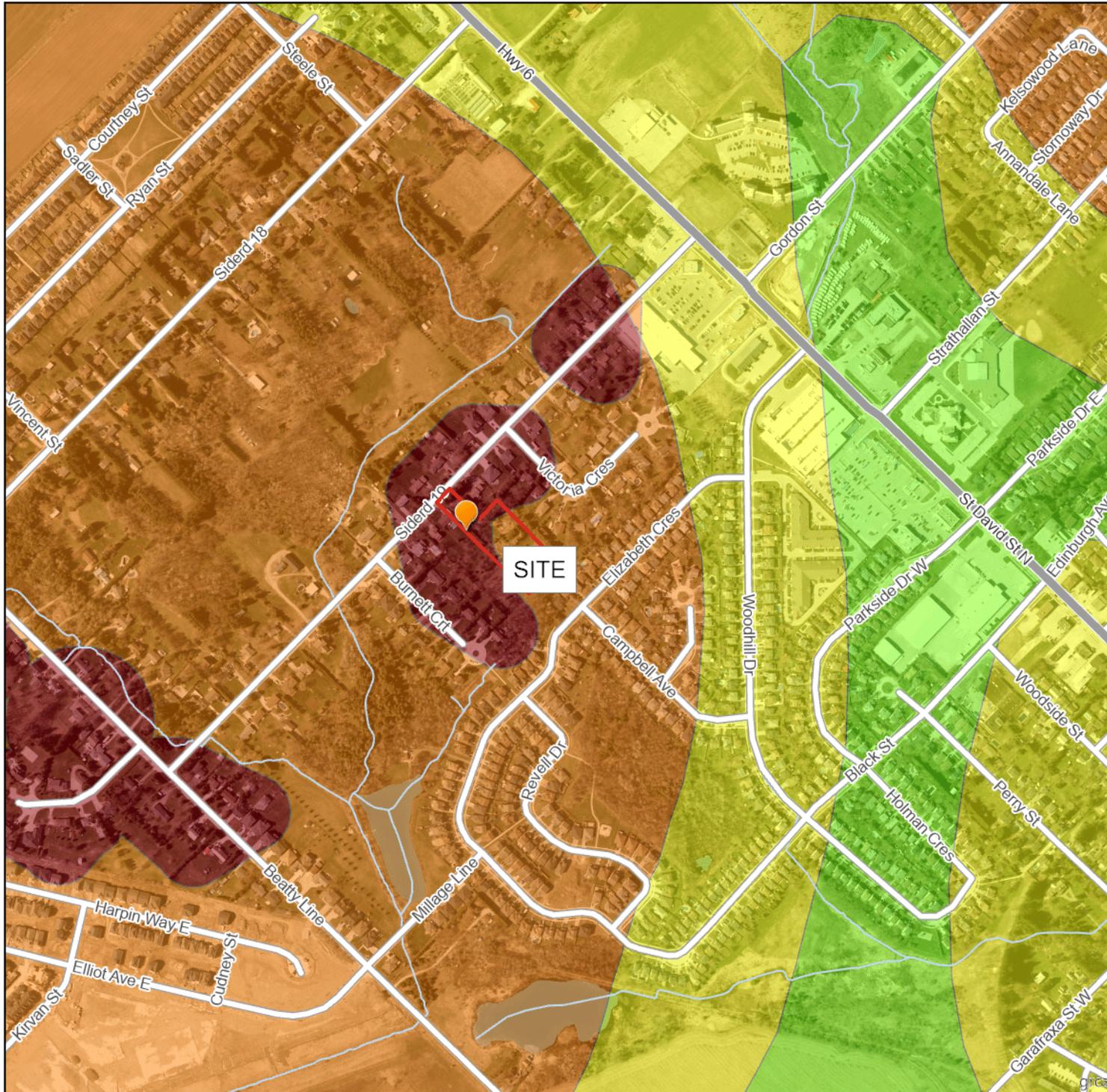




Wellhead Protection Areas - Vulnerability

Legend

- Municipal Boundary (GRCA)
- WHPA Vulnerability (GRCA)**
 - 10
 - 8
 - 6
 - 4
 - 2
- Watercourse (GRCA)
- Waterbody (GRCA)
- Conservation Area Boundary (GRCA)



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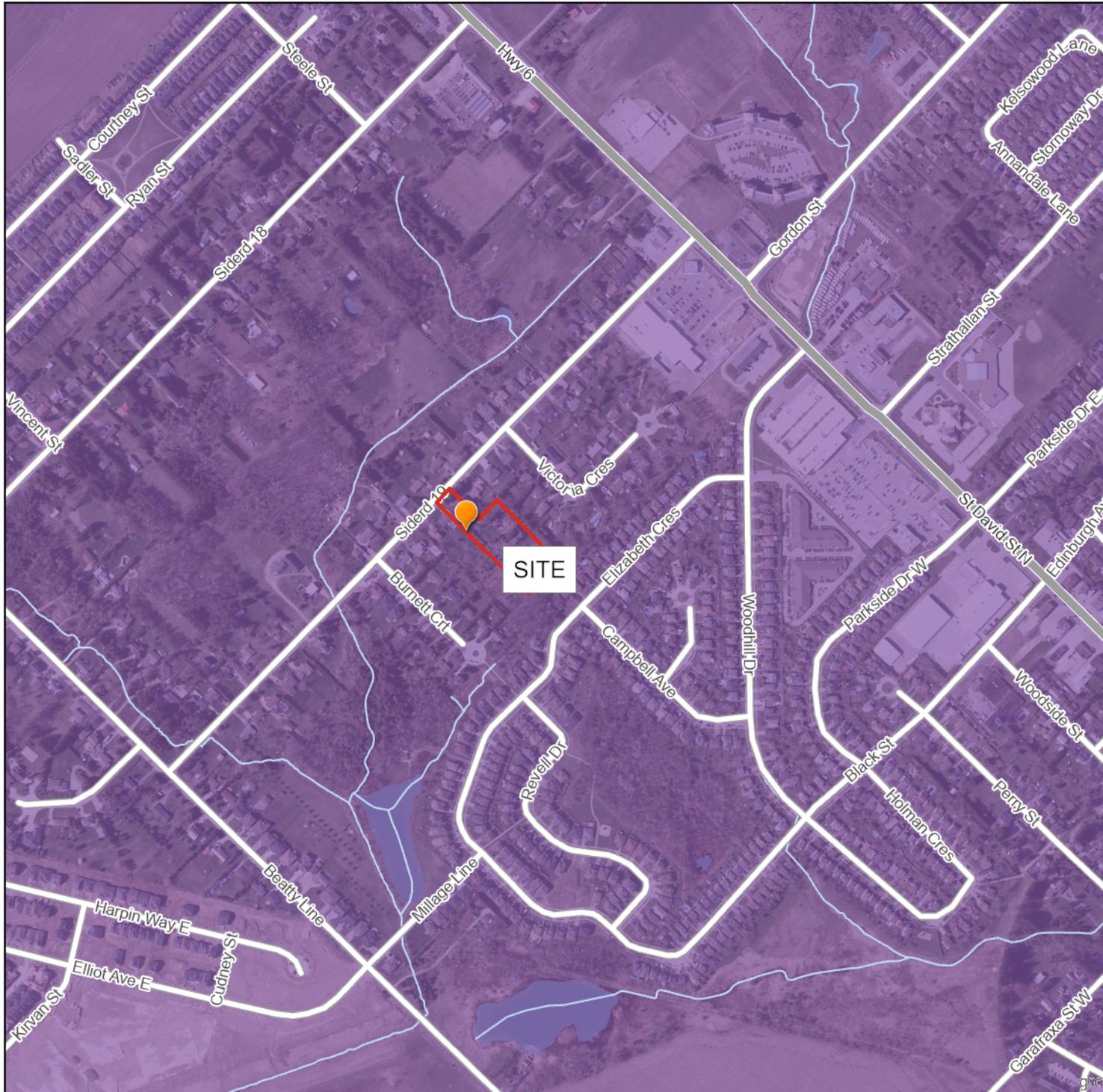




