

### **REVISED**

# Servicing Options Statement, Terrain Assessment and Hydrogeological Study in Support of Development

Part Lot 25, Concession 12 Beckwith Township, Ontario

Prepared for:

# Douglas Landing Developments

1 Forillon Cres. Kanata, Province, ON K2M 2W5

September 22, 2025

Pinchin File: 283258.005



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Issued To: Douglas Landing Developments

Issued On: September 22, 2025

Pinchin File: 283258.005
Issuing Office: Kingston, ON
Primary Pinchin Contact: Phil Tibble

613.449.3731

ptibble@pinchin.com

Author: Phil Tibble, M.Sc., P.Geo., QPESA

Senior Technical Manager (Hydrogeolgoy)

Reviewer: Byron O'Connor, P.Eng.

Senior Technical Manager

© 2025 Pinchin Ltd. Page i

September 22, 2025 Pinchin File: 283258.005 REVISED

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

### **TABLE OF CONTENTS**

1.0	INTR	ODUCTIO	DN	1
	1.1 1.2 1.3	Site Set	oundtingblogic Setting	1
2.0	SCO	PE OF WO	ORK	2
	2.1	The Ser	vicing Options Statement Scope of Work	2
	2.2	The Ter	rain Assessment Scope of Work	3
	2.3		eology Study Scope of Work	
3.0	METH	HODOLOG	GY	5
	3.1	Constan	nt Discharge Pumping Tests	5
	3.2		ting Protocols	
	3.3			
4.0			ER SUPPLY - REGULATORY CRITERIA	
5.0	RESU	JLTS		8
	5.1		of Servicing in the Area	
	5.2		of Potable Water Supply in the Area	
	5.3		of Water Well Records for Site	
		5.3.1	Well #1 (A360958)	
		5.3.2 5.3.3	Well #2 (A360957)	
		5.3.4	Well #4 (A360959)	
	5.4		nt Discharge Pumping Tests	
	0.4	5.4.1	Well #1 (A360958)	
		5.4.2	Well #2 (A360957)	
		5.4.3	Well #3 (A360960)	
		5.4.4	Well #4 (A360959)	
	5.5	Aquifer	Characteristics	15
		5.5.1	Discussion of Results	16
	5.6		ıl for Well Interference	
	5.7		water Flow Direction	
	5.8		upply – Quality	
		5.8.1	Well #1 (A360958)	
		5.8.2	Well #2 (A360957)	
		5.8.3 5.8.4	<b>Well #3</b> (A360960) <b>Well #4</b> (A360959)	
	5.9		reatment Options	
	5.10		tability for In-Ground Wastewater Disposal	
	5.11		ment of Potential for Groundwater Impact by on-Site Sewage System	
	0.11	5.11.1	Step 1 – Lot Size Considerations	
		5.11.2	Step 2 - System Isolation Considerations	
		5.11.3	Step 3 – Attenuation Calculations	
	5.12		erations Regarding Secondary Units	
		5.12.1	Water Supply	31
		5.12.2	In-ground Wastewater Disposal	32



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

	5.13	Secondary Unit Sizing	32
6.0	TERM	//S AND LIMITATIONS	34

### **APPENDICES**

APPENDIX I

APPENDIX II Well Records

APPENDIX III Aqtesolv Analysis Output

APPENDIX IV Permission Letters

APPENDIX V Analytical Summary Tables and Plots

APPENDIX VI Laboraotry Certificates of Analysis

**Figures** 

APPENDIX VIII Nitrate Attenuation Calculations

Borehole Logs

#### **FIGURES**

APPENDIX VII

Figure 1 - Key Map

Figure 2 – Site Plan with Lot Layout and Testing Locations

Figure 3 - Bedrock Geology of Site and Area

Figure 4 – Quaternary Geology of Site and Area

Figure 5 - Physiography of Site and Area

Figure 6 – MECP Well Records Within 500 m of Site Boundary

Figure 7 – Well #1 A360958 Pumping Well Drawdown and Recovery

Figure 8 – Well #2 A360957 Pumping Well Drawdown and Recovery

Figure 9 – Well #3 A360960 Pumping Well Drawdown and Recovery

Figure 10 – Well #4 A360959 Pumping Well Drawdown and Recovery

Figure 11a - Monitoring Network Water Level Response During Pumping Test Well #1 A360958

Figure 11b – Monitoring Network Water Level Response During Pumping Test Well #1 A360958 Reduced Y-axis

Figure 12a - Monitoring Network Water Level Response During Pumping Test Well #2 A360957

Figure 12b – Monitoring Network Water Level Response During Pumping Test Well #2 A360957 Reduced Y-axis

Figure 13a – Monitoring Network Water Level Response During Pumping Test Well #3 A360960

Figure 13b – Monitoring Network Water Level Response During Pumping Test Well #3 A360960 Reduced Y-axis

© 2025 Pinchin Ltd. Page iii

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

- Figure 14a Monitoring Network Water Level Response During Pumping Test A360959 (Well #4)
- Figure 14b Monitoring Network Water Level Response During Pumping Test A360959 (Well #4) Reduced Y-axis

Figure 15 – Groundwater level Elevations and Contours (September 16, 2025)

### **TABLES**

- Table 1 Summary of Supply Well Characteristics for Wells within ~500 m of the Site (in Appendix II)
- Table 2 Summary Pumping Test Setup for Each Test Well
- Table 3 Summary of Pumping Test for Well #1 (A360958)
- Table 4 Summary of Pumping Test for Well #2 (A360957)
- Table 5 Summary of Pumping Test for Well #3 (A360960)
- Table 6 Summary of Pumping Test for Well #4 (A360959)
- Table 7 Summary of Agtesolv Analysis Results
- Table 8 Summary of Findings for Potential Well Interference
- Table 9 Raw Well Water Analytical Results (in Appendix V)
- Table 10 Test Pit Stratigraphy and Observations.
- Table 11 Summary of Nitrate Attenuation by Dilution Calculations

© 2025 Pinchin Ltd. Page iv

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

#### 1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) was retained through an Authorization to Proceed, signed by Dr. Gillian Espie of Douglas Landing Developments (Client), to conduct a Servicing Options Statement, Terrain Assessment and Hydrogeological Study in Support of Development at the property located at Part of Lot 25, Concession 12 Beckwith Township, Ontario (hereafter referred to as the Site). The Site location is shown on Figure 1 and Figure 2 (all figures are provided in Appendix I).

The purpose of the Hydrogeological Study and Terrain Assessment in Support of Development is to fulfill the Municipality requirements for a Services Options Statement, a Terrain Analysis, and a Hydrogeological Study to be completed as components for the development application.

This revised report provides additional information to address comments received from the Municipality and the Municipality's peer reviewer.

### 1.1 Background

The Client intends to develop the Site into a rural residential development with amenities. The concept plan supplied by the Client indicates that the proposed subdivision will be comprised of twenty-three (23) residential lots, and two (2) stormwater management lots. The average lot size for the residential lots is approximately 0.60 ha.

The Municipality requires a Services Options Statement, a Terrain Analysis, and a Hydrogeological Study to be completed as components by qualified consultants and the investigations are to conform to the Ministry of Environment, Conservation, and Parks (MECP) D-5 Planning for Sewage and Water Services, an implementation guide for municipal planning, servicing, and infrastructure with a focus on sewage and water services (Provincial Policy Statement under Section 3 of the Planning Act) and the guidance document "Scoped Hydrogeological Report Requirements for Development by Consent in Lanark County" authored by Mississippi Valley Conservation Authority and Rideau Valley Conservation Authority.

### 1.2 Site Setting

The Site is bounded by ditches that have been dug to the east and south, and agricultural fields to the north and west. Beyond the ditch to the east are single family residential dwellings, and beyond the ditch to the south is a private, undeveloped property. The Site consists of agricultural fields, mixed meadows, swamps, forests and hedgerows, with the wetlands found more centrally, and the upland biological communities generally found around the outside. The agricultural field and heavily disturbed mixed meadow are found close to the northern boundary of the Site, while the more natural communities are found closer to the southern boundary. To the north and west of the Site there are agricultural fields, and

© 2025 Pinchin Ltd. Page 1 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

to the east is a residential development in progress. South of the Site is primarily undeveloped lands, including forests and Provincially Significant Wetlands. The area is zoned as "Rural" in both the County and City Official Plans. A good portion of the Site is largely undisturbed or naturalized, due to the immediate surrounding areas being mostly urbanized or used for agricultural purposes. Thomas Cavanagh Construction Limited (Cavanagh Construction) has a large yard facility to the south of the Site, between Douglas Side Road and Cavanagh Road.

### 1.3 Site Geologic Setting

The Ontario Geological Survey classifies the bedrock underlying the Study Area as consisting primarily of Middle Ordovician (approximately 470 million years ago to 458.4 million years ago) limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group, with the northeast corner being Lower Ordovician (approximately 485.4 million years ago to 470 million years ago) dolostone and sandstone of the Beekmantown Group (Figure 3). The quaternary geology on the Site is a mix of glaciomarine and marine deposits of silt and clay basins and quiet-water deposits in the northwest, with the southeastern corner being Paleozoic bedrock (Figure 4). The surficial geological features of the Site consist of bedrock in the southeast, and fine-textured glaciomarine deposits of silt and clay, with minor sand and gravels in the northwest. The site is situated in the Smiths Falls Limestone Plain Regions as shown on Figure 5.

#### 2.0 SCOPE OF WORK

The scope of work outlined below is based on the guidance of the MECP D-5-3 Servicing Options Statement, MECP D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment, MECP D-5-5, Private Wells: Water Supply Assessment, discussions with the Client's planner, and information supplied to Pinchin by the Client. The scope of work was also informed by the guidance document "Scoped Hydrogeological Report Requirements for Development by Consent in Lanark County" authored by Mississippi Valley Conservation Authority and Rideau Valley Conservation Authority, and dated July 2, 2015. Additional guidance regarding septic design expectations for the Site was provided by Mississippi Rideau Septic System Office (MRSSO).

The scope of work consisted of the following activities.

### 2.1 The Servicing Options Statement Scope of Work

The Servicing Options Statement scope of work followed MECP Guideline D-5-3 including:

 Evaluation of proximity of existing or committed full municipal services or communal services and the ultimate potential for future connection to full municipal services or communal services for the whole area proposed for development;

© 2025 Pinchin Ltd. Page 2 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

- Review of the proposed development as being part of, or anticipated as being one of a number of proposals for the same development area, in which case the evaluation of servicing options will not be isolated to the site-specific proposal, but will be completed within the context of the development potential; and,
- Review of the environmental suitability of the Site for the proposed services based on information accessible at a municipal scale that can be applied to the proposed Site proposal including:
  - environmental constraints;
  - suitability of the terrain of the Site; and
  - performance of services in similar developments in the surrounding area; and the scale (total areal extent), density, and type of use proposed for the development.

### 2.2 The Terrain Assessment Scope of Work

The Terrian Assessment scope of work followed MECP Guideline D-5-3 including:

- Discussion and input of proposed locations for groundwater supply wells and septic bed locations with the Client and/or their representative;
- Excavation of up to fifteen (15) test pits across the area of the proposed development.
   Locations were selected to provide adequate coverage of any anticipated changes in soil type or depth to bedrock or saturated conditions. Where possible the test pits were excavated in the area identified as the preferred location for inground disposal of septic effluent on the lots;
- Test pits were excavated to a maximum depth of approximately 1.5 m below ground surface, or until bedrock or the water table was intersected;
- For each test pit, the soil type, texture, and other characteristics were logged and documented with photographs; and
- Up to 4 samples selected based on representation of the Site areas were collected and submitted to a materials testing laboratory for grain size analysis and estimate of percolation rates.

Every proposed development involving individual on-site sewage systems requires an assessment of the potential impact to groundwater resources. The purpose of the assessment is to ensure that the combined effluent discharges from all the individual on-site sewage systems in a development will have a

© 2025 Pinchin Ltd. Page 3 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

minimal effect on the groundwater and the present or potential use of the adjacent property. The assessment involves a three-step process with Step 1 being review of lot sizes. Developments consisting of lots which average 1 hectare (with no lot being smaller than 0.8 ha) may not require additional evaluation for areas that are not hydrogeologically sensitive. However, it is noted that the proposed development includes many lots which are less than 0.8 hectare, and as such additional assessment steps as per D-5-4 are required. This requirement will be met through evaluating the isolation of the aquifer and assessing the risk that the development's individual on-site systems will cause concentrations of nitrate-nitrogen in groundwater to exceed 10 mg/L at the downgradient property boundary.

### 2.3 Hydrogeology Study Scope of Work

Based on the Site size, Guideline D-5-5 prescribes a minimum of four (4) test wells as required for completion of the Hydrogeology Study. Guideline D-5-5 notes that the aerial distribution of test wells must be such that hydrogeological conditions across the Site are adequately represented. It is Pinchin's opinion that pumping tests on a minimum of four (4) test wells were required for appropriate evaluation of the Site. Further, it is noted that previously completed hydrogeologic investigations in support of the residential development to the east of the Site provides additional information that was incorporated into the study.

The Hydrogeology Study followed MECP Guideline D-5-5 and included:

- Selection of areas where wells will be installed to provide adequate coverage of the proposed development. The locations of the wells were coordinated with the Client and used the proposed lot fabric for positioning such that the test wells are in suitable locations to become long-term supply wells for the lots;
- After the wells had been drilled, a qualified well contractor licensed with the MECP temporarily installed a pump in each well and disinfected each well in accordance with procedures outlined in the MECP Water Supply Wells: Requirements and Best Practices Manual;
- Constant discharge pumping tests at each of the four wells were completed sequentially.
   Each pumping test was for a minimum of six hours and at a flow rate required to demonstrate adequate water quantity for the proposed use;
- During the pumping tests the water levels in the pumping well and the adjacent wells on the Site were monitored and recorded. The water levels in select existing private wells close to the Site were monitored where permission from the owner was received;

© 2025 Pinchin Ltd. Page 4 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

- One water quality sample was collected from each of the pumping wells during the pumping phase of the constant discharge pumping test. The Sample was collected just prior to cessation of pumping at six (6) hours;
- The water quality samples were submitted to an independent, accredited laboratory for analysis of bacteriological, general inorganic and metal parameters. Results were compared to the Ontario Drinking Water Quality Standards (ODWQS) to assess the quality of the water supply; and
- After the pumping phase of the test is completed the recovery of the water level in each well was monitored.