Wellhead Water Quantity Zone

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)

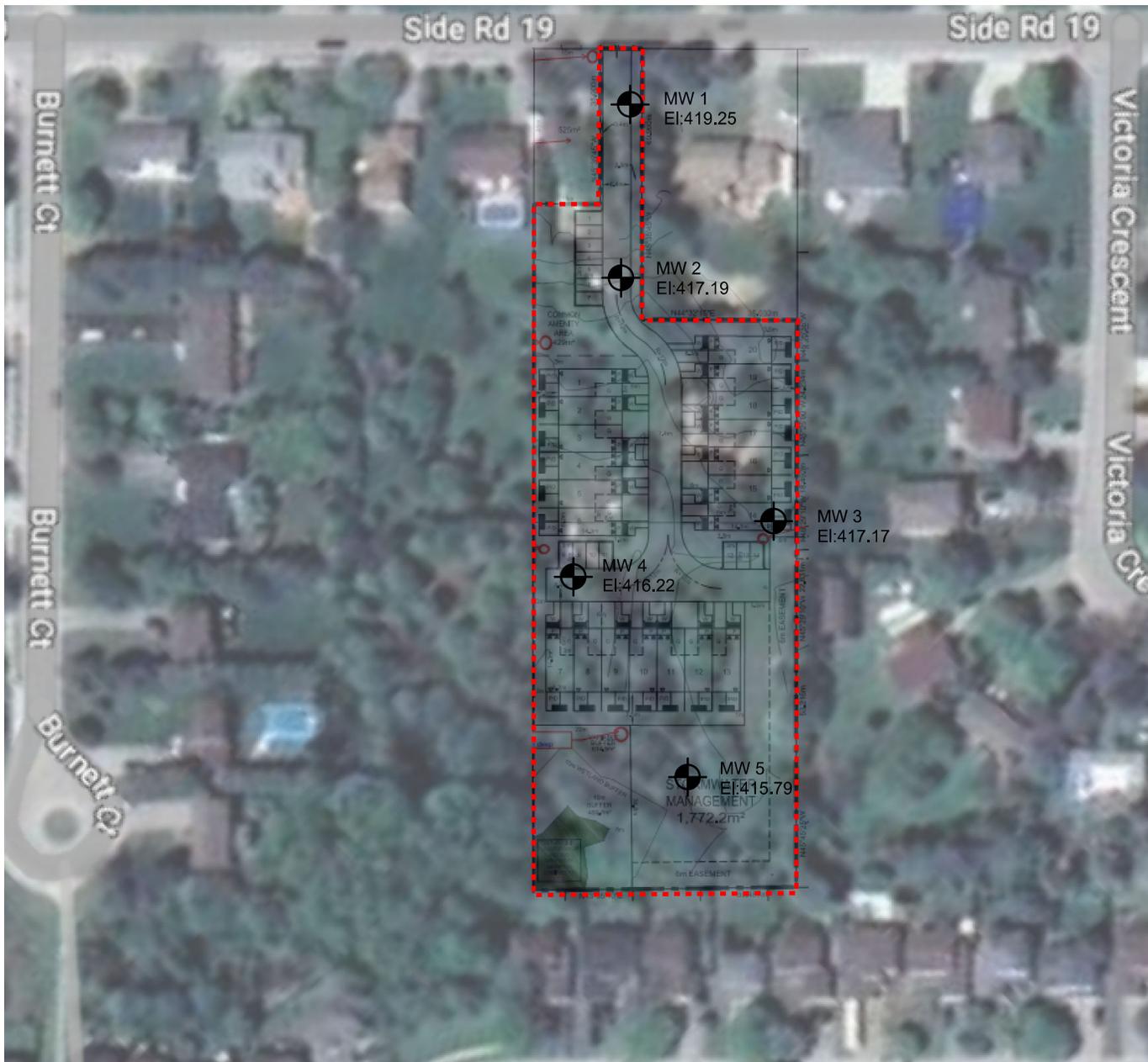


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Appendix E Borehole Logs and Grain-Size Analyses



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.

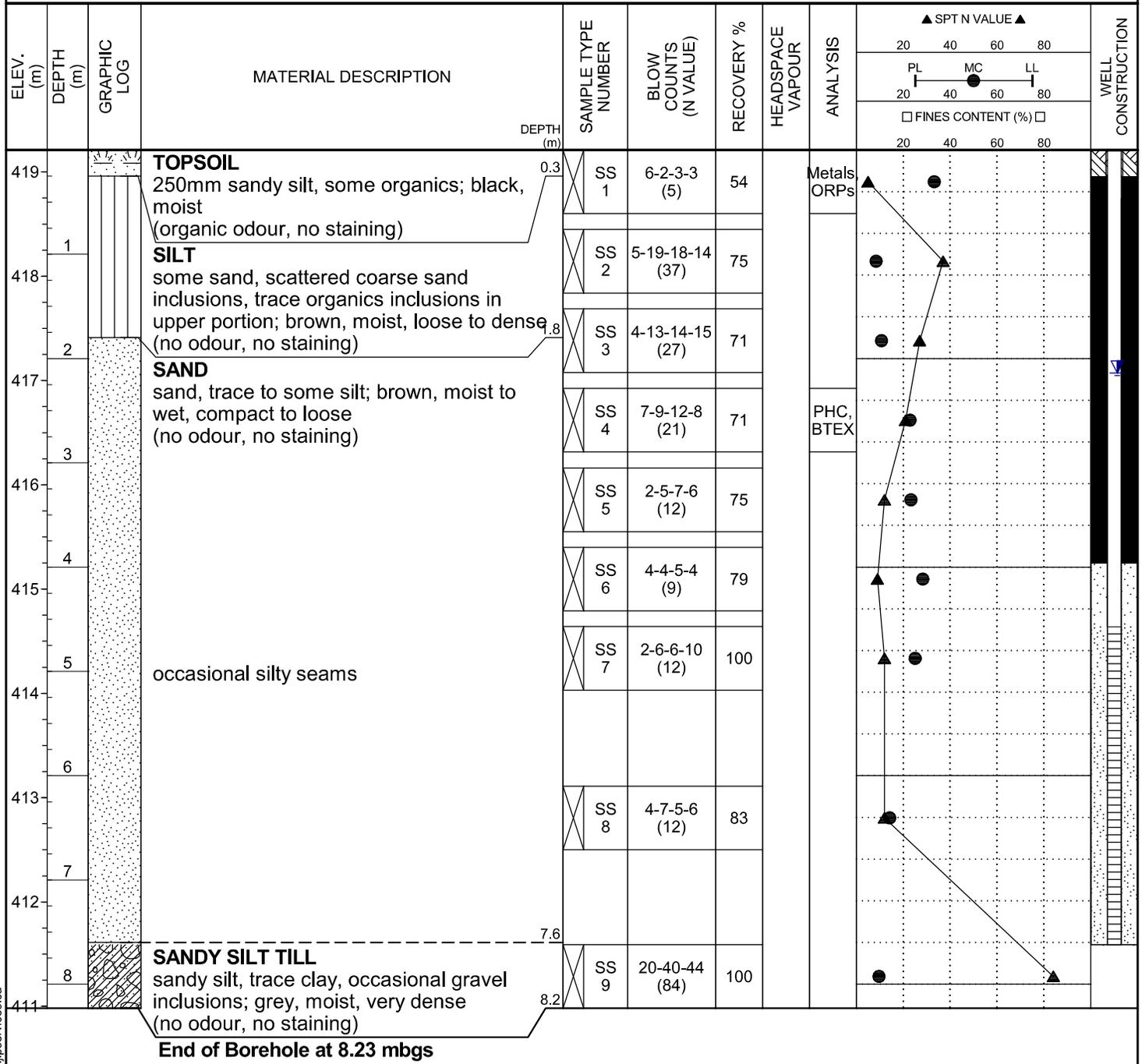


Geotechnical Investigation
 WrightHaven Homes Limited
 73-79 Side Road 19,
 Township of Centre Wellington (Fergus), On