### 3.0 METHODOLOGY

### 3.1 Constant Discharge Pumping Tests

The Client retained Air Rock Drilling Co. Ltd. (Air Rock), to install four test wells on the Site and to complete the well disinfection, pump installation, and operation for the pumping test work. Dedicated is a licenced well contractor and Site work was completed by licenced well technicians. Water samples were collected by a Pinchin staff member who works under supervision of a registered and practicing professional geoscientist (P.Geo.) in Ontario.

Prior to the pumping test on each well, the well contractor disinfected the well by chlorination as per shock chlorination procedure *Well Regulations – Well Disinfection (Technical Bulletin 1 of 11)*. After approximately 14 to 20 hours of contact time (i.e., the next day) the pumping test was conducted. The pumping test and groundwater sampling event were completed by placing a ¾ hp pump to approximately 5 to 10 m above the bottom of the well. The pump was powered by a portable generator. The pumping rate was controlled by a dedicated flow restrictor that maintained the discharge rate for the duration of the pumping test and the pumped water was discharged to the ground approximately 15 m from the well, in a direction that was observed to slope away from the well head. The pumping rate was selected based on well yield as determined during the 1-hr pumping test completed by the Well Contractor at the time of the well installation and the D-5-5 minimum requirement of 13.75 Lpm and to ensure that the well could sustain the pumping rate for the duration of the pumping test. The duration of the pumping test was 360 mins (6 hrs).

After pumping duration of the test was met, the free chlorine in the groundwater discharge was measured in the field using a Hach DR900 multiparameter portable colorimeter, and if below (0.0 mg/L), Pinchin staff collected a groundwater sample from the well for water quality analysis. If there was still free chlorine in the well, pumping continued until the free chlorine in the groundwater discharge was measured in the

© 2025 Pinchin Ltd. Page 5 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

field, and if below (0.0 mg/L), then a sample was collected. Samples were collected in laboratory supplied, single-use bottles and were stored on ice and delivery to the laboratory for analysis.

To assess the potential for interference from the pumping activities at the wells located at the Site, pumping tests were completed sequentially on the four Site wells. When one of the Site wells was being pumped the water levels in the other three wells on the Site were monitored. Efforts were made to gain permission to monitor water levels using data loggers in private wells near the Site; namely from nearby residents located along Ridgemont Drive, to the east of the Site. Three residents granted permission for their wells to be included in the monitoring program. The locations of the three domestic supply wells included in the monitoring program are shown on Figure 2 and are summarized below:

- 244 Ridgemont Dr. Approximately 130 m northeast of the Site. The well is a drilled well with well tag A309683. Based on well record in the MECP Water Well database this well was installed on March 31, 2021. The well is 43.7 m deep in completed in limestone with layers of shale and sandstone. The estimated well production at the time of well installation was 40.9 Litres per minute (Lpm) and the static water level was 8.95 metres below top of casing (mbtoc).
- 270 Ridgemont Dr. Approximately 95 m east of the Site. The well is a drilled well with well tag
  A309684. Based on well record in the MECP Water Well database this well was installed on
  March 31, 2021. The well is 53.6 meters deep and completed in limestone with layers of
  sandstone. The estimated well production at the time of well installation was 36.4 Lpm and
  the static water level was 9.2 mbtoc.
- 322 Ridgemont Dr. Approximately 65 m east of the Site. The well is a drilled well with well tag
  A296823. A review of the MECP Water Well Database did not locate a well record for this
  well. At the time of the installation of the data logger for the investigation the static water level
  was 10.79 mbtoc.

Groundwater samples were submitted to Caduceon Environmental Laboratories (Caduceon) for the 'D-5-5 Subdivision Suite' including bacterial parameters. Caduceon is an independent laboratory accredited by the Standards Council of Canada and the Canadian Association for Laboratory Accreditation. Formal chain of custody records of the sample submissions were maintained between Pinchin and the staff at Caduceon.

### 3.2 Test Pitting

The Client retained Dedicated Environmental Services Inc. (Dedicated) to complete test pitting as part of the Terrain Assessment portion of this project. Using a mini-excavator, nine (9) test pits were excavated

© 2025 Pinchin Ltd. Page 6 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

to assess depth to bedrock, soil character and saturation conditions. Additionally, ten (10) boreholes were advanced as part of a separate geotechnical investigation which was completed by Pinchin for the Client and dated January 21, 2025, and some of the data gathered in that assessment were considered in this study. The locations of the test pits and boreholes are shown on Figure 2. The test pits were examined by Pinchin staff who logged the soil stratigraphy, recorded depth to bedrock, and collected representative samples. A selection of samples that characterized the soils encountered across the Site were submitted to Malroz Engineering Inc. Laboratory (Malroz Laboratory) for grain size analysis and percolation (T-time) estimate. Malroz Laboratory is a certified laboratory with the Canadian Council of Independent

#### 3.3 QA/QC Protocols

Various quality assurance/quality control (QA/QC) protocols were followed to ensure that representative groundwater samples were obtained, and that representative analytical data were reported by the laboratory.

Field QA/QC protocols that were employed by Pinchin included the following:

- The groundwater samples were placed in laboratory-supplied sample containers;
- Groundwater samples were collected within the last 10 minutes of the pumping test and after ensuring that free chlorine in the groundwater discharge at the well was below field detection (0.0 mg/L). If the free chlorine level was not yet below detection at the end of the scheduled pumping duration, then the pumping continued until the free chlorine in the discharge water was below detection, at which time the sample was collected;
- The groundwater samples were placed in a cooler on ice immediately upon collection, with appropriate sample temperatures maintained prior to submission to the laboratory;
- The soil samples were placed in single use, sealable sampling bags which were placed in a cooler;
- Dedicated and disposable nitrile gloves were used for sample collection; and
- Sample collection and handling procedures were performed in general accordance with the MECP Sampling Guideline, the APGO Guideline and Pinchin's SOPs for groundwater sampling.

#### 4.0 GROUNDWATER SUPPLY - REGULATORY CRITERIA

The wells are for a domestic water supply, as such the analytical results were compared to the Ontario Drinking Water Standards (ODWQS) health related criteria (MAC) and to the ODWQS aesthetic and

© 2025 Pinchin Ltd. Page 7 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

operational criteria (AO and OG) as outlined in MECP Guideline *D-5-5 Private Wells: Water Supply Assessment* (D-5-5).

#### 5.0 RESULTS

The following subsections present the results of the Remedial Excavation. Photographs depicting various aspects of the Remedial Excavation work are included in Appendix III.

### 5.1 Review of Servicing in the Area

No municipal services abut the Site. The closest municipal servicing is located approximately 5 km to the west in Carleton Place. There are no plans to extend this servicing at this time.

There are approximately 40 residential properties present along Ridgemont Dr. which runs northwest - southeast of the site, approximately 7 residential lots along Douglas Side Road, and another approximately 7 residential lots along McArton Road to the north of the Site. These areas, and other individual residences along County Road #26, are serviced by individual water and wastewater systems.

Based on review of servicing in the area it is determined that the most appropriate servicing for the proposed development is individual well and septic.

### 5.2 Review of Potable Water Supply in the Area

The suitability of individual drilled wells for water supply for the proposed development was assessed by reviewing the available water well records within approximately 500 m of the proposed development boundary. The MECP Well Record Database was reviewed, and a total of 40 well records were identified. The well record numbers and locations are shown on Figure 6, and a summary of well characteristics is included as Table 1 in Appendix II along with the individual well records.

The well records indicated that all the wells were drilled wells. Of the 40 well records where lithology was present, all wells terminated within limestone. It is noted that the well records for many of the wells indicated layers of shale or sandstone within the limestone unit. This may represent just shale layers which are not atypical for the limestone in the area or in some cases be indicative of transition to the sandstone unit that underlays the limestone in the area.

The depth of completion for the drilled wells ranged from 15.8 m to 136.4 m, with the average well depth being 43.0 m. The majority (78%) of the wells were completed between 30 m and 60 m below ground surface (mbgs).

© 2025 Pinchin Ltd. Page 8 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Overburden thickness is generally shallow ranging from 0.0 m to 2.9 m. The average thickness for the overburden was 1.1 m and approximately 88% of the well records indicating overburden thickness less than 2.0 m.

Water was first found at depths ranging from 15.8 m to 71.0 m. Approximately 85% of the well records listed the depth of water first found to be in the range of 15 m to 40 m.

Pumping rates recommended by the drillers at the time of well installation were listed on all of the well records. The recommended pumping rates ranged from 22.7 liters per minute (Lpm) to 136.4 Lpm, with an average recommended pumping rate of 54.4 Lpm. These rates are based on short-term testing but demonstrate the variability and typically high yield in the potable water supply in the vicinity of the Site.

#### 5.3 Review of Water Well Records for Site

The well records for the four wells installed on the Site are included in Appendix II. The locations of the wells are shown on Figure 2. The wells were completed by Air Rock Drilling Co. Ltd. (Air Rock), a registered well contractor in Ontario.

For all four of the Site wells the casing was installed to a depth of 12.2 mbgs. This exceeds the minimum depth of casing below ground of 6 m as specified in Regulation 903 (Wells) Section (11.2). The longer casing was chosen based on discussions with Air Rock prior to well construction, Air Rock indicated that, in their experience in the area, longer casings were often used, and in some cases specified. The longer casings do not contravene any aspect of Regulation 903 Wells.

### 5.3.1 Well #1 (A360958)

The well is a drilled well. Steel casing (15.9 cm dia.) was installed to a depth of 12.2 m with a stickup of approximately 0.61 m above ground surface. The annular space was sealed by pressure grouting from ground surface to 12.2 m. The stratigraphy at the well location was described as 0.91 m of sandy clay with stones overlaying limestone bedrock. The well was advanced 29.6 m into the limestone to completion depth of 30.5 m.

Water was found at 20.4 mbgs and 28 mbgs in the limestone unit. The static water level at the time of well completion was 7.74 meters below top of casing (mbtoc).

At the time of well installation the well driller completed a one-hour pumping test at 90.9 Lpm. This rate and duration of testing corresponds to a water taking of approximately 5,454 litres. The recommended pumping rate noted on the well record was 90.9 Lpm. During this pumping test the water level in the well decreased 0.20 m and recovered to the original static level within 3 minutes after pumping was stopped.

© 2025 Pinchin Ltd. Page 9 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

This well meets O. Reg. 903 requirements with respect to construction based on Site observations and review of the well record.

### 5.3.2 Well #2 (A360957)

The well is a drilled well. Steel casing (15.9 cm dia.) was installed to a depth of 12.2 m with a stickup of approximately 0.61 m above ground surface. The annular space was sealed by pressure grouting from ground surface to 12.2 m.

The stratigraphy at the well location was described as 0.91 m of sand and stones overlaying limestone bedrock. The well was advanced 41.8 into the limestone to a completion depth of 42.8 m.

Water was found at 40.5 mbgs in the limestone. The static water level at the time of well completion was 7.13 mbtoc.

At the time of well installation the well driller completed a one-hour pumping test at 54.6 Lpm. This rate and duration of testing corresponds to a water taking of approximately 3,276 litres. The recommended pumping rate on the well record is 54.6 Lpm. During this pumping test the water level in the well decreased 0.67 m and recovered to the original static level within 5 minutes after pumping was stopped.

This well meets O. Reg. 903 requirements with respect to construction based on Site observations and review of the well record.

### 5.3.3 Well #3 (A360960)

The well is a drilled well. Steel casing (15.9 cm dia.) was installed to a depth of 12.2 m with a stickup of approximately 0.61 m above ground surface. The annular space was sealed by pressure grouting from ground surface to 12.2 m.

The stratigraphy at the well location was described as 0.61 m of sand overlaying limestone bedrock. The well was advanced 51.8 m into the limestone to a completion depth of 51.2 m.

Water was found at a depth of 48.8 m and 50.3 m in the limestone unit. The static water level at the time of well completion was 7.13 mbtoc.

At the time of well installation the well driller completed a one-hour pumping test at 90.9 Lpm. This rate and duration of testing corresponds to a water taking of approximately 5,454 litres. The recommended pumping rate noted on the well record was 90.9 Lpm. During this pumping test the water level in the well decreased 0.15 m and recovered to the original static level within 2 minutes after pumping was stopped.

This well meets O. Reg. 903 requirements with respect to construction based on Site observations and review of the well record.

© 2025 Pinchin Ltd. Page 10 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

### 5.3.4 Well #4 (A360959)

The well is a drilled well. Steel casing (15.9 cm dia.) was installed to a depth of 12.2 m with a stickup of approximately 0.61 m above ground surface. The annular space was sealed by pressure grouting from ground surface to 12.2 m.

The stratigraphy at the well location was described as 0.61 m of sand overlaying limestone bedrock. The well was advanced 54.3 m into the limestone to a completion depth of 54.9 m.

Water was found at 23.5 mbgs and 52.7 mbgs in the limestone unit. The static water level at the time of well completion was 5.64 mbtoc.

At the time of well installation the well driller completed a one-hour pumping test at 45.7 Lpm. This rate and duration of testing corresponds to a water taking of approximately 2,742 litres. The recommended pumping rate noted on the well record was 45.7 Lpm. During this pumping test the water level in the well decreased 1.77 m and recovered to the original static level within 20 minutes after pumping was stopped.

This well meets O. Reg. 903 requirements with respect to construction based on Site observations and review of the well record.

Based on review of MECP well records in the area and the four wells installed on the Site as part of this investigation a well depth target of 20 m to 50 m below ground surface in the limestone unit is recommended. Further, the well should only be advanced until adequate yield for the proposed development on the lot is encountered.

### 5.4 Constant Discharge Pumping Tests

The calculation of an appropriate pumping rate for the pumping tests is outlined in Section 4.3.2 of D-5-5, which indicates that the per-person requirement shall be 450 litres per day (Lpd). Peak demand occurs for a period of 120 minutes each day. This is equivalent to a peak demand rate of 3.75 litres per minute for each person. The basic minimum pumping test rate is this rate multiplied by the "likely number of persons per well" which, for a single-family residence, shall be the number of bedrooms plus one. Unless it is otherwise established to MECPs satisfaction, a minimum of four bedrooms shall be used in the calculation. However, regardless of the results of this calculation, this rate shall not be less than 13.7 litres per minute (Lpm). Assuming the dwellings will consist of 4-bedrooms, the calculated equivalent peek demand would be 5 (persons) multiplied by 3.75 Lpm which equals 18.75 litres per minute for 120 minutes. Similarly, the total daily water demand would be 5 (persons) multiplied by 450 Lpd which equals 2,250 L.

Based on short duration pumping tests completed by the well contractor at the time of well constructions

© 2025 Pinchin Ltd. Page 11 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

the wells were noted as very good producers. To impart a perturbation into the aquifer system that would allow for determination of aquifer characteristics and potentially emulate the effect of more than one well in normal use the pumping rate for the constant discharge pumping tests was set at 90.9 Lpm for Wells #1, #2, and #3, and 68.2 Lpm for well 4. The test rates used were 6.6 times the minimum testing rate requirement of 13.7 Lpm (Wells #1, #2, and #3) and 5.0 times the minimum for Well #4. These rates, and the duration of 6 hours of pumping, results in a water taking of 32,724 L at Wells #1, #2, and #3 and 24,552 L at Well #4. These volumes are comparable to the total daily water requirements of approximately 10 to 14 four-bedroom homes. Variation in well response and recovery time is typical of fractured rock aquifers. Review of the well records in the area also show variable well yield. The wells on the Site are considered representative and excellent producers.

The methodology for the pumping tests is described in a previous section. Information specific to schedule and setup of the individual pumping tests are summarized in Table 2 summarized below.

Table 2: Summary Pumping Test Setup for Each Test Well.

Pumping Well ID	Pumping Test Date & Start Time	Pumping Rate (Lpm)	Pumping Duration (minutes)	Monitoring Network: Well ID, Distance, and Direction from Pumping Well			
				Well #2 A360957, 184 m, N.			
				Well #3 A360959, 351 m, W.			
Well #1	25-Oct-2024	90.9 Lpm	360 min	Well #4 A360960, 473 m, W.			
(A360958)	4:00 AM	90.9 Ерш	360 min 322 Ridgemont Dr., 185 m, NE.				
				270 Ridgemont Dr.,244 m, NE.			
				244 Ridgemont Dr., 346 m. SE.			
				Well #1 (A360958), 184 m, S.			
		00.01.55	Well #3 A360959, 374 m, SW.  Well #4 A360960, 541 m, SW.  Well #4 A360960, 541 m, SW.  322 Ridgemont Dr., 318 m, SE.  270 Ridgemont Dr.,175 m, E.	Well #3 A360959, 374 m, SW.			
Well #2	24-Oct-2024			Well #4 A360960, 541 m, SW.			
(A360957)	5:15 AM	90.9 Lpm		322 Ridgemont Dr., 318 m, SE.			
				270 Ridgemont Dr.,175 m, E.			
				244 Ridgemont Dr., 200 m. NE.			
				Well #1 (A360958), 351 m, E.			
				Well #2 A360957, 374 m, NE.			
Well #3	23-Oct-2024	00 0 1	200 :	Well #4 A360960, 189 m, SW.			
(A360960)	5:45 AM	90.9 Lpm	360 min	322 Ridgemont Dr., 560 m, SE.			
				270 Ridgemont Dr.,535 m, E.			
				244 Ridgemont Dr., 569 m. NE.			

© 2025 Pinchin Ltd. Page 12 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Pumping Well ID	Pumping Test Date & Start Time	Pumping Rate (Lpm)	Pumping Duration (minutes)	Monitoring Network: Well ID, Distance, and Direction from Pumping Well		
				Well #1 (A360958), 473 m, E.		
				Well #2 A360957, 541 m, NE.		
Well #4	21-Oct-2024	60 0 1 pm	360 min	Well #3 A360959, 189 m, NE.		
(A360959)	(6:30 AM)	68.2 Lpm	300 11111	322 Ridgemont Dr., 632 m, E.		
				270 Ridgemont Dr., 688 m, NE.		
				244 Ridgemont Dr., 742 m. NE.		

#### 5.4.1 Well #1 (A360958)

A plot of water drawdown during the Well #1 pumping test is included as Figure 7. During the 6 hours of pumping at 90.9 Lpm, a total of approximately 32,724 L of water were pumped from the well. The maximum drawdown observed in the pumping well was to 9.37 mbtoc (a drawdown of 0.16 m from static water level). When pumping stopped, the water level in the well recovered to greater than 95% within 240 minutes. A summary of the pumping test results is included as Table 3 below.

Table 3: Summary of Pumping Test for Well #1 (A360958).

Duration of Pumping Test (min)	Pumping Rate (Lpm)	Static Water Level (mbtoc)	Maximum Drawdown (mbtoc)	Maximum Drawdown (m)	Total volume of water pumped (L)	Recovery in 10 min (%)	Time to 95+% Recovery (min)
360	90.9	9.22	9.38	0.16	32,724	50 %	240 min

### 5.4.2 Well #2 (A360957)

A plot of water drawdown during the Well #2 pumping test is included as Figure 8. During the 6 hours of pumping a total of approximately 32,724 L of water were pumped from the well. The maximum drawdown observed in the pumping well was to 9.10 mbtoc (a drawdown of 0.48 m from the static water level). When pumping stopped, the water level in the well recovered to 93% of static within 60 minutes. A summary of the pumping test is included as Table 4 below.

© 2025 Pinchin Ltd. Page 13 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Table 4: Summary of Pumping Test for Well #2 (A360957).

Duration of Pumping Test (min)	Pumping Rate (Lpm)	Static Water Level (mbtoc)	Maximum Drawdown (mbtoc)	Maximum Drawdown (m)	Total volume of water pumped (L)	Recovery in 4 min (%)	Time to 93% Recovery (min)
360	90.9	8.63	9.10	0.48	32,724	80%	60 min

### 5.4.3 Well #3 (A360960)

A plot of water drawdown during the Well #3 (A360960) pumping test is included as Figure 9. During the 6 hours of pumping a total of approximately 32,724 L of water were pumped from the well. The maximum drawdown observed in the pumping well was to 8.78 mbtoc (a drawdown of 0.07 m from the static water level). When pumping stopped, the water level in the well fully recovered to the original static level 50 minutes. A summary of the pumping test is included as Table 5 below.

Table 5: Summary of Pumping Test for Well #3 (A360960).

Duration of Pumping Test (min)	Pumping Rate (Lpm)	Static Water Level (mbtoc)	Maximum Drawdown (mbtoc)	Maximum Drawdown (m)	Total volume of water pumped (L)	Recovery in 10 min (%)	Time to 100% Recovery (min)
360	90.9	8.71	8.78	0.07	32,724	67%	50 min

### 5.4.4 Well #4 (A360959)

A plot of water drawdown during the Well #4 pumping test is included as Figure 10. During the 6 hours of pumping at 68.2 Lpm a total of approximately 24,552 L of water were pumped from the well. The maximum drawdown observed in the pumping well was to 9.03 mbtoc (a drawdown of 2.21 m from the static water level). When pumping stopped, the water level in the well fully recovered to the original static level 240 minutes (4 hours). A summary of the pumping test is included as Table 6 below.

© 2025 Pinchin Ltd. Page 14 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Table 6: Summary of Pumping Test for Well #4 (A360959).

Duration of Pumping Test (min)	Pumping Rate (Lpm)	Static Water Level (mbtoc)	Maximum Drawdown (mbtoc)	Maximum Drawdown (m)	Total volume of water pumped (L)	Recovery in 15 min (%)	Time to 95+% Recovery (min)
360	68.2	6.83	9.03	2.21	24,552	70%	240 min

### 5.5 Aquifer Characteristics.

In addition to the field pumping test data, analytical interpretation was completed using Aqtesolv software to evaluate aquifer hydraulic parameters. The analysis yielded values of Transmissivity (T) and Storativity (S), and from these results the Hydraulic Conductivity (K) was also calculated.

- Transmissivity (T) represents the ability of the aquifer to transmit water through its entire saturated thickness. Higher transmissivity indicates that the aquifer can sustain higher pumping rates with less drawdown, which is desirable for water supply wells.
- Storativity (S) is a dimensionless parameter that indicates the volume of water an aquifer releases from or takes into storage per unit surface area of aquifer per unit change in head.
- Hydraulic Conductivity (K) describes how easily water can move through the aquifer material. It is calculated as:

$$K = \frac{T}{b}$$

where b is the aquifer thickness (approximated here by the open-hole interval of each well within the limestone). Hydraulic conductivity is a fundamental aquifer property for comparing different locations and assessing long-term water supply sustainability. The calculated values are summarized in Table 7 and Aqtesolv output sheets are included in Appendix III.

© 2025 Pinchin Ltd. Page 15 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

**Table 7: Summary of Aqtesolv Analysis Results** 

Well ID	Analytical Solution Applied	Completion Depth (m)	Open Bedrock Interval (m)*	Transmissivity, T (m²/s)	Storativity, S (-)	Hydraulic Conductivity, K (m/s)
Well #1 A360958	Semi- Confined Hantush (Leaky)	30.5	18.3	0.0060	0.041	3.3 × 10 <sup>-4</sup>
Well #2 A360957	Confined Cooper-Jacob	42.8	30.6	0.0035	0.0007	1.2 × 10⁻⁴
Well #3 A360960	Unconfined Cooper-Jacob	51.2	39.0	0.0016	0.697	4.1 × 10 <sup>-5</sup>
Well #4 A360959	Confined Cooper-Jacob	54.9	42.7	0.0005	0.330	1.2 × 10⁻⁵

<sup>\*</sup> Open bedrock interval calculated as total depth minus casing depth (12.2 m).

### 5.5.1 Discussion of Results

- Well A360960 (Unconfined Cooper-Jacob):
   The unconfined Cooper-Jacob solution provided the best fit, yielding a transmissivity of 0.0016 m²/s (~139 m²/day). The calculated hydraulic conductivity of 4.1E-5 m/s (~3.5 m/day) is moderate for fractured limestone. The storativity value (0.6973) is high, reflecting the release of water from both elastic storage and drainage of pore spaces and fractures typical of unconfined aquifers.
- Well A360958 (Semi-Confined Hantush Solution):
   A leaky aquifer model (Hantush) provided the best fit. The transmissivity of 0.0060 m²/s (~517 m²/day) and a K = 3.3E-4 m/s (~28.7 m/day) indicate a relatively productive interval. The storativity (0.04113) is somewhat higher than would be expected for a fully confined aquifer, consistent with partial confinement.
- Well A360957 (Confined Cooper-Jacob):
   The confined solution Cooper-Jacob solution provided the best fit. The transmissivity of 0.0045 m²/s (~306 m²/day) and a K = 1.2E-4 m/s (~10.0 m/day), with a storativity of 0.0007. These values are typical for a confined fractured limestone aguifer.

© 2025 Pinchin Ltd. Page 16 of 35



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Well A360959 (Confined Cooper-Jacob): A confined solution Cooper-Jacob solution provided the best fit. This well displayed relatively low transmissivity (0.0005 m²/s (~ 43.6 m²/day) and K = 1.2E-5 m/s (~1.0 m/day), suggesting the intersected fractures are less transmissive compared to the other

wells. The storativity of 0.34 is high for a confined aquifer, which may be due to local

partial leakage or imperfect curve-fitting.

The combined results confirm that the aquifer is heterogeneous, with transmissivity values spanning nearly an order of magnitude (0.0005 to 0.006 m²/s) and hydraulic conductivities ranging from approximately 1 m/d to 29 m/day. The variable storativity values are interpreted to further illustrate the degrees of confinement conditions across the site.

From a water supply perspective, these results demonstrate the fractured limestone aquifer is capable of sustaining residential-scale withdrawals. This is further reflective of the high flow rates sustained during the 6-hour pumping test investigations and rapid recovery of the water level in the pumping well.

#### 5.6 Potential for Well Interference

In preparation for the constant head pumping tests letters were distributed to nine homes along the west side of Ridgemont Drive closest to the Site seeking permission to monitor the water level in the residence well using a data logger for the duration of the pumping test portion of the investigation. The addresses where letters were delivered by hand were: 322, 310, 296, 288, 278, 270, 260, 254, and 244 Ridgemont. At five of the addresses a person was present, and the letter was given to them and a brief overview of the testing discussed. Letters were left in the front door for the other addresses. Permission to monitor the water level in the residence well was granted for 322, 270, and 244 Ridgemont Drive. An example of the letter distributed is included in Appendix IV.

During each pumping test the other three wells on the Site were instrumented with data loggers to record the water levels in the wells. Additionally, three nearby domestic supply wells along Ridgemont Dr. were included in the monitoring program. The street address of the domestic supply wells monitored and their distance from the pumping wells are included in Table 2.

The private domestic wells monitored during the test remained in service and short duration drawdown and recovery events can be seen in the data. These events reflect the pumps in the domestic wells coming on to repressurize the water supply system at the residences and are not drawdown resulting from the pumping well activities.

© 2025 Pinchin Ltd. Page 17 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Overall, the amount of drawdown in the monitoring network wells that is attributable to pumping activities was small and ranged from zero (no interaction at all) to a maximum of 0.12 m. Approximately 75% of all the interactions across the four pumping tests were less than 0.05 m of attributable drawdown from pumping activities. Observations regarding potential well interference are summarized below in Table 8.

Table 8: Summary of Findings for Potential Well Interference.