Date: March 29, 2023	Ref. No. G4670-23-01	
Prepared By: PB	Checked By: JB	DWG. No. 1
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		FILL 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		TOPSOIL 650mm sandy silt, some organics; black, moist (organic odour, no staining)	0.8	SS 2	2-6-5-5 (11)	75			▲	●		
415	1.5		SILT 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			SAND 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			▲	●		

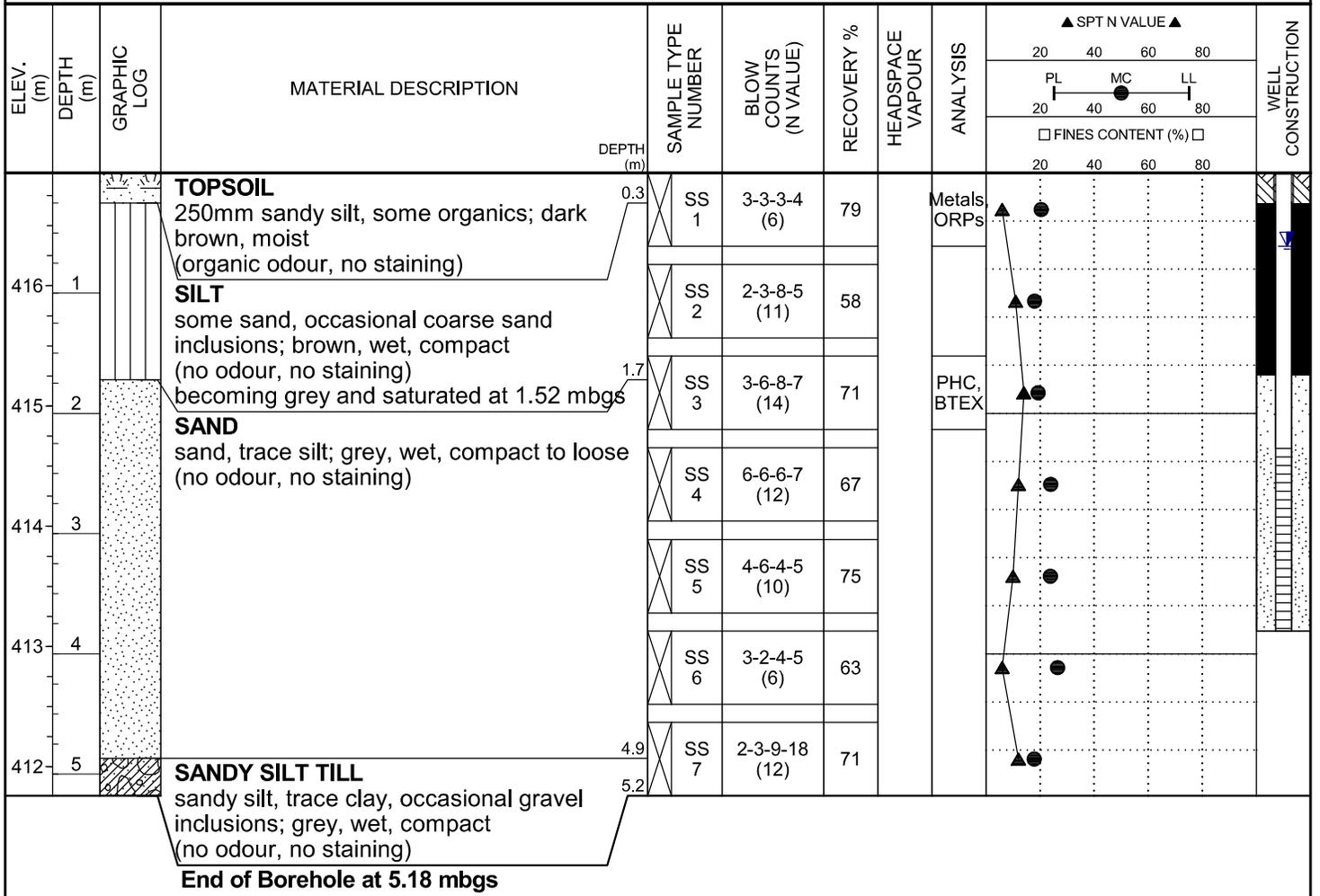
End of Borehole at 5.18 mbgs

Water Level Readings:

Date	Depth (m)	Elevation (m)
Mar 14, 2023	N/R	N/R
Apr 05, 2023	0.12	416.98

CLIENT 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 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		FILL 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		TOPSOIL 500mm sandy silt, some organics; black, moist (organic odour, no staining)	1.0	SS 2	1-3-5-5 (8)	46							
414	3.5		SILT some sand, scattered organic seams and wood fibres in upper portion; grey, wet, loose (no odour, no staining)	3.5	SS 3	2-2-3-3 (5)	71							
413	3.7		SAND sand, trace silt; grey, wet, loose to compact (no odour, no staining)	3.7	SS 4	3-7-11-7 (18)	50							
	3.7		SANDY SILT TILL sandy silt, occasional gravel inclusions; grey, wet, compact (no odour, no staining)	3.7	SS 5	15-15-15-13 (30)	100							

Water Level Readings:
 Date Depth (m) Elevation (m)
 Mar 14, 2023 0.68 415.62
 Apr 05, 2023 0.20 416.10

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 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		TOPSOIL 100mm sandy silt, some organics; black (organic odour, no staining)	0.1	SS 1	3-3-4-4 (7)	42						
415.0	1.0		SILT 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		SAND 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			3.0	SS 4	5-6-3-3 (9)	58						
412.0	4.0			4.0	SS 5	1-1-2-6 (3)	71						
412.0	4.42		SANDY SILT TILL sandy silt, trace clay, occasional gravel inclusions; grey, wet, very dense (no odour, no staining)	4.4	SS 6	11-17-36-37 (53)	67						