Pumping Well ID	Pumping Rate (Lpm)	Pumping Duration (min)	Monitoring Network: Well ID, Distance and Direction from Pumping Well	Drawdown Attributable to Pumping Activities (m)
			Well #2 A360957, 184 m, N.	0.11
			Well #3 A360959, 351 m, W.	0.03
Well #1	00.01.000	260 min	Well #4 A360960, 473 m, W.	None
(A360958)	90.9 Lpm	360 min	322 Ridgemont Dr., 185 m, NE.	0.11
			270 Ridgemont Dr.,244 m, NE.	0.04
			244 Ridgemont Dr., 346 m. SE.	0.10
			Well #1 (A360958), 184 m, S.	0.12
			Well #3 A360959, 374 m, SW.	0.04
Well #2	90.9 Lpm	360 min	Well #4 A360960, 541 m, SW.	0.02
(A360957)			322 Ridgemont Dr., 318 m, SE.	0.12
			270 Ridgemont Dr.,175 m, E.	0.04
			244 Ridgemont Dr., 200 m. NE.	0.12
			Well #1 (A360958), 351 m, E.	None
			Well #2 A360957, 374 m, NE.	0.02
Well #3	00 0 1	200	Well #4 A360960, 189 m, SW.	None
(A360960)	90.9 Lpm	360 min	322 Ridgemont Dr., 560 m, SE.	0.02
			270 Ridgemont Dr.,535 m, E.	0.04
			244 Ridgemont Dr., 569 m. NE.	0.02
			Well #1 (A360958), 473 m, E.	0.02
			Well #2 A360957, 541 m, NE.	0.02
Well #4	00.01.50	200	Well #3 A360959, 189 m, NE.	None
(A360959)	68.2 Lpm	360 min	322 Ridgemont Dr., 632 m, E.	0.02
			270 Ridgemont Dr., 688 m, NE.	None
			244 Ridgemont Dr., 742 m. NE.	0.02

Plots of drawdown versus time for the monitoring wells are provided as follows:

- Well #1 (A360958), Figure 11a and Figure 11b;
- Well #2 (A360957), Figure 12a and Figure 12b (reduced y-axis);
- Well #3 (A360960), Figure 13a and Figure 13b (reduced y-axis); and
- Well #4 (A360959), Figure 14a and Figure 14b (reduced y-axis).

© 2025 Pinchin Ltd. Page 18 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Additional insight into the response of the aquifer to pumping is present in the plots when it is remembered that the residential well, and wells on neighbouring properties in the vicinity, all remained in service for the duration of the pumping tests. There is very little evidence of pumps coming on for short periods to repressurize water systems. This suggests that normal well use by neighbouring homes is not discernible in the monitoring well. A high-rate pumping test for 6-hrs where the total daily water requirements for on the order of 10 to 14 homes was withdrawn only had a discernible drawdown in the off site well of a few centimeters.

Based on these data no adverse interference between wells on the proposed development and existing domestic supply wells is to be anticipated.

#### 5.7 Groundwater Flow Direction

Water levels in the four Site wells were measured prior to the additional sampling event in September 2025. Figure 15 shows the water levels (masl) and interpreted groundwater contours. Groundwater flow is interpreted to be to the north in the southern portion of the Site. The hydraulic gradient in this area is approximately 0.009 m/m. The groundwater table is relatively flat across the centre of portion of the site with a slight low in the centre-west area. There is a slight increase in the groundwater elevation in the north of the Site at Well #2 with a southward gradient of approximately 0.001 m/m.

### 5.8 Water Supply – Quality

Review of the initial hydrogeological report by the municipality and their peer reviewer commented that an off-Ste private well survey should be conducted in which any issues with the private wells (quantity/quality) in the area be discussed and a raw water sample be collected for analysis. To address this comment, letters seeking permission to sample the private wells and a brief questionnaire was distributed to all homes within 200 m of the Site boundary. An example of the letter is included in Appendix III. The canvasing reached out to a total of 21 homes with 20 of the homes located along the west and east side of Ridgemont Drive and one home located on Douglas Side Road, near the intersection of Douglas Side Road and Ridgemont Drive. Only one resident (235 Ridgemont Drive) granted permission for testing and completed the questionnaire. The resident indicated that they had not had any water quality or quantity issues in the years that they had lived there and that the only water treatment in use was a water softener. Sampling was completed during the week of September 19th. Once the water quality results are received from the laboratory and the water quality results reviewed, the information will be relayed to the municipality.

© 2025 Pinchin Ltd. Page 19 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

The summary of the groundwater analytical results along with the ODWQS Health Related Maximum Allowable Concentration (MAC) and Aesthetic Objective (AO) as well as the Aesthetic Limits as listed in the MECP D-5-5 Guideline are presented in Table 9 in Appendix IV. The laboratory Certificate of Analysis for the groundwater samples is provided in Appendix V. Residual chlorine was measured in the field and confirmed to be below detection prior to collection of the raw groundwater samples prior to cessation of pumping.

### **5.8.1 Well #1** (A360958)

Water quality results for the raw groundwater sample collected from Well #1 (A360958) prior to cessation of the pumping test met the applicable criteria:

### Health Related Parameters (MAC)

• The analytical result for sodium was 39.8 mg/L compared to the Warning Level MAC of 20 mg/L. This health-related limit is a "warning level" only. Exceedance calls for a recommendation that the local Medical Officer of Health be notified in order to alert persons with medical conditions or dietary restrictions.

### Aesthetic Objective (AO) & Operational Guideline (OG) Related Parameters

- The analytical result for manganese was 0.144 mg/L compared to the AO criteria of 0.05 mg/L; and
- The analytical result for hardness exceeded was 343 mg/L compared to the OG of 80-100 mg/L. Hardness did not exceed the AO criteria of 500 mg/L.

The raw water quality is considered good and suitable as a potable water source. If the user finds the elevated hardness to be unpalatable or causes objectional staining, treatment systems such as a water softener could be incorporated into the water treatment system. Treating hardness usually results in a decrease in manganese as well. If sodium levels poise a dietary or medical concern an undercounter reverse osmosis system connected to a dedicated drinking water spigot could be part of the water treatment system.

#### **5.8.2 Well #2** (A360957)

Water quality results for the raw groundwater sample collected from Well #2 (A360957) prior to cessation of the pumping test met the applicable criteria, with the following exceptions:

### Health Related Parameters (MAC)

All analyzed parameters complied with MACs.

© 2025 Pinchin Ltd. Page 20 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

- Aesthetic Objective (AO) & Operational Guideline (OG) Related Parameters
  - The analytical result for hardness was 311 mg/L compared to the OG of 80-100 mg/L. Hardness did not exceed the AO criteria of 500 mg/L.

The raw water quality is considered good and suitable as a potable water source. If the user finds the elevated hardness to be unpalatable or cause objectional staining, treatment systems such as a water softener could be incorporated into the water treatment system.

### **5.8.3 Well #3** (A360960)

Water quality results for the raw groundwater sample collected from Well #3 (A360960) prior to cessation of the pumping test met the applicable criteria:

- Health Related Parameters (MAC)
  - All analyzed parameters complied with MACs.
- Aesthetic Objective (AO) & Operational Guideline (OG) Related Parameters
  - The analytical result for hardness was 357 mg/L compared to the OG of 80-100 mg/L. Hardness did not exceed the AO criteria of 500 mg/L.

The raw water quality is considered good and suitable as a potable water source. If the user finds the elevated hardness to be unpalatable or cause objectional staining, treatment systems such as a water softener could be incorporated into the water treatment system.

### **5.8.4 Well #4** (A360959)

Water quality results for the raw groundwater sample collected from Well #4 (A360959) prior to cessation of the pumping test met the applicable criteria, with the following exceptions:

- Health Related Parameters (MAC)
  - All analyzed parameters complied with MACs.
- Aesthetic Objective (AO) & Operational Guideline (OG) Related Parameters
  - The analytical result for hardness was 385 mg/L compared to the OG of 80-100 mg/L. Hardness did not exceed the AO criteria of 500 mg/L.

The raw water quality is considered good and suitable as a potable water source. If the user finds the elevated hardness to be unpalatable or cause objectional staining, treatment systems such as a water softener could be incorporated into the water treatment system.

© 2025 Pinchin Ltd. Page 21 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

The Municipality's peer reviewer commented that additional water quality analysis was required. The reviewer identified two specific concerns. The first concern was that trace metals including barium and strontium should be assessed, and the second concern, that the presence of Cavanagh Construction located to the south of the Site raised concern for potential impacts that had not been assessed. To address both concerns the four test wells on Site were re-sampled. Resampling was completed by pumping each at 90.1 Lpm for 30 minutes to flush out any stagnant water and ensure that fresh water was collected as the sample. Samples were collected using dedicated bottle supplied by the laboratory. Samples were submitted for analysis of trace metal list, petroleum hydrocarbons fractions F1 through F4 (PHC F1-F4), Benzene, Ethylene, Toluene and Xylenes (collectively referred to as BTEX), and Polycyclic Aromatic Hydrocarbons (PAHs). When the results have been received and interpreted, an updated water quality assessment will be forwarded to the Municipality.

### 5.9 Water Treatment Options

- Preventative Disinfection As a preventative and best management practice it is
  recommended that any water supply system utilizing an individual well as the supply
  source include water disinfection. The most common treatment to meet this
  recommendation is disinfection by UV with appropriate particulate pre-filtration. Such
  systems are readily available.
- Hardness Hardness has an Operational Guideline of 80 to 100 mg/L, a range considered to provide an acceptable balance between corrosion and incrustation and to aid in source selection when applicable. Water supplies with a hardness greater than 200 mg/L are considered poor but tolerable. Hardness in excess of 500 mg/L in drinking water is unacceptable for most domestic purposes however, neither the MECP D-5-5 nor the ODWQS guidance provide an upper limit for treatability. The analytical result for hardness for samples collected from wells ranged from 272 mg/L to 332 mg/L. If the user finds the water unpalatable or wishes to reduce any scaling that may occur, an off-the-shelf water softener solution would readily provide treatment. Such systems are readily available.
- Manganese The Aesthetic Objective (AO) for manganese is 0.05 mg/L. manganese is objectionable in water supplies because it can stain laundry and fixtures black, and at excessive concentrations causes undesirable tastes in beverages. Manganese is present in some groundwaters because of chemically reducing underground conditions coupled with presence of manganese mineral deposits. A water softener is often the best tool for removing manganese. The water softener can handle significant quantities of

© 2025 Pinchin Ltd. Page 22 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

manganese, but it only works well if all the manganese is un-precipitated. Alternatively, there are a variety of filter systems available that may be more effective depending on the overall water chemistry.

A water treatment professional should be consulted for appropriate equipment sizing and treatment options.

Additionally, a letter to the Medical Officer of Health for Leeds, Grenville and Lanark District Health Unit has been issued to notify that sodium concentrations may exceed the ODWQS warning level for persons on sodium restricted diets. A copy of the letter is included in Appendix V.

### 5.10 Site Suitability for In-Ground Wastewater Disposal

Nine test pits were excavated across the Site to investigate the suitability of the Site for in-ground wastewater disposal. On Dec 2, 2024, the test pits excavated by a contractor retained by the Client using a Kubota min-excavator. The test pits were examined by Pinchin staff who logged the soil stratigraphy, recorded depth to bedrock, and collected representative samples. The stratigraphy of the test pits is summarized in Table 10.

Based on the observations made on the 9 test pits, the overburden can be described as shallow with the overburden thickness ranging from 0.15 m to 0.30 m, with the exception of test pit TP-4 which was advanced to 1.98 mbgs and did not encounter bedrock. The limestone bedrock surface has some degree of surficial weathering. The average overburden thickness was approximately 0.44 m. The overburden is a brown silty sand with some gravel. The overburden was loose and damp. Groundwater was not encountered in any of the test pits.

Samples from TP-1, TP-5, TP-7, and TP-8 were submitted to Malroz Engineering Inc. Laboratory (Malroz Laboratory) for grain size analysis and percolation (T-time) estimate. Results of the grain size analysis are included as in Appendix V.

The sample collected from test pit TP-1 (0.05 m to 0.15 m) was comprised of approximately 4% gravel, 64 % sand, and 32% silt and clay. The material was categorized as silty sand with trace gravel. The estimated T-time from the sample was 8 to 20 min/cm.

The sample collected from TP-5 (0.05 m to 0.30 m) was comprised of approximately 14% gravel, 63% sand, 24% silt and clay. The material was categorized as silty Clayey sand with some gravel. The estimated T-time from the sample was 8 to 20 min/cm.

© 2025 Pinchin Ltd. Page 23 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

The sample collected from TP-7 (0.05 m to 0.15 m) was comprised of approximately 15% gravel, 66% sand, and 18% silt and clay. The material was categorized as sand, some gravel, some silt and clay. The estimated T-time from the sample was 8 to 20 min/cm.

The sample collected from TP-8 (0.05 m to 0.30 m) was comprised of approximately 10% gravel, 62% sand, and 28% silt and clay. The material was categorized as silty, clayey sand with some gravel. The estimated T-time from the sample was 8 to 20 min/cm.

For Class IV systems, the Ontario Building Code (OBC) requires a minimum of 900 mm (0.900 m) separation from the base of the gravel layer of the bed to the bedrock (or saturated overburden conditions). This thickness requirement of overburden was only observed in one test pit; TP-4 where bedrock was not encountered above 1.98 m, where excavation stopped.

Table 10: Test Pit Stratigraphy and Observations.

Test Pit ID	Easting	Northing	Interval (mbgs)		Description
			0 -	0.05	Topsoil with grass roots. Dry.
TP-1	415179	5003150	0.05 -	0.15	Brown Silty Sand with small roots. Loose. Dry.
			0.15		Limestone Bedrock. Dry.
			0 -	0.05	Topsoil with grass roots. Dry.
TP-2	415201	5003246	0.05 -	0.20	Brown Silty Sand. Loose. Dry.
			0.20		Limestone Bedrock. Dry.
			0 -	0.05	Topsoil with grass roots. Dry.
TP-3	415065	5065 5003195	0.05 -	0.30	Brown Silty Sand. Loose. Dry.
			0.30		Limestone Bedrock. Dry.
			0 -	0.15	Topsoil with corn stalk. Loose. Dry.
TP-4	414986	5003218	0.15 -	0.30	Brown Silty Sand. Loose. Dry.
117-4	414900	5003216	0.30 -	1.98	Brown Silty Sand. Loose with Gravel. Dry.
			1.98		Bedrock not encountered.
TP-5	111007	5003117	0 -	0.05	Topsoil with small roots. Loose. Damp.
117-5	414997	3003117	0.05 -	0.30	Brown Silty Sand. Loose. Dry.