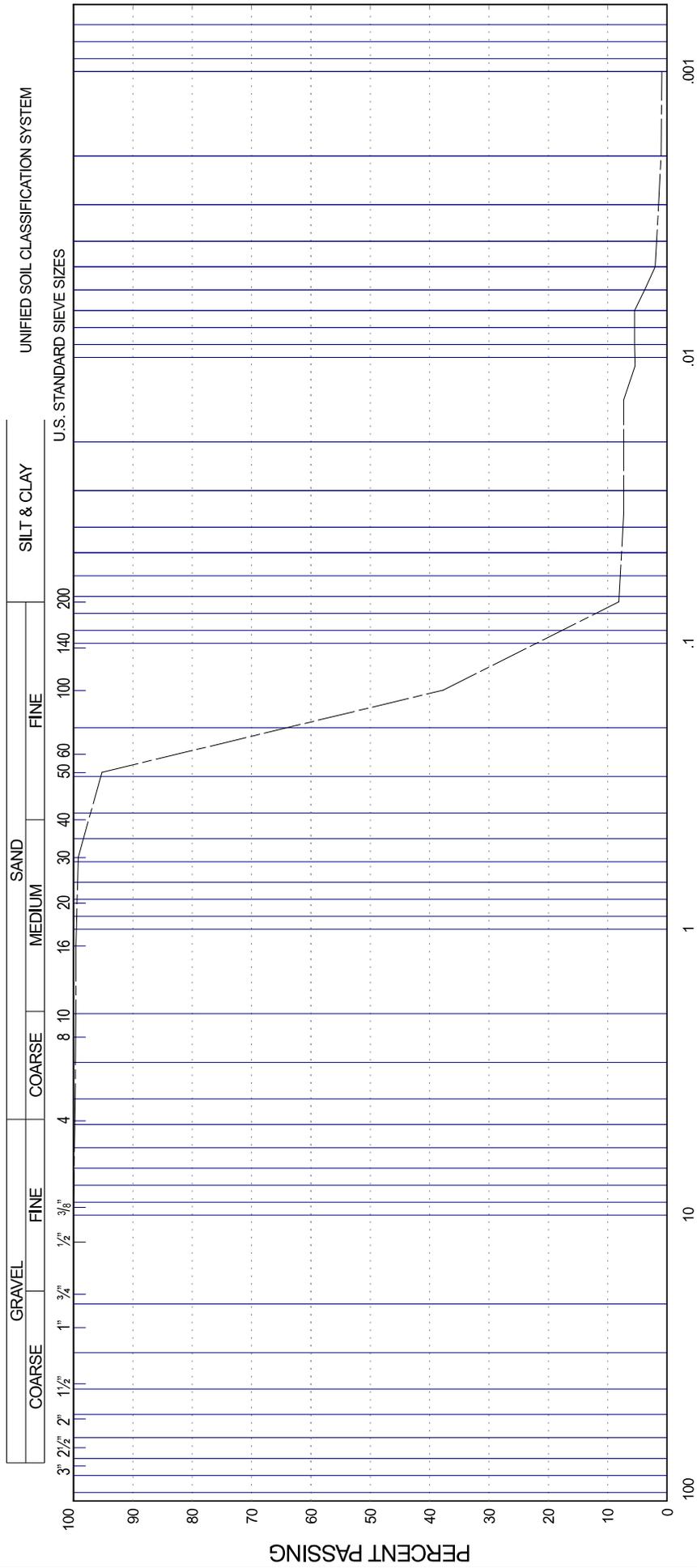
End of Borehole at 4.42 mbgs

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 in Millimeters

PLASTIC PROPERTIES
 LIQUID LIMIT % = -
 PLASTIC LIMIT % = -
 PLASTICITY INDEX % = -
 MOISTURE CONTENT % = 25.3

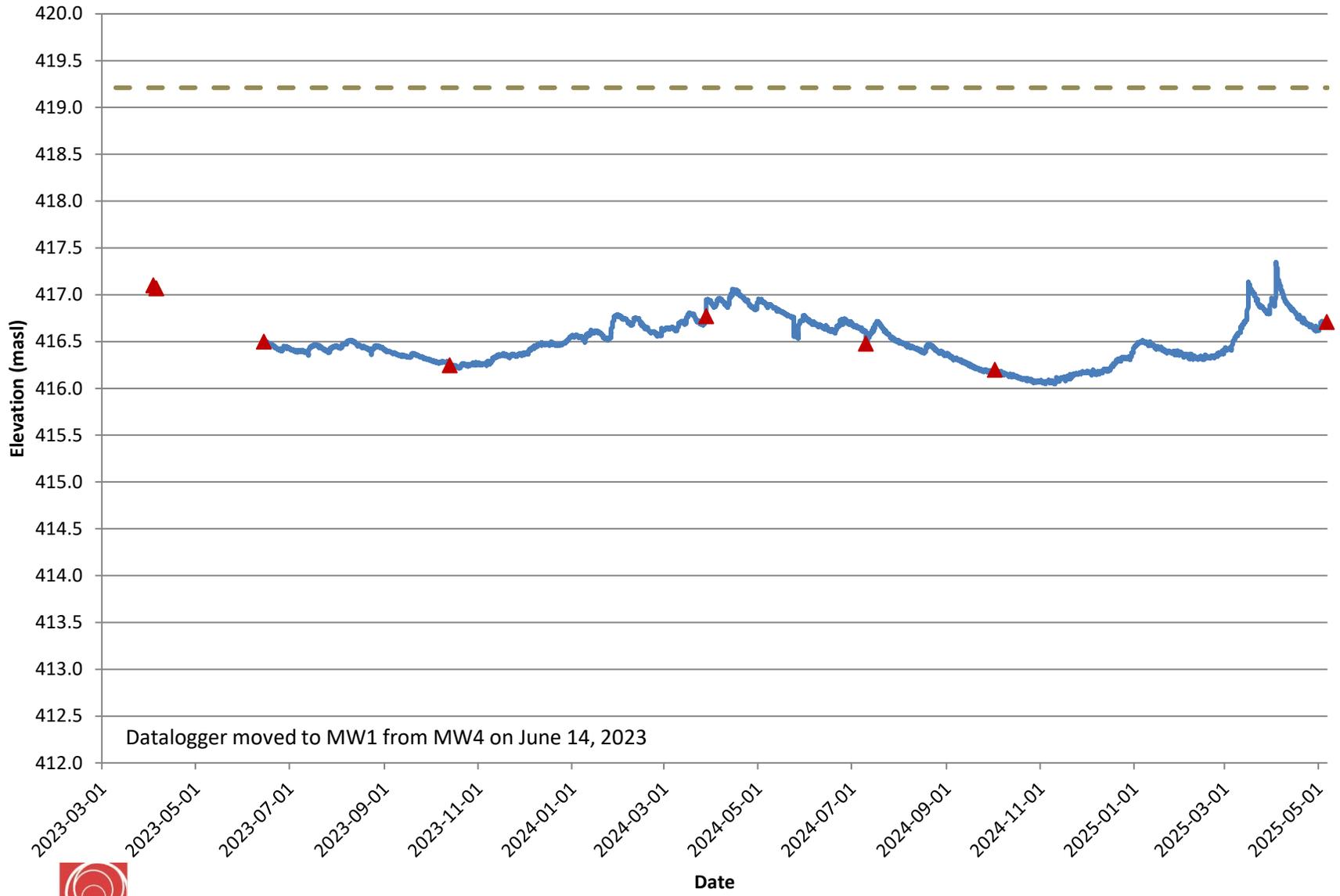
COEFFICIENT OF UNIFORMITY:
 COEFFICIENT OF CURVATURE:

PROJECT: Residential Subdivision
 LOCATION: 79 - 87 Sideroad , Fergus, ON
 BOREHOLE N°: 1
 SAMPLE N°: 5
 DEPTH: 3.0- 3.6 m±
 ELEVATION: 416.3 - 415.7 m±