© 2025 Pinchin Ltd. Page 24 of 35



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Test Pit ID	Easting	Northing	Interval (mbgs)		Description
			0.30		Limestone Bedrock. Dry.
			0 -	0.05	Topsoil with grass roots. Dry.
TP-6	415365	5003468	0.05 -	0.30	Brown Silty Sand. Loose. Dry.
			0.30		Limestone Bedrock. Dry.
	415398	5398 5003369	0 -	0.05	Topsoil with grass roots. Dry.
TP-7			0.05 -	0.15	Brown Silty Sand with small roots. Loose. Dry.
			0.15		Limestone Bedrock. Dry.
			0 -	0.05	Topsoil with grass roots. Dry.
TP-8	415440	5003281	0.05 -	0.30	Brown Silty Sand with small roots. Loose. Dry.
			0.30		Limestone Bedrock. Dry.
			0 -	0.05	Topsoil with grass roots. Dry.
TP-9	415496	96 5003297	0.05 -	0.30	Brown Silty Sand with small roots. Loose. Dry.
			0.30		Limestone Bedrock. Dry.

Notes: Coordinates are in Zone T18. The bold and shaded description indicates the sample was submitted for analysis.

As a component of a geotechnical investigation completed on the Site by Pinchin, ten boreholes were advanced to bedrock across the Site. The locations of the boreholes are shown on Figure 2, and the borehole logs are included in Appendix VII. Based on the borehole logs the depth to bedrock ranged from 0.15 m to 0.61 m, with an average overburden thickness of 0.44 m. Based on the overburden thickness the Site is classified as Hydrogeologically Sensitive.

Guidance from Mississippi Rideau Septic System Office (MRSSO) indicates that the use of a "clay seal" (0.10 m of imported clay material placed over the loading area) and imported sand fill for a "mantle" will be required for sites with less than 0.25 m of unsaturated soil (as defined in 8.1.1.2., Ontario Building Code Compendium, O.Reg. 203/24. Based on these requirements additional material would be needed at some of the lots for Class IV systems. Sizing for lot specific septic systems is not within the scope of this investigation as the system size will be determined by the dwelling size / number of fixtures and location specific percolation testing completed by the septic designer. However, for purposes of demonstrating

© 2025 Pinchin Ltd. Page 25 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

that there is sufficient space on the lots for a Class IV system (and there by sufficient space for a tertiary system which occupies a smaller footprint) a generic leaching bed size of 680 m<sup>2</sup> has been used on the conceptual lot plan.

A tertiary system has system specific design criteria to allow for less imported material, and in some cases a less elevated mound. This may make a tertiary system a preferred cost or space saving approach. A variety of tertiary systems are approved with some specifically designed to be employed in shallow soil conditions. Additional costs associated with tertiary systems may be at least partially offset by the requirement for additional imported material that would be required for a Class IV system to address the shallow overburden conditions. The reduced footprint associated with a tertiary system can also provide more flexibility in location on the lot. A tertiary system also provides a greater overall degree of wastewater treatment and thereby increased protection for the environment.

In general, if sufficient thickness of natural material is present, and OBC and municipal design requirements are incorporated into the system design, then Class IV systems may be adequate for wastewater treatment servicing at the Site. Placement of systems must meet all OBC setbacks. Based on the percolation rates obtained during this investigation, Class IV system beds would require on the order of 680 m² of area for a 4-bedroom single family dwelling. More refined sizing would be calculated by the septic designer based on daily flow calculations made from actual building design plans, but for the purpose of assessing if there is adequate space on the proposed lots for the systems, these estimated areas are sufficient to assess whether sufficient space on the lots is present.

Each proposed lot has sufficient area for a primary septic infiltration bed location. System selection and design are specific to the dwelling design and size which are beyond the scope of this study.

### 5.11 Assessment of Potential for Groundwater Impact by on-Site Sewage System

As noted in previous sections, the Site does not meet the criteria of being classified as not hydrogeologically sensitive based on relatively thin overburden cover. The average overburden thickness at the Site as determined from well drilling and test pitting investigations was 0.44 m. Generally, a minimum of 2.0 m of low permeability overburden is required for a site to be not hydrogeologically sensitive.

The three-step procedure outlined in the MECP guideline: *D-5-4 Individual On-Site Sewage Systems:*Water Quality Impact Risk Assessment was used to assess groundwater impact potential from on-site sewage systems for the proposed development.

The purpose of the assessment is to ensure that the effluent discharges from the individual on-site sewage systems will have a minimal effect on the groundwater and the present or potential use of the

© 2025 Pinchin Ltd. Page 26 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

adjacent property. For the purposes of the D-5-4 Guideline, the Ontario Drinking Water Quality Standards (ODWQS) of 10 mg/L of nitrate-nitrogen is used as an indicator of groundwater impact potential.

The assessment involves a three-step process. The need to advance to the next step depends on not meeting conditions defined in the previous step.

For developments where the lot size for each private residence within the development is one hectare or larger, the risk that the boundary limits imposed by these guidelines may be exceeded by individual systems is considered acceptable in most cases. Developments consisting of lots which average 1 hectare (with no lot being smaller than 0.8 ha), may not require a detailed hydrogeological assessment, provided that it can be demonstrated that the area is not hydrogeologically sensitive. In such circumstances, it is the responsibility of the proponent to obtain a professional analysis from a qualified consultant that the area is not hydrogeologically sensitive. However, the Site is hydraulically sensitive based on overburden thickness that is less than 2.0 m.

It is assumed that attenuative processes within a one-hectare lot will be sufficient to reduce the nitratenitrogen to an acceptable concentration in groundwater below adjacent properties. It should be noted that sufficient attenuative processes may not be present in hydrogeologically sensitive environments, or where there is little water surplus available.

#### 5.11.1 Step 1 – Lot Size Considerations

For developments where the lot size for each private residence within the development is one hectare (ha) or larger, the risk that the boundary limits imposed by these guidelines may be exceeded by individual systems is considered acceptable in most cases.

Based on the conceptual Site design provided by the client, the proposed lot sizes range from approximately 0.40 ha to 1.9 ha. The average lot size is approximately 0.60 ha.

The average lot size is less than 1 ha, and the smallest lot is less than 0.8 ha. The proposed development does not satisfy Step 1, and the assessment must proceed to Step 2.

### 5.11.2 Step 2 - System Isolation Considerations

Where proposed lot sizes are less than one hectare, the proponent and/or the consultant is/are responsible for assessing the potential risk to groundwater. Developments will normally be considered as low risk where it can be demonstrated that sewage effluent is hydrogeologically isolated from existing or potential supply aquifer(s).

Based on the observations made on the 9 test pits, the overburden can be described as shallow with the overburden thickness ranging from 0.15 m to greater than 1.98 m overlaying limestone bedrock. At most

© 2025 Pinchin Ltd. Page 27 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

of the test pit locations the overburden thickness was 0.30 m or less. The overburden does not provide sufficient isolation.

The depth to first water found as reported in the well records for the four Site wells ranged from 15.8 mbgs to 71.0 mbgs. It is noted that the surface of the limestone bedrock may exhibit weathering, but such weathering is thin (on the order of 0.2 m or less) with generally competent rock below. Based on the above observed conditions and the review of the MECP Well Record database it is concluded that, in general, the water-bearing features in aquifers targeted has on the order of greater than 15 m of bedrock isolating it from the surface. While this provides a degree of isolation, it is challenging to defend this alone as sufficient isolation with respect to MECP D-5-4 without site specific intrusive investigations to prove absence of fracture networks that may act as potential contaminant pathways. Therefore, as a conservative approach it is assumed that the thickness of bedrock can not be relied upon as providing adequate isolation.

Step 2 of the assessment of potential for groundwater impact by on-Site sewage system does not meet and the assessment does not need to advance to Step 3.

#### 5.11.3 Step 3 – Attenuation Calculations

Where it cannot be demonstrated that the sewage effluent is hydrogeologically isolated from all existing or potential supply aquifers, a hydrogeologic study is required to assess the risk that the development's individual on-site systems will cause concentrations of nitrate-nitrogen in groundwater to exceed 10 mg/L at the downgradient property boundary. Dilution is considered the only acceptable mechanism for attenuation of nitrate for the purposes of the D-5-4 assessment.

The predictive assessment for the Sites was carried out following the D-5-4 Technical Guideline for Individual On-Site Sewage Systems: Water Quality Risk Assessment (Ministry of the Environment, 1996). Water available for dilution consists of infiltrated precipitation and does not generally include groundwater flow through a site. For use throughout the assessment the Guidelines specify a minimum value of 40 mg/L nitrate in the effluent per household. Additionally, a maximum of 1,000 Liters per day of sewage effluent may be used for dilution. A mass balance calculation, presented below, is used to estimate nitrate concentrations at the property boundary.

$$Q_t C_t = Q_e C_e + Q_i C_i$$

Rearranged as:

$$C_t = \frac{Q_e C_e + Q_i C_i}{Q_t}$$

© 2025 Pinchin Ltd. Page 28 of 35



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

#### Where:

 $Q_t$  = Total Volume  $(Q_e + Q_i)$ 

 $C_t$  = Total concentration of nitrate at the property boundary

 $Q_i$  = Volume of septic effluent

 $C_e$  = Concentration of nitrate in effluent (40 mg/L)

 $Q_i$  = Volume of available dilution water

 $C_i$  = Concentration of nitrate dilution water (0.1 mg/L)

The volume of available dilution water  $(Q_i)$  is calculated by the following equation:

$$Q_i = A \times S \times I$$

#### Where:

A = Area of the SiteS = Water surplusI = Infiltration factor

The water surplus was calculated using the 1991 to 2020 Canadian Climate Normals Data for the Ottawa Airport which is located approximately 35 km northeast of the Site and is the closest location with available data. The average yearly precipitation for this time period was 929.80 millimeters per year (mm/yr). Potential evapotranspiration (PET) was calculated using the Thornthwaite-Mather method. Average PET for the time period was determined to be approximately 603.03 mm/yr. The infiltration factor was based on site specific information and corresponding values obtained from the Ontario Stormwater Management Planning and Design Manual. The infiltration factor and calculated water surplus for the Sites were calculated to be 0.7 considering topography, cover, and soil type. This results in an infiltration value of 282.30 mm/yr at the Site. The lot areas were provided from the conceptual lot plan developed using survey data by the Client's planner. The area of the lots, from which the available dilution ( $Q_i$ ) was calculated, did not include impervious surfaces such as the house, and driveways. The nitrate concentration in one of the Site wells was 1.08 mg/L and that value was used as a conservative background concentration for the calculations.

Based on the above calculations, lot/Site specific information and values obtained from the Guideline D-5-4 there are several lots where the attenuation by dilution is not sufficient to reduce nitrate concentrations of 40 mg/L in the septic effluent to below 10 mg/L at the property boundary. Table 11 summarizes lot number, area, and calculated nitrate concentration at the property boundary. Values that exceed the 10 mg/L ODWQS limit are shown as bold text with shaded background. Detailed calculations for nitrate attenuation by dilution on a lot-by-lot basis are included in Appendix VIII.

© 2025 Pinchin Ltd. Page 29 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Several wastewater treatment options are available for residential applications. These systems allow for smaller leaching bed footprints and increased density of wastewater treatment systems through either passive or active treatment methods.

The OBC describes three levels of treatment units for Class IV treatment systems which correspond to the levels of treatment described in CAN/BNQ 3680-600 standard (the Standard) for Onsite Residential Wastewater Treatment Technologies. In addition to levels of treatment for suspended solids and carbonaceous biochemical oxygen demand, the Standards outline separate classes for treatment thresholds for fecal coliforms and E.Coli., total phosphorus and nitrogen which are excluded from the OBC. Of these classes, two reflect the filtration ability of nitrogen as follows:

- A Class "N-1" system is one for which total nitrogen is reduced by 50%; and
- A Class "N-II" system is one for which total nitrogen is reduced by 75%.

The nitrate attention by dilution calculations were completed for both Class N-I and Class N-II reduced nitrate concentrations. These results are included in Table 11 and detailed calculations for nitrate attenuation by dilution on a lot-by-lot basis are included in Appendix VIII.

Table 11: Summary of Nitrate Attenuation by Dilution Calculations

		Nitrate Concentration in Sewage (mg/L)			
LOT	Area (m²)	40	20	10	
		Nitrate Concentration at lot Boundary (mg/L)			
1	5,590	9.06	5.11	3.13	
2	5,662	8.97	5.07	3.11	
3	5,344	9.36	5.26	3.21	
4	19,233	3.73	2.45	1.81	
5	6,927	7.72	4.44	2.80	
6	4,343	10.91	6.03	3.59	
7	7,108	7.57	4.37	2.77	
8	5,418	9.27	5.21	3.19	
9	6,391	8.20	4.68	2.92	
10	5,195	9.56	5.36	3.26	
11	5,008	9.82	5.49	3.32	
12	5,917	8.68	4.92	3.04	
13	5,899	8.70	4.93	3.05	
14	6,347	8.24	4.70	2.93	
15	4,781	10.16	5.66	3.41	
16	5,205	9.55	5.35	3.26	

© 2025 Pinchin Ltd. Page 30 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

		Nitrate Concentration in Sewage (mg/L)		
LOT	Area (m²)	40	20	10
		Nitrate Concentration at lot Boundary (mg/L)		
17	4,094	11.39	6.27	3.71
18	4,156	11.26	6.21	3.68
19	4,670	10.34	5.75	3.45
20	5,320	9.39	5.28	3.22
21	4,538	10.56	5.86	3.51
22	4,049	11.48	6.32	3.74
23	4,104	11.37	6.26	3.71

From Table 11 it can be seen that 8 of the proposed lots (lots 6, 15, 17, 18, 19, 21, 22, and 23) will require enhanced treatment to the level of at least a Class "N-1" system (for which total nitrogen is reduced by 50%) to meet ODWQS for nitrate concentration at the property boundary.

With the above considerations for enhanced treatment for the listed lots, the Site is suitable for in-ground wastewater disposal based on overburden character and Water Quality Impact Risk Assessment as per D-5-4.

### 5.12 Considerations Regarding Secondary Units

In recent years secondary units, sometimes referred to as Additional Residential Units (ARUs) or coach houses, have become a relatively common approach to provide greater use of development area. For sites on individual servicing (well and septic) this can require consideration in lot design or servicing either at the early stages of development planning or potentially additional studies at a later time (or both). For the proposed Douglas Landing development there are both general Site characteristics and individual lot characteristics that can inform the appropriateness of secondary units and the needs for additional efforts.