Classification of Sample and Group Symbol:
 SAND, trace silt

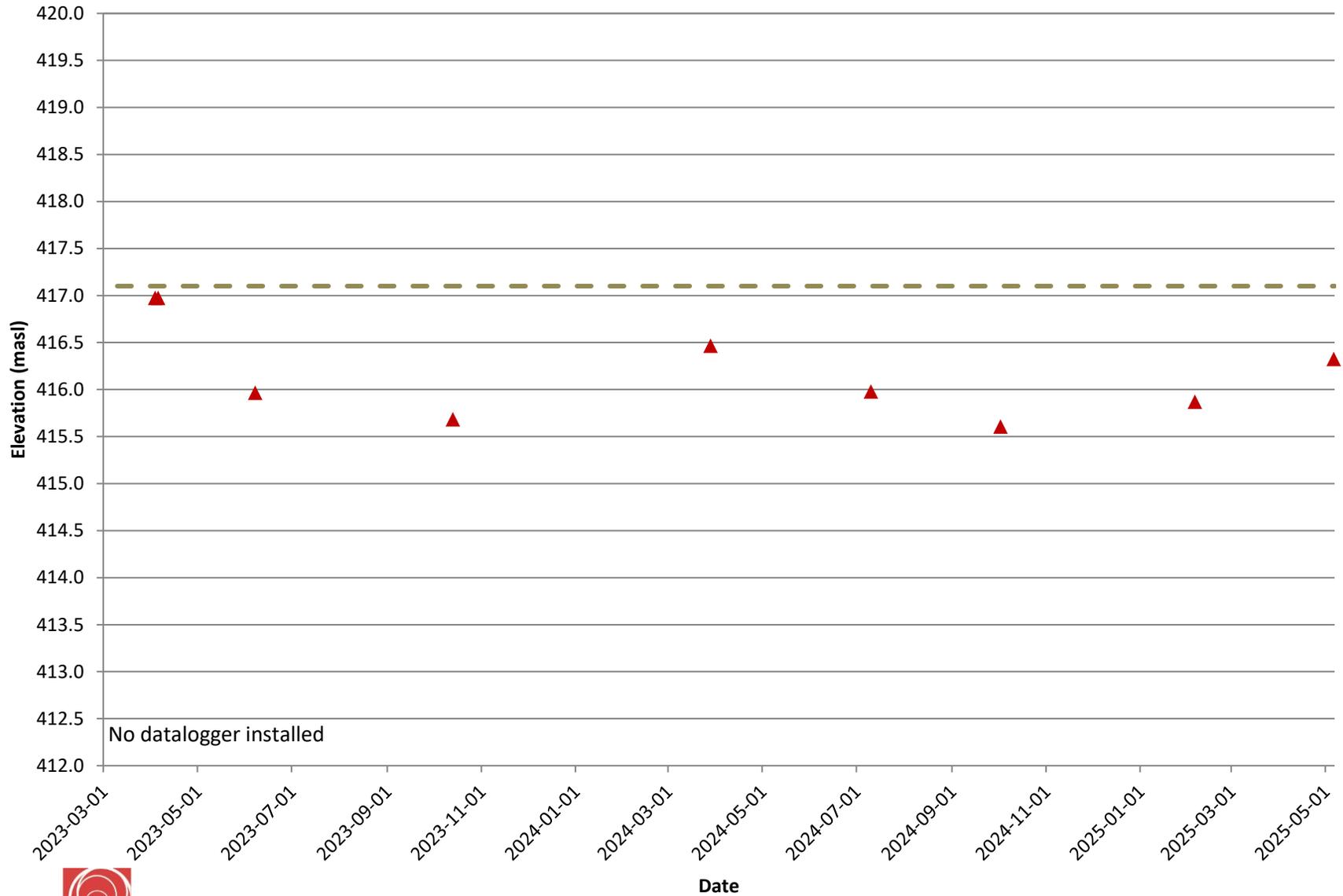
Appendix F Groundwater Hydrographs

Chart 1: Hydrograph of MW1



— Groundwater Level ▲ Manual Readings - - - Ground Surface

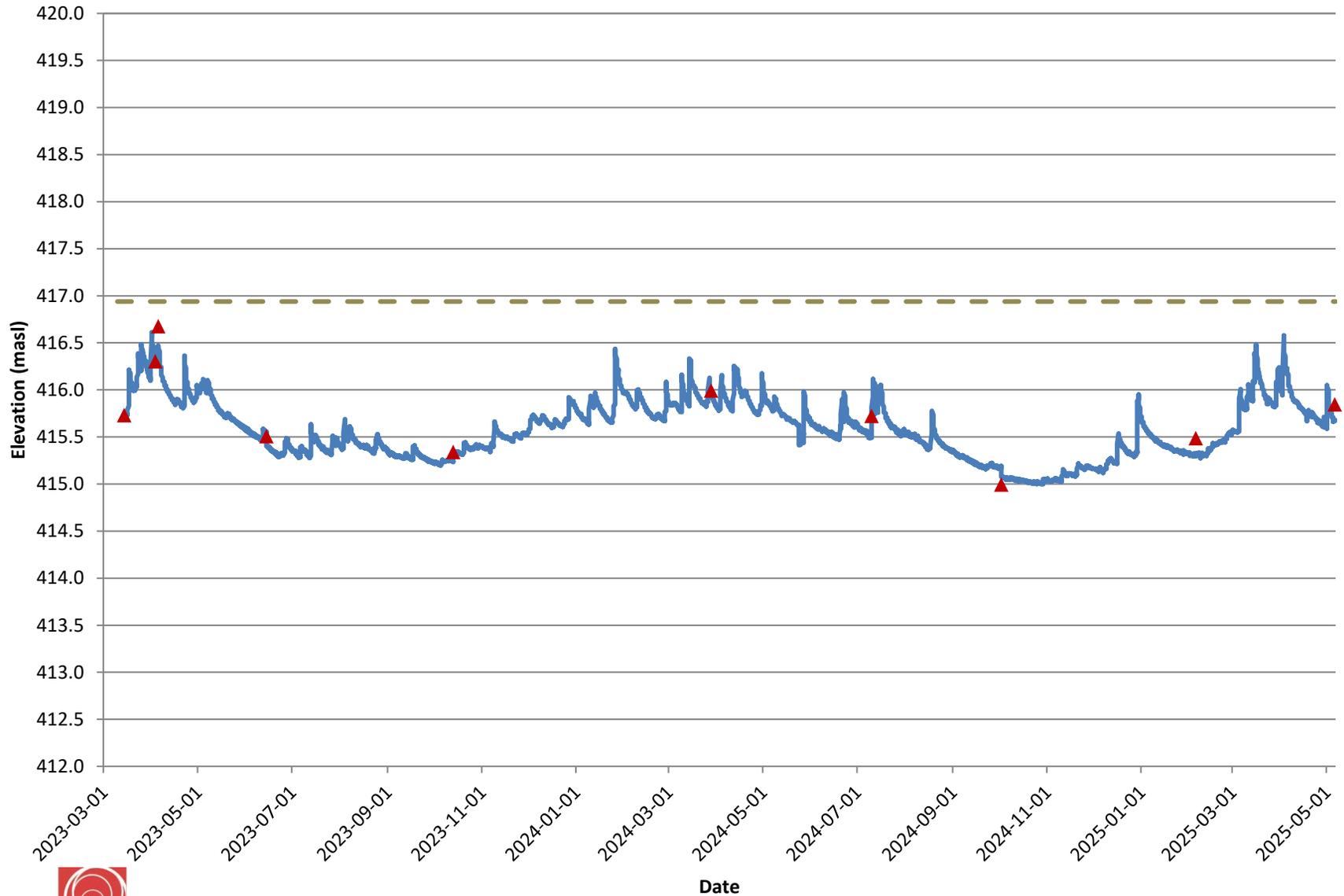
Chart 2: Hydrograph of MW2



▲ Manual Readings

— Ground Surface

Chart 3: Hydrograph of MW3



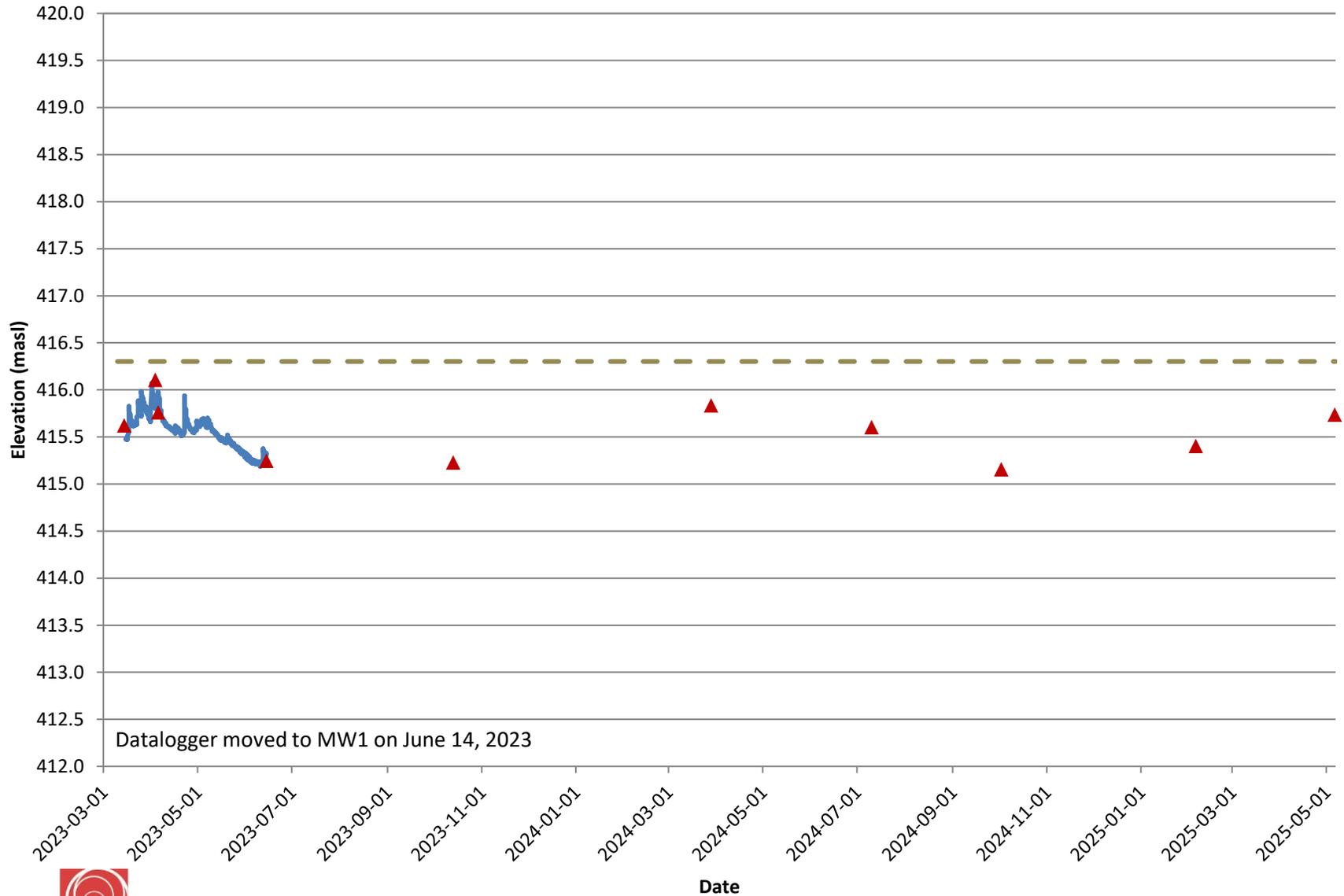
— Groundwater Level

Date

▲ Manual Readings

--- Ground Surface

Chart 4: Hydrograph of MW4



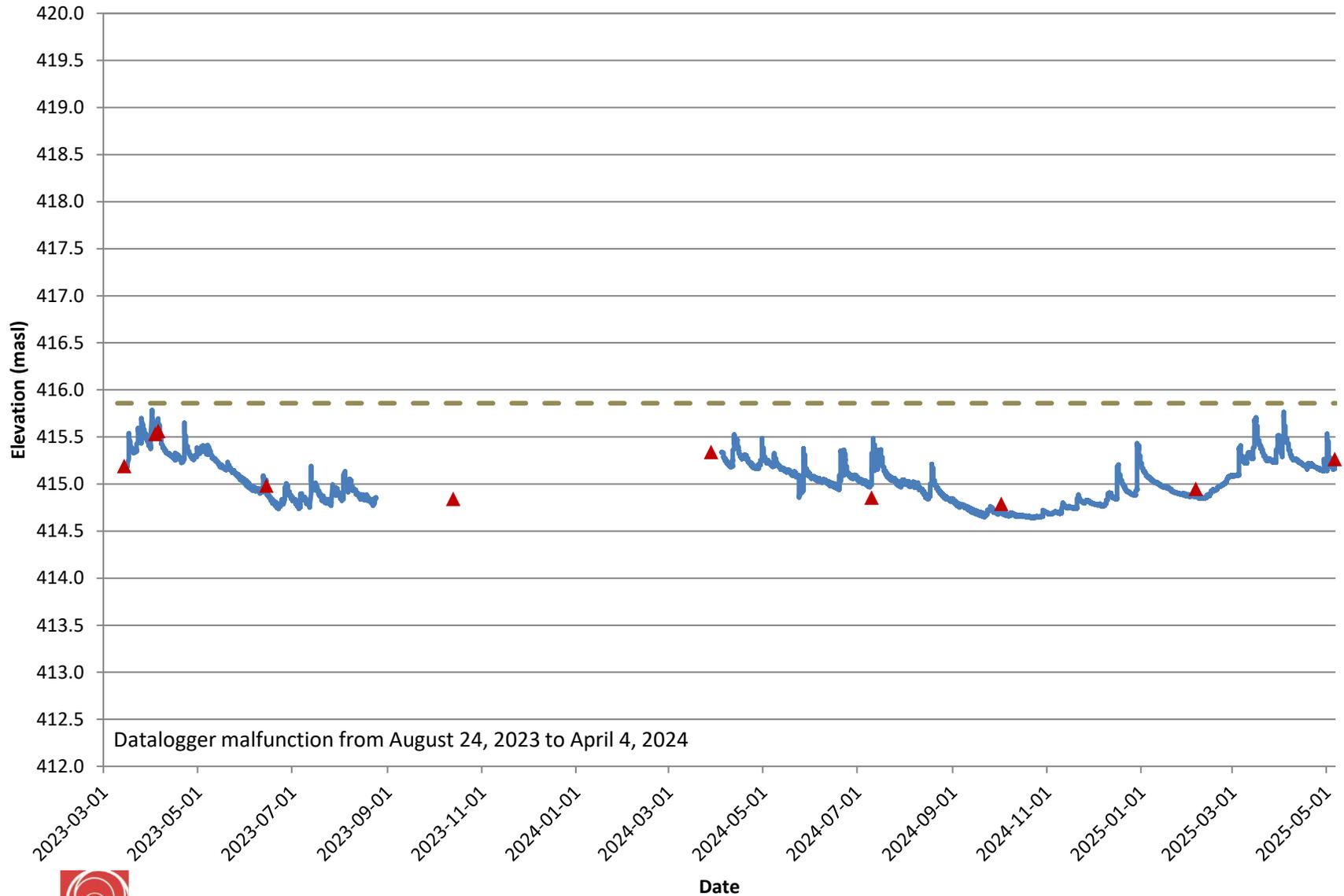
— Groundwater Level

Date

▲ Manual Readings

- - - Ground Surface

Chart 5: Hydrograph of MW5



Datalogger malfunction from August 24, 2023 to April 4, 2024



— Groundwater Level

Date

▲ 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
Calculated Parameters								
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			
Inorganics								
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	1.4	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			
Metals								
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								



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
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

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.



Invoice Information		Invoice to (requires report) <input checked="" type="checkbox"/>		Report Information (if differs from invoice)				Project Information					
Company: GM Blueplan Engineering		Company:		Quotation #:				Project #:					
Contact Name: Kim Wilkinson		Contact Name: Mark Ongarato / Joanna Olesiuk		P.O. #/ AFER:				Site #:					
Street Address: 650 Woodlawn Rd W, Bldg C, Unit 2		Street Address:		Project #:				Site Location:					
City: Guelph	Prov: ON	Postal Code: N1K1B8	City:	Prov:	Postal Code:	Site #:				Site Location: 79 Sideroad 19, Fergus			