#### 5.12.1 Water Supply

Based on the testing of the four wells on the Site it is concluded that there is abundant groundwater to supply secondary units. Some variation in yield is noted but that is to be expected in a fractured bedrock system. As noted in earlier sections of this report, the flow rate and test duration used in the pumping tests results in water takings that were on the order of the daily flow requirements for 10 to 14 4-bedroom homes. The wells recovered quickly when pumping ceased. It is concluded that there is abundant water available and that a single well on a lot can be expected to supply sufficient flow to meet both peak demands and daily water requirements for both a primary and secondary unit. However, the well on each lot should be tested to ensure that the well can meet the needs of the specific primary and secondary unit

© 2025 Pinchin Ltd. Page 31 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

flow. The testing should conform to the MECP D-5-5 testing procedures with the minimum 6-hour duration and a flow rate calculated to the flow requirements of that specific lot.

#### 5.12.2 In-ground Wastewater Disposal

The site is hydrogeologically sensitive, primarily due to the thin overburden. While the separation from the water bearing units at depth in the bedrock does provide a degree of aquifer isolation it is not quantified. Nitrate attenuation by dilution was evaluated to assess the potential for groundwater impact. It was determined that several of the smaller lots (lots 6, 15, 17, 18, 19, 21, 22, and 23) did not meet the requirements of nitrate attenuation by dilution with septic effluent strength of 40 mg/L and that enhanced treatment to a minimum of at least a Class "N-1" system would be required.

Lot capacity for in-ground wastewater disposal for a secondary unit should be evaluated on a lot-by-lot basis where the required septic sizing is determined from the combined daily flow values for the primary and secondary dwelling units. A separate infiltration area for the secondary unit may be an appropriate approach if lot layout and total infiltration area geometry are problematic. As a conservatism, enhanced treatment to a minimum of at least a Class "N-1" system should be required for any lot where a secondary unit it to be included.

### 5.13 Secondary Unit Sizing

Secondary units should conform with sizing criteria of the municipality. With respect to potable water demand and in-ground wastewater disposal a good guideline is that the secondary unit should be limited to lesser of 60% of the square footage of the primary unit or to a maximum of the equivalent flow requirements of a 2-bedroom dwelling.

### 6.1 Conclusions and Recommendations

Municipal or communal servicing options are not available to the location of the proposed development. Residential dwellings in the area are serviced by individual wells and in-ground wastewater treatment systems. Individual wells and in-ground wastewater treatment systems are a suitable servicing approach for the proposed development.

The test wells Disinfection of the raw water supply from each well is recommended and is most commonly addressed by a UV-system or chlorination with appropriate pre-filtration. Such systems are readily available. Hardness in the raw water can be expected to exceed the ODWQS operational guideline of 100-150 mg/L but be considerably below 500 mg/L and within a range that is easily treatable with a water softener. If the user finds the hard water unpalatable or has concerns on scale buildup, hardness can be easily treated with a water softener.

© 2025 Pinchin Ltd. Page 32 of 35



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

With respect to in-ground wastewater disposal, the proposed lot sizes are suitable for the proposed development and provide sufficient space for septic bed location for Class IV type systems. The areas required if tertiary wastewater treatment systems are used would be notably reduced.

The Site is hydrogeologically sensitive. Based on lot size and adequate aquifer isolation not being present the potential for septic impacts was assessed through Step 3 of the MECP D-5-4 Guidline. In general, Class IV systems are suitable for the for the in-ground wastewater disposal at the Site. However, lots 6, 15, 17, 18, 19, 21, 22, and 23 did not meet the requirements of nitrate attenuation by dilution with septic effluent strength of 40 mg/L and that enhanced treatment to a minimum of at least a Class "N-1" system would be required.

It is Pinchin's professional opinion that:

- 1. Potable water and wastewater servicing is the most appropriate approach for servicing the proposed development;
- 2. The Site is considered hydrogeologically sensitive due to thin soil cover;
- 3. The water supply wells installed on the Site demonstrate that the aquifer is capable of providing sufficient quantity of water for the proposed residential development. A well target depth 20 to 50 meters is recommended and that the well be terminated once sufficient yield is encountered;
- 4. Water quality is good, but if the user finds the hardness or manganese to be unpalatable or problematic, then treatment by way of a simple water softener or filter systems may effectively address this condition. Sodium exceeded the 20 mg/L warning level at one of the four Site wells. If sodium levels pose a dietary or medical concern, an undercounter reverse osmosis system connected to a dedicate drinking water spigot could be part of the water treatment system;
- 5. A letter to Dr. Piotr Oglaza, Medical Officer of Health and CEO for the South East Health
  Unit has been issued to notify that sodium concentrations may exceed the ODWQS
  warning level for persons on sodium restricted diets. It is further recommended that the
  Township include the sodium notification on the Notice of Title;
- 6. No unacceptable adverse interference is expected to surrounding groundwater users from the proposed development;
- 7. There is adequate space for Class IV in-ground wastewater disposal beds for all proposed lots. However, because of the thin soil cover guidance from Mississippi Rideau

© 2025 Pinchin Ltd. Page 33 of 35

Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

Septic System Office (MRSSO) indicates that The use of a "clay seal" (0.10 m of imported clay material placed over the loading area) and imported sand fill for a "mantle" will be required for sites with less than 0.25 m of unsaturated soil (as defined in 8.1.1.2., Ontario Building Code Compendium, O.Reg. 203/24);

- 8. MECP D-5-4 Step Three assessment of potential aquifer impacts was assessed by natural attenuation calculations which indicated that lots 6, 15, 17, 18, 19, 21, 22, and 23 did not meet the requirements of nitrate attenuation by dilution with septic effluent strength of 40 mg/L and that enhanced treatment to a minimum of at least a Class "N-1" system would be required.
- 9. The Site is, in general, suitable for secondary units but assessment of well capacity and space for in-ground wastewater disposal must be assessed on a lot-by-lot basis by confirming the well on the lot can supply the combined flow for both the primary and secondary units and that there is sufficient space on the lot for the total required septic field area. Well testing is required to confirm to the D-5-5 pumping test protocol, using a pumping rate at least equal to the total peak flow and daily water servicing requirements for both the primary and secondary units. At minimum a Class "N-1" wastewater treatment system is required for any lot where a secondary unit it to be included.
- Secondary units should be limited to lesser of 60% of the square footage of the primary unit on the lot or to a maximum of the equivalent flow requirements of a 2-bedroom dwelling.

#### 6.0 TERMS AND LIMITATIONS

This Servicing Options Statement, Terrain Assessment and Hydrogeological Study in Support of Development – Revised Report was performed for Douglas Landing Developments (Client) in order to fulfill the hydrogeological-related requirements as identified by the municipality.

Conclusions derived are specific to the immediate area of study and cannot be extrapolated extensively away from a sample location. Samples have been analyzed for a set of parameters as specified in the MECP Guideline D-5.

No environmental assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions on a property. Performance of this Servicing Options Statement, Terrain Assessment and Hydrogeological Study in Support of Development – Revised Report is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions on the Site.

© 2025 Pinchin Ltd. Page 34 of 35



Part Lot 25, Concession 12, Beckwith Township, Ontario Douglas Landing Developments

September 22, 2025 Pinchin File: 283258.005 REVISED

This this Servicing Options Statement, Terrain Assessment and Hydrogeological Study in Support of Development – Revised Report was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site.

This report was prepared for the exclusive use of the Client, subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

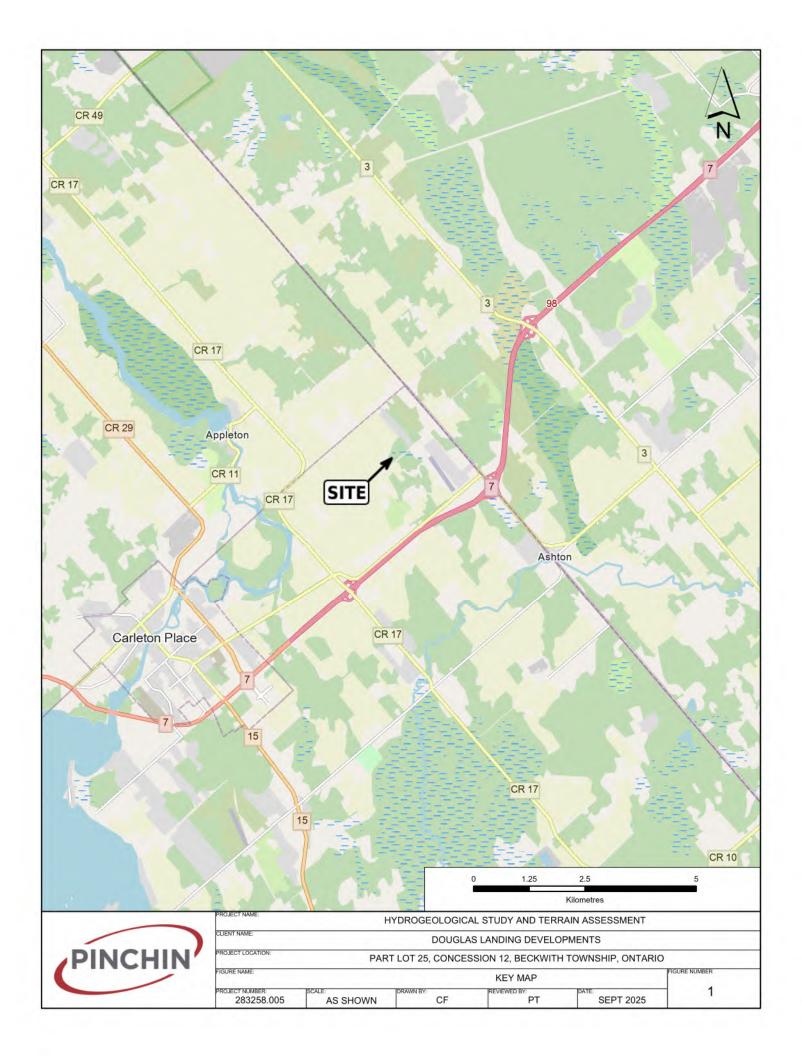
Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

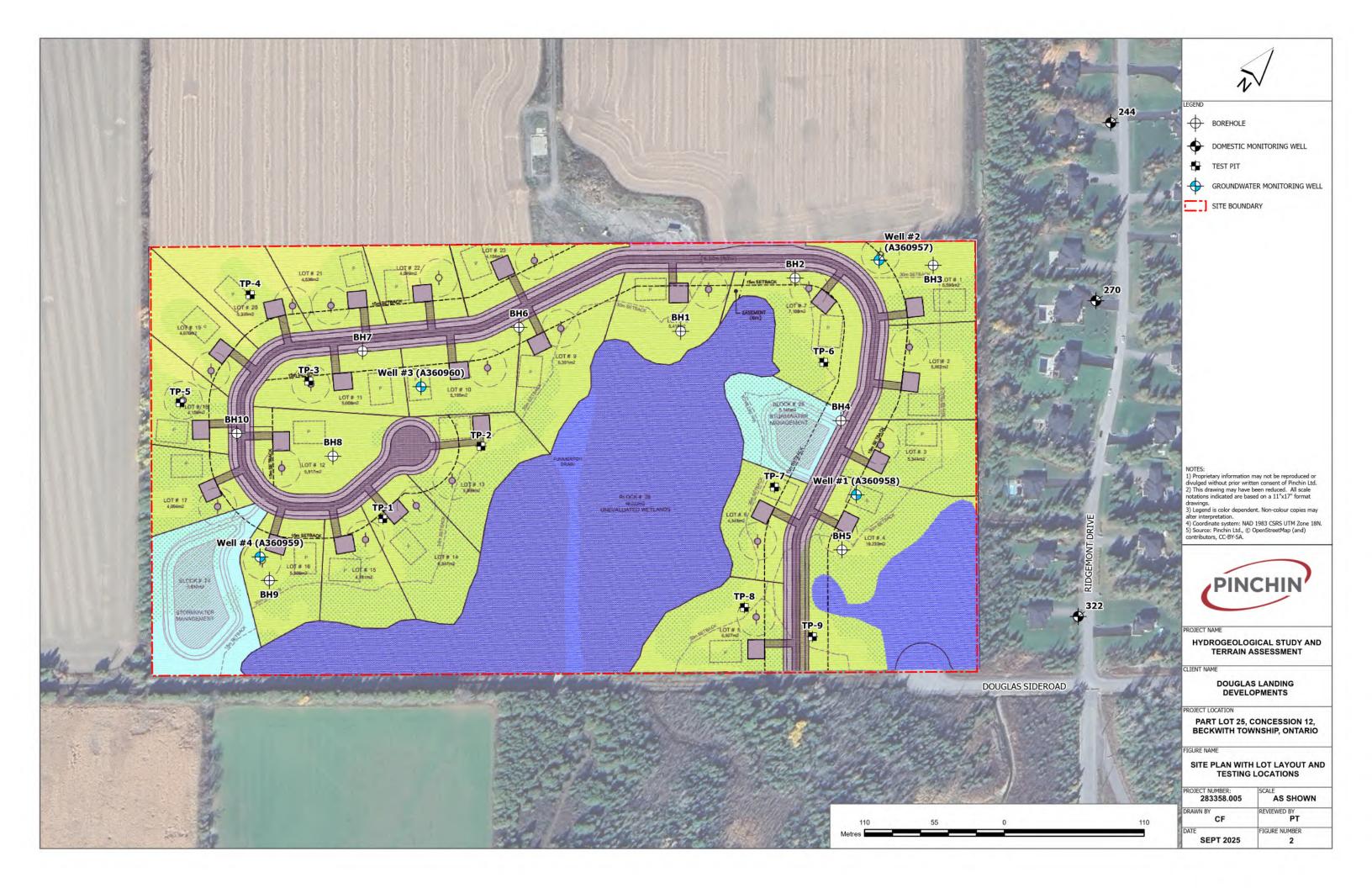
\\pinchin.com\kgn\Job\283000s\0283258.000 GillianEspie,9243McArtonRd,Ott,GEO,ASSMT\0283258.005 GillianEspie,9243McArtonRd,Ott,EDR,Hydro\Deliverables\283258.005 Servicing, Terrain and Hydrogeo Study Lot25Con12 BeckwithTwsp DOUGLAS LANDING.docx