Phone: 519-824-8150		Phone:		Site Location Province: Ontario				Sampled By: MO					
Email: info@gmblueplan.ca		Email: Mark.Ongarato@gmblueplan.ca		Copies:				Copies: Joanna.Olesiuk@gmblueplan.ca					

04-Apr-23 16:24
 Ashton Gibson

 C394527
 RUK ENV-409

Regulatory Criteria												Regular Turnaround Time (TAT)															
REG 153												Rush Turnaround Time (TAT)															
<input type="checkbox"/> Table 1			<input type="checkbox"/> Res/Park			<input type="checkbox"/> Med/Fine			<input type="checkbox"/> CCME			<input type="checkbox"/> Reg 406, Table:			<input checked="" type="checkbox"/> 5 to 7 Day			<input type="checkbox"/> 10 Day									
<input type="checkbox"/> Table 2			<input type="checkbox"/> Ind/Comm			<input type="checkbox"/> Course			<input type="checkbox"/> Reg 558*			<input type="checkbox"/> Sanitary Sewer Bylaw			<input type="checkbox"/> Same Day			<input type="checkbox"/> 1 Day									
<input type="checkbox"/> Table 3			<input type="checkbox"/> Agri/other			<input type="checkbox"/> For RSC			*min 3 day TAT			<input type="checkbox"/> Storm Sewer Bylaw			<input type="checkbox"/> 2 Day			<input type="checkbox"/> 3 Day									
<input type="checkbox"/> Table									<input type="checkbox"/> MISA			Municipality			<input type="checkbox"/> 4 Day												
									<input checked="" type="checkbox"/> PWQO			Other:			Date Required: YY MM DD			Comments									
Include Criteria on Certificate of Analysis (check if yes): <input checked="" type="checkbox"/>																											
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																											
Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	RCap (COMP) Surface Water											# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	MW1	23	04	03	14	00	Water - Ground	X		X																	