Template: Master Report for Remedial Excavation, EDR, July 22, 2024

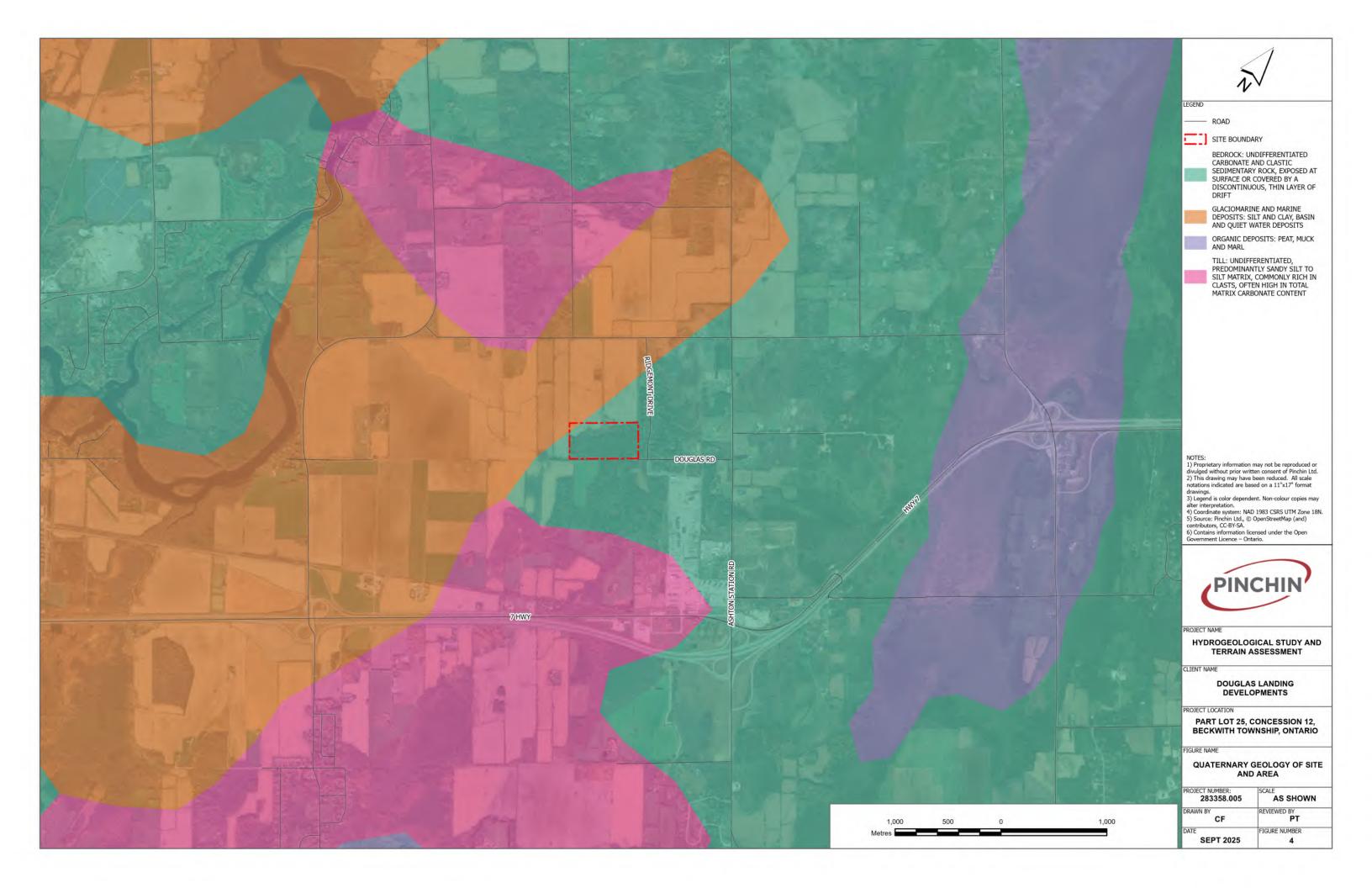
© 2025 Pinchin Ltd. Page 35 of 35

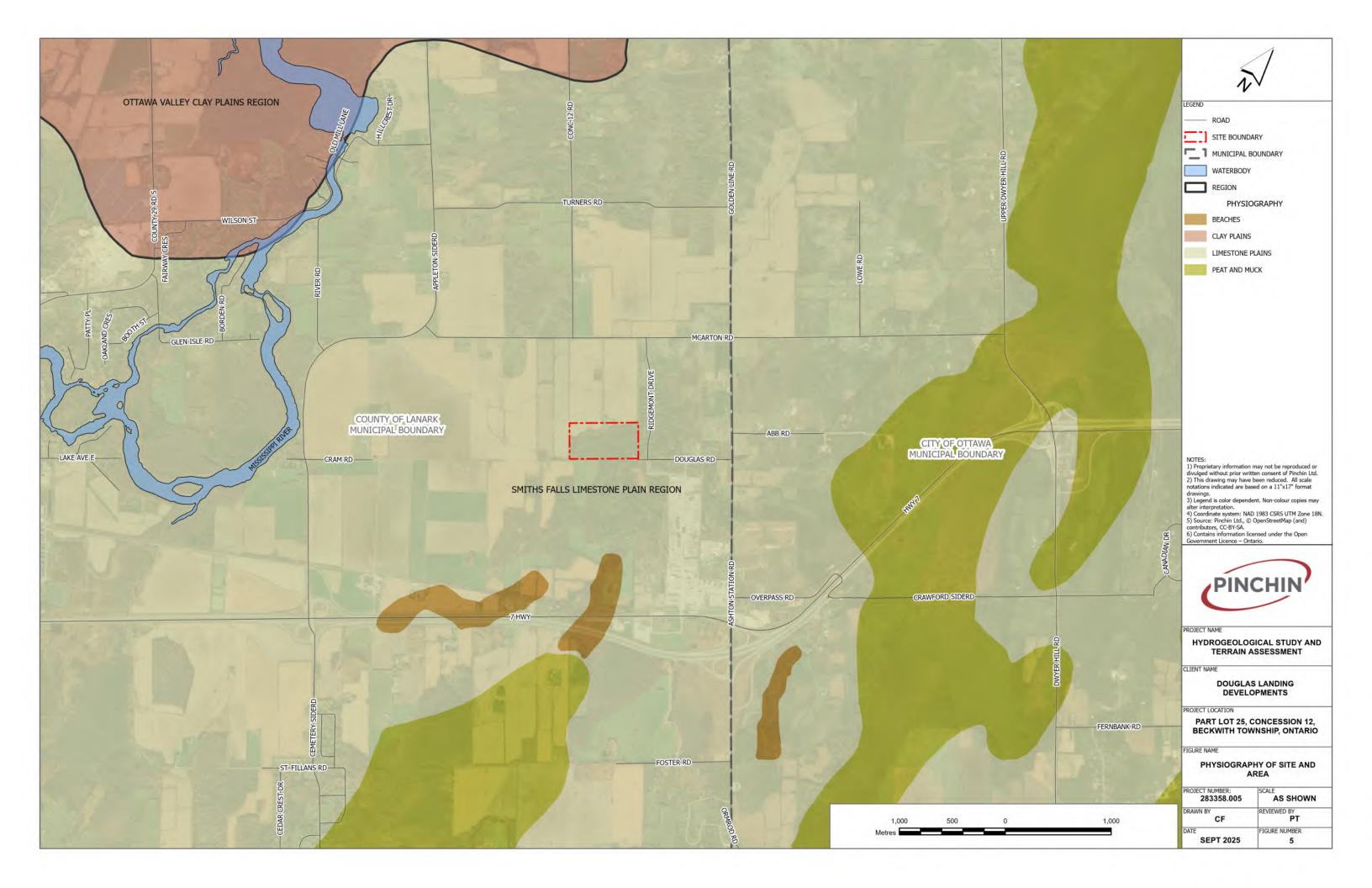
APPENDIX I Figures



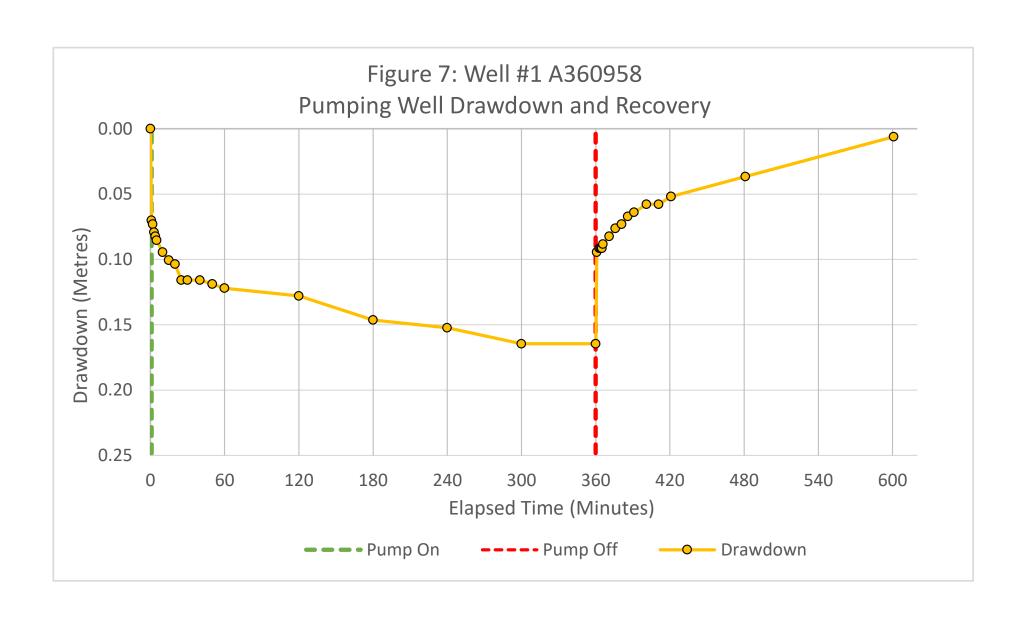


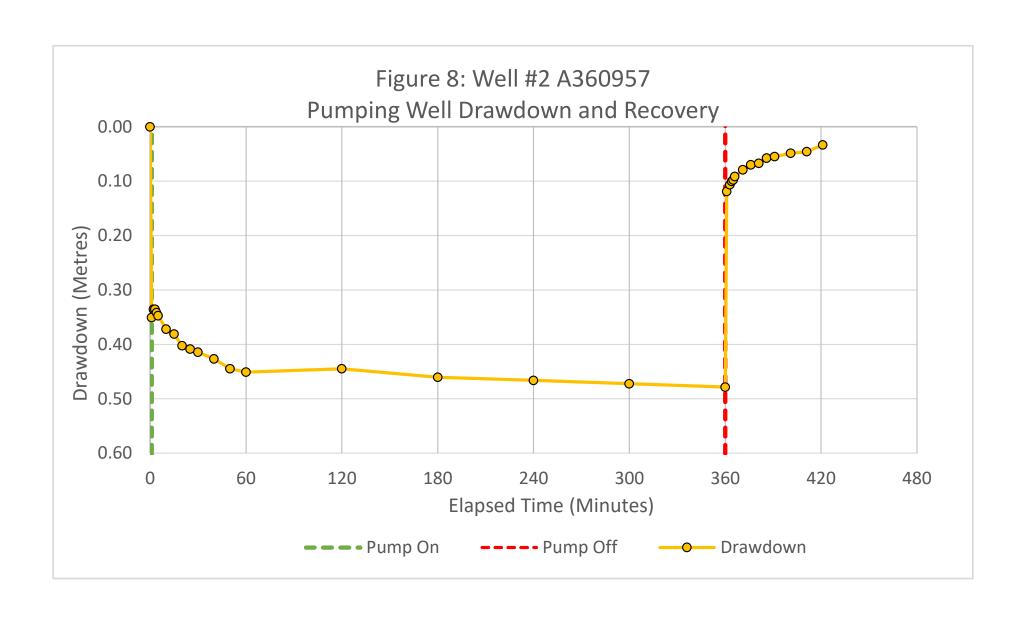


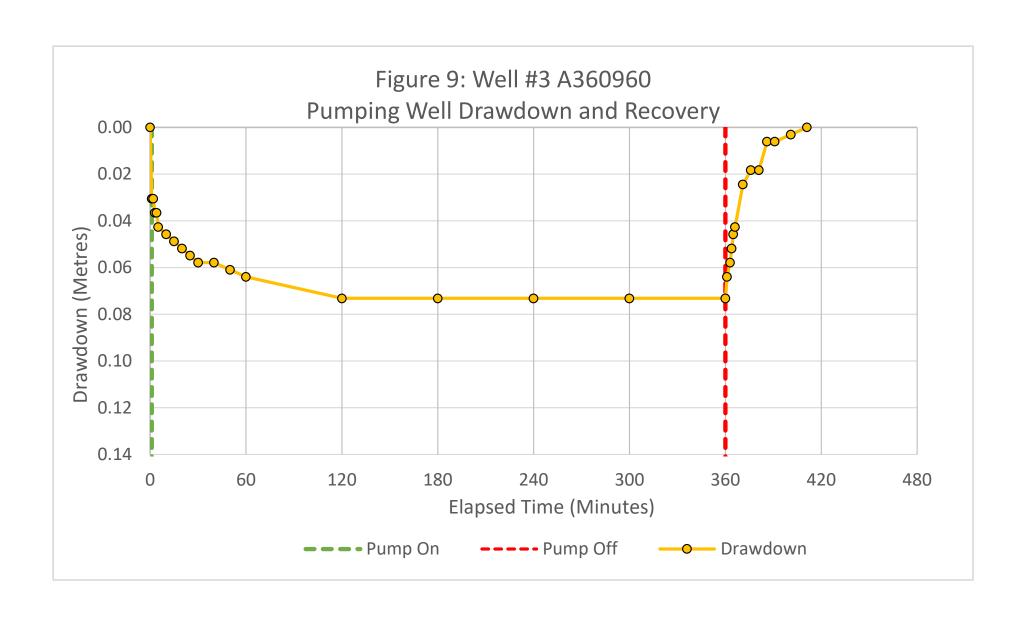


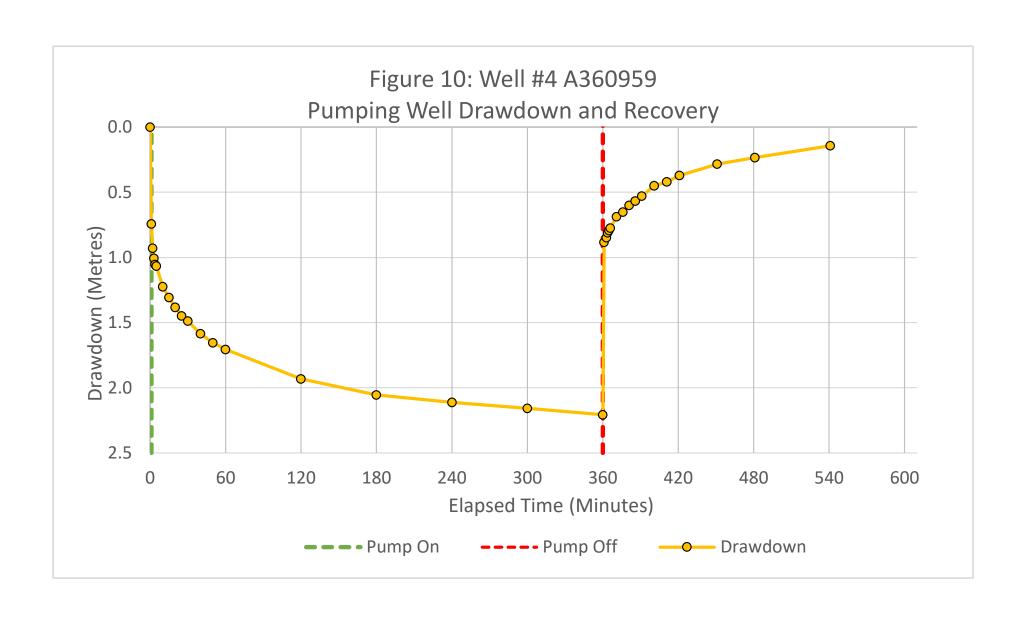


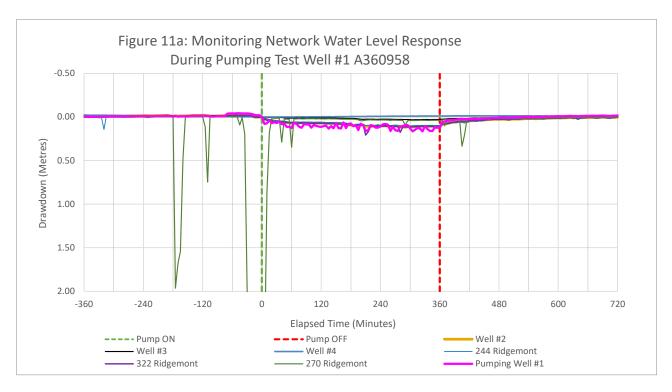


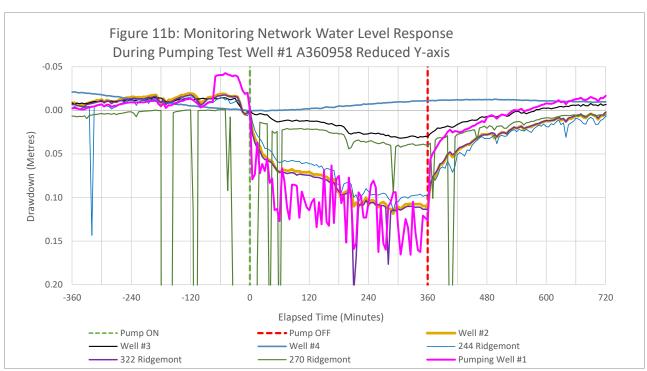


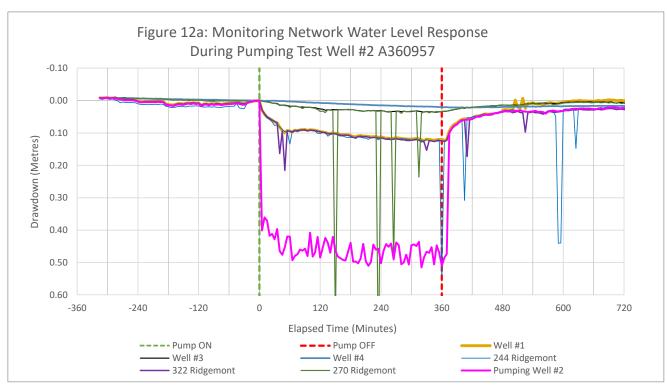


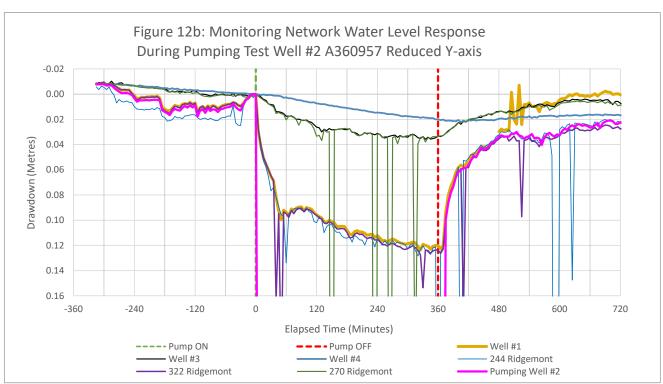


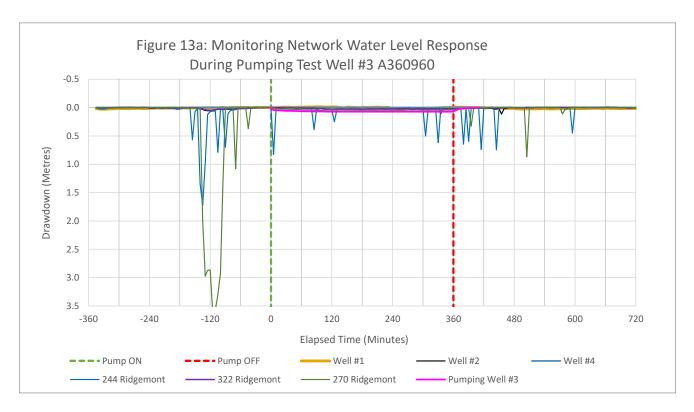


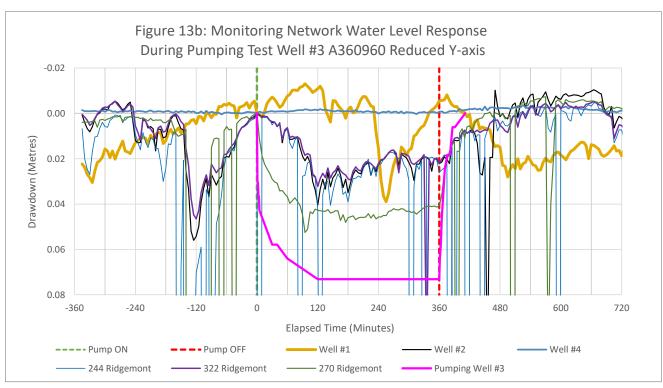


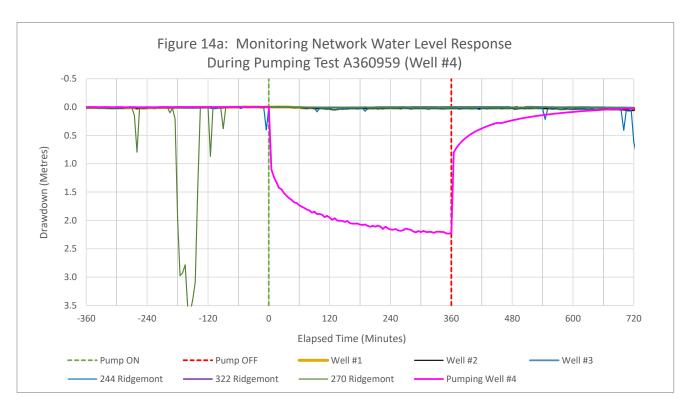


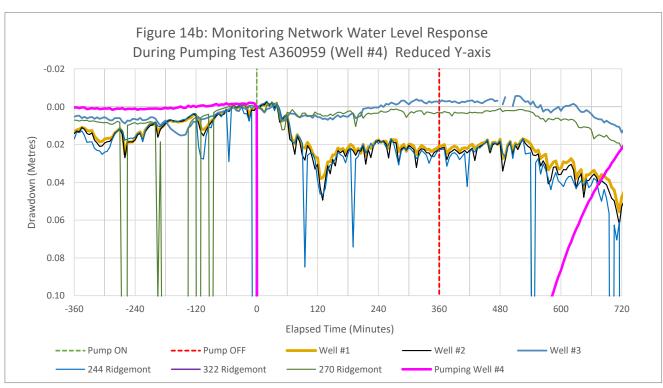


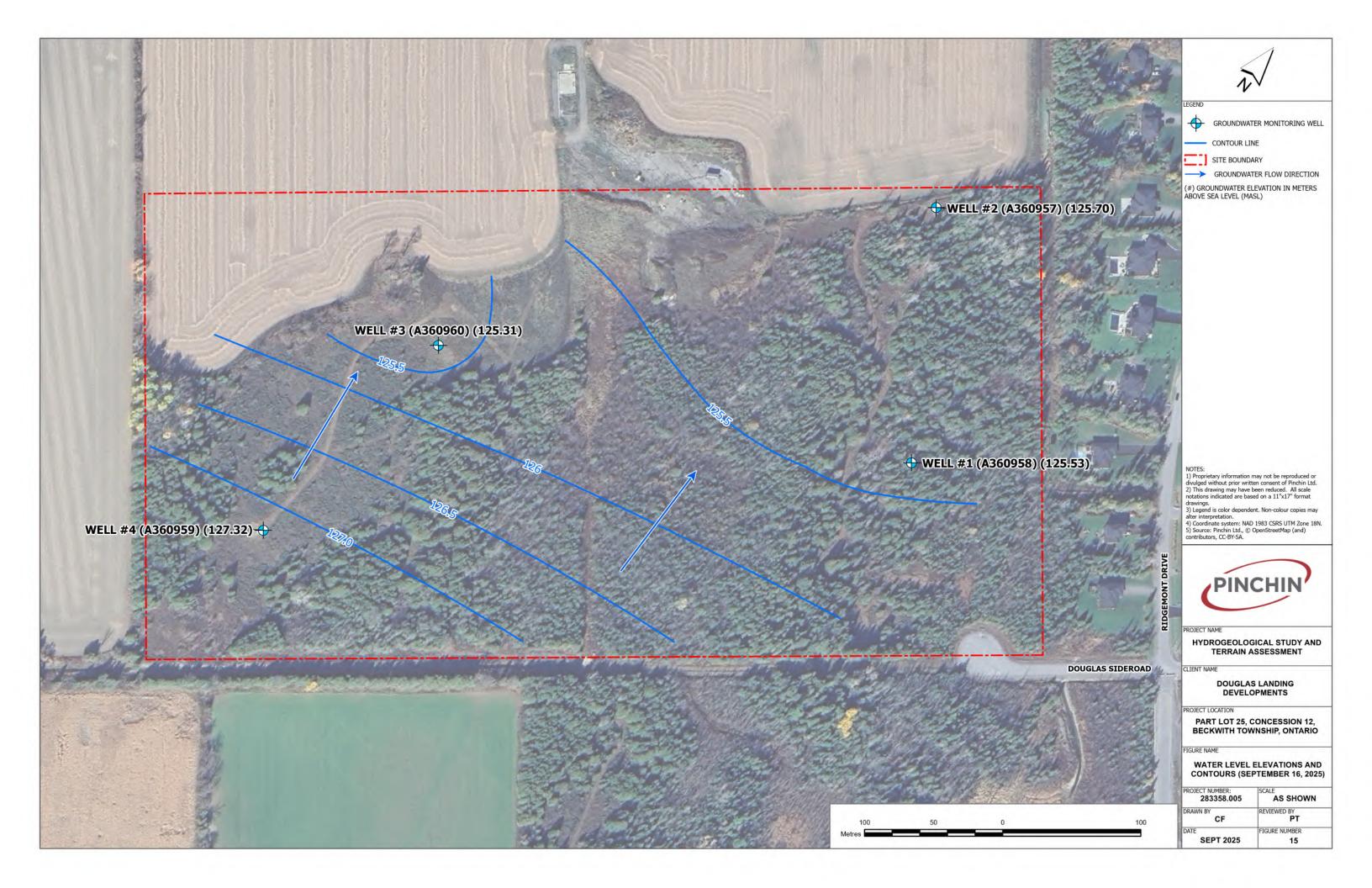












APPENDIX II
Well Records