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY												LAB USE ONLY												LAB USE ONLY												Temperature reading by:
Seal present			Seal present			Seal present			Seal present			Seal present			Seal present			Seal present			Seal present			Seal present												
Seal intact			Seal intact			Seal intact			Seal intact			Seal intact			Seal intact			Seal intact			Seal intact			Seal intact												
Cooling media present			Cooling media present			Cooling media present			Cooling media present			Cooling media present			Cooling media present			Cooling media present			Cooling media present			Cooling media present												
Requisitioned by: (Signature/Print)												Received by: (Signature/Print)												Special Instructions												
1 M. [Signature] Mark Ongarato												1 [Signature] RAJ MARIANI																								
Date: 23 04 04												Date: 2023 04 04																								
Time: 08 00												Time: 16 24																								

BV-672691



**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

=====
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 #: 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
Calculated Parameters					
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
Inorganics					
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
Metals					
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					



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
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 ₃)		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 ₄	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

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.



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

Page 1 of 1

INVOICE TO: Company Name: #1067 GM BluePlan Engineering Limited Attention: Joe Rotondi GM BluePlan Address: 650 Woodlawn Rd W Block C, Unit 2 Guelph ON N1K 1B8 Tel: (519) 824-8150 Fax: (519) 824-8089 Email: jrotondi@gmsby.com info@GMBluePlan.ca		REPORT TO: Company Name: Attention: Joanna Olesiuk / Mark Ongarato Address: Tel: (519) 824-8150 Ext: 253 Fax: Email: joanna.olesiuk@gmblueplan.ca, cory.young@gmbluepl		PROJECT INFORMATION: Quotation #: B47865 P.O. #: Project: 122025-1 Project Name: Site #: Mo Sampled By:		Ashton Gibson C3G6157 RUK ENV-1280 C#724369-25-01 Order #: 724369 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: (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 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 PCAP (Comp) PCAP (Comp) Groundwater										<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 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												# of Bottles	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____		5											
<input type="checkbox"/> Table _____			<input checked="" type="checkbox"/> PWQO														
Include Criteria on Certificate of Analysis (Y/N)? <u>Yes</u>																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													
1	MW2	23/06/07	17:20	Ground water	X	X	X										
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 1524	# jars used and not submitted	Laboratory Use Only	
							Time Sensitive	Temperature (°C) on Receipt 8/11/10
							Custody Seal Present	Intact <input checked="" type="checkbox"/>
							Yes <input checked="" type="checkbox"/>	No <input 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.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client
IN LIZ PAGES



**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**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
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

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650 Woodlawn Rd W
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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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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
Calculated Parameters											
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
Inorganics											
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
Metals											
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
Calculated Parameters					
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
Inorganics					
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
Metals					
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
Calculated Parameters					
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
Inorganics					
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
Metals					
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

Bureau Veritas ID			VHK481		
Sampling Date			2023/03/14 13:00		
	UNITS	Criteria	SW-001	RDL	QC Batch
Inorganics					
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



**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

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

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		



BUREAU
VERITAS

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

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
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

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

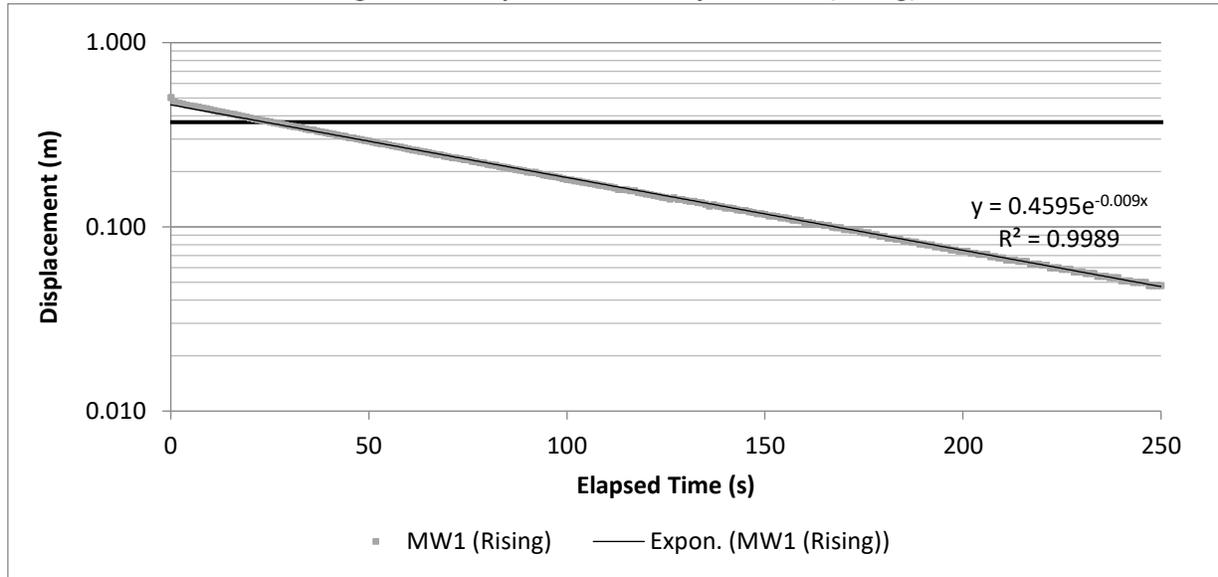
GM BluePlan Engineering Limited
Client Project #: 122025-1
Site Location: 79 SIDEROAD 19, FERGUS
Sampler Initials: MO

**Exceedance Summary Table – Prov. Water Quality Obj.
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
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

Single Well Response Test Analysis: MW1 (Rising)



Bouwer-Rice Analysis

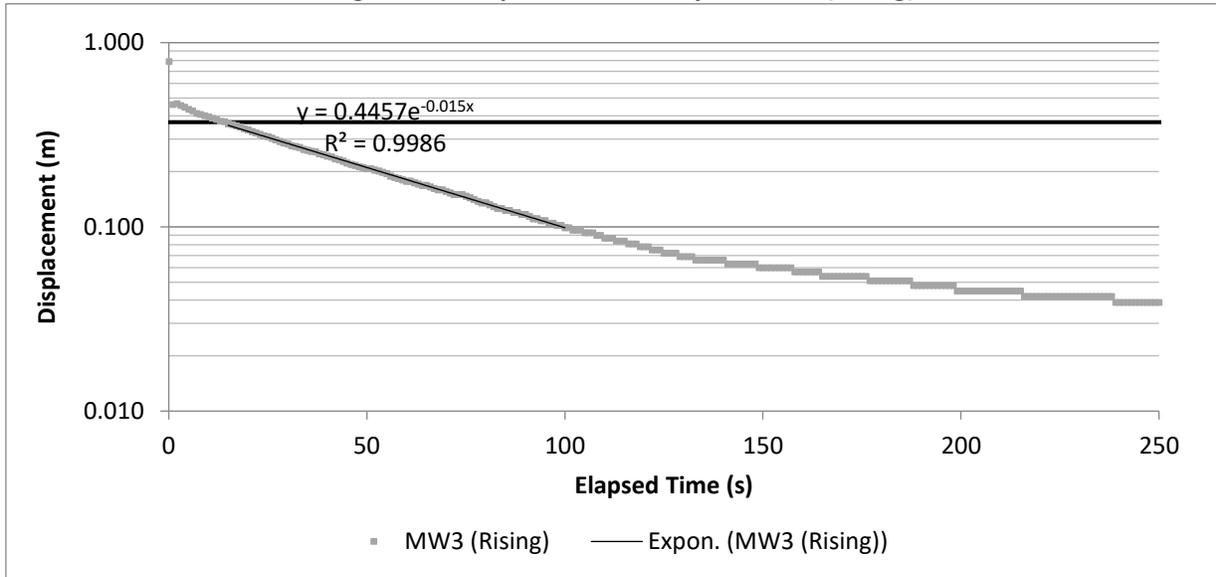
Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

(1/t)(ln(y _o /y _t))=	9.00E-03	(from slope of data)
L =	3.05	(Saturated Length of Screen)
r _w =	0.1048	(radius of filter pack)
L/r _w =	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 _e /r _w)=	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 _c =	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

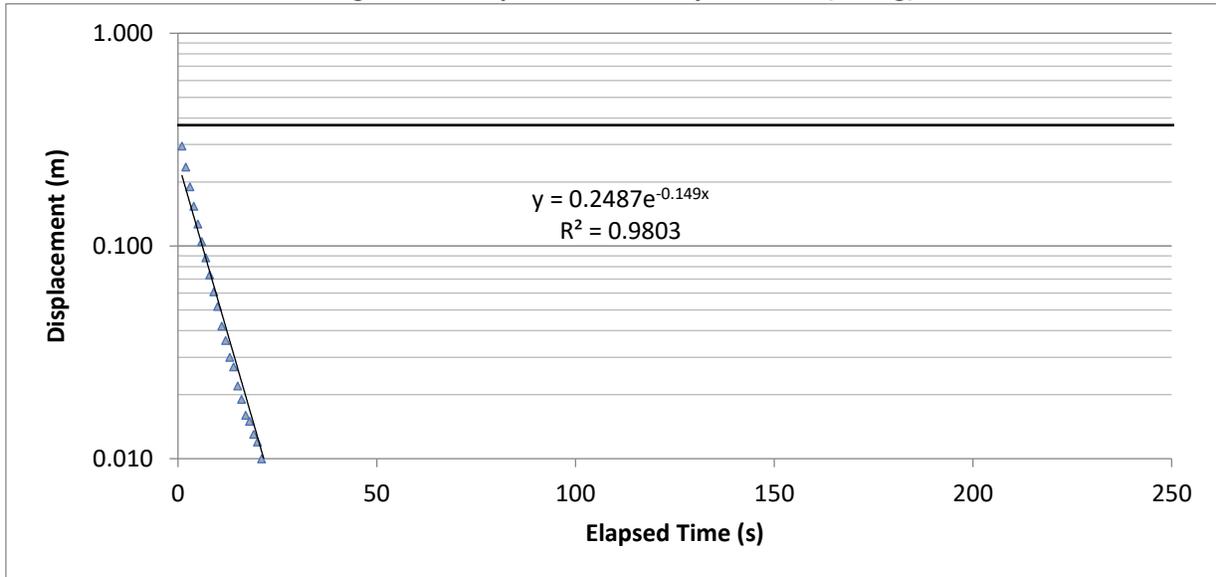
Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

(1/t)(ln(y _o /y _t))=	1.50E-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 =	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 _e /r _w)=	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 _c =	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

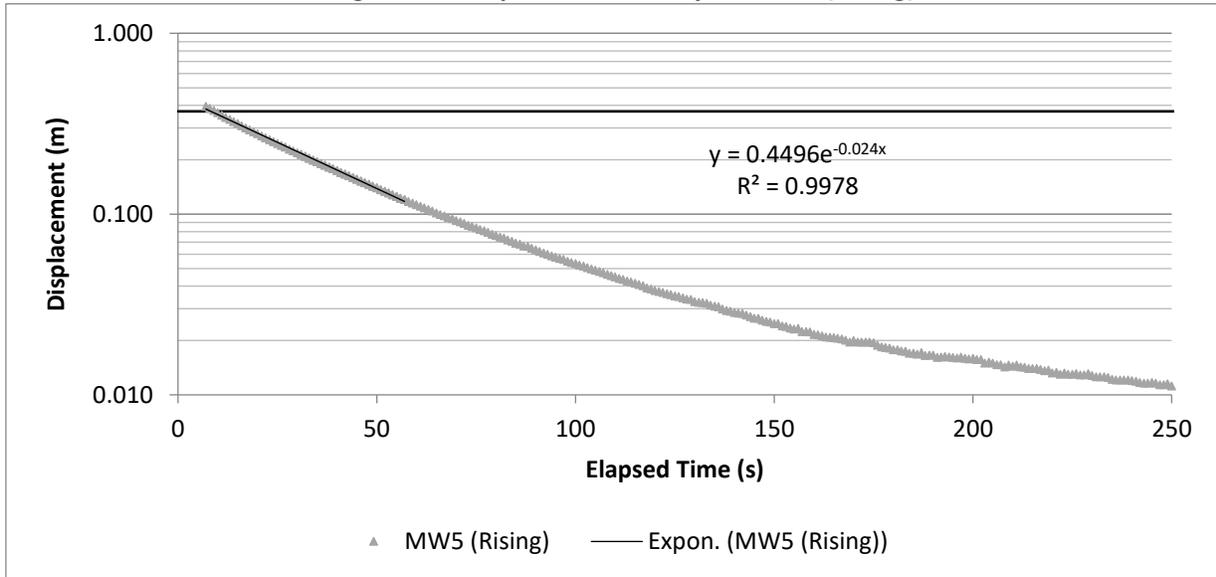
Governing Equation:

$$k = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right) \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right)}{2L}$$

$(1/t)(\ln(y_o/y_t))=$	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

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 = 417.35 masl (max GWL at MW-1)

Base of Deepest Structure = 413.3 masl (existing sanitary sewer on SR 19/Manhole MH-C)

Target Groundwater Level = 412.8 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 = 7×10^{-5} m/s, per maximum slug test result, c.f. MW4

Typical k = 2×10^{-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 masl (SWM Pond Forebay)

Target Groundwater Level = 413.5 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 = 7×10^{-5} m/s, per maximum slug test result cf. MW-4

Typical k = 1×10^{-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 ₀ =	114.2	m (Radius of Influence)
H=	417.35	m (Initial Head)
h=	412.8	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=	239,161	L/d (Dewatering Flow)
x=	30	m (Length of Trench)
k=	7.00E-05	m/s (Hydraulic Conductivity)
H=	5.75	m (Initial Head)
h=	1.2	m (Head at Drawdown)
L=	57.1	m (Distance to "Source")
R ₀ =	114.2	m (Radius of Influence)
r _w =	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 _o =	19.3	m (Radius of Influence)
H=	417.35	m (Initial Head)
h=	412.8	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=	23,703	L/d (Dewatering Flow)
x=	30	m (Length of Trench)
k=	2.00E-06	m/s (Hydraulic Conductivity)
H=	5.75	m (Initial Head)
h=	1.2	m (Head at Drawdown)
L=	9.7	m (Distance to "Source")
R _o =	19.3	m (Radius of Influence)
r _w =	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 ₀ =	57.5	m (Radius of Influence)
H=	415.79	m (Initial Head)
h=	413.5	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=	74,219	L/d (Dewatering Flow)
k=	7.00E-05	m/s (Hydraulic Conductivity)
H=	3.89	m (Initial Head)
h=	1.6	m (Head at Drawdown)
R ₀ =	57.5	m (Radius of Influence)
r _w =	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 ₀ =	21.7	m (Radius of Influence)
H=	415.79	m (Initial Head)
h=	413.5	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=	15,197	L/d (Dewatering Flow)
k=	1.00E-05	m/s (Hydraulic Conductivity)
H=	3.89	m (Initial Head)
h=	1.6	m (Head at Drawdown)
R ₀ =	21.7	m (Radius of Influence)
r _w =	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 ₀ =	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 ₀ =	16.7	m (Radius of Influence)
r _w =	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	240,000	114
Dewatering for SWM Pond	16,000	75,000	57
Dewatering for Basement	0	29,000	2

†- Based on maximum dewatering scenario