# $\label{thm:thm:thm:condition} \textbf{TABLE 1}$ Summary of Supply Well Characteristics for Wells within ~500 m of the Site

# Douglas Landing Developments Part Lot 25, Concession 12, Beckwith Township, Ontario

Well Record I.D.	Well Tag Number	Audit Number	Well Type	Well Depth (m)	Overburden Thickness (m)	Unit(s) Well Completed In	Recommended Pumping rate (LPM)	Date of Completion (yyyy-mm-dd)	Wa	ter Foun (m)	d at
3500537	N/A	N/A	Drilled	18.0	0.91	Limestone	45.5	1958-10-09	16.8		
3506860	N/A	N/A	Drilled	18.6	0.61	Shale	81.8	1984-06-14	16.5		
3508494	N/A	41124	Drilled	38.1	0.91	Sandstone	22.7	1988-09-02	36.6		
3508646	N/A	44884	Drilled	16.8	2.10	Limestone	36.4	1988-12-12	16.2		
3509344	N/A	73407	Drilled	15.8	2.40	Limestone	36.4	1990-05-30	15.8		
3509543	N/A	73442	Drilled	28.00	0.61	Limestone	136.4	1990-10-13	25.0	28.3	
3511611	N/A	153198	Drilled	37.5	0.61	Limestone	22.7	1995-10-30	34.1		
7183286	A127986	Z128553	Drilled	73.2	1.83	Limestone / Sandstone	90.9	2012-05-31	71.0		
7183288	A128058	Z128554	Drilled	55.2	0.91	Limestone / Sandstone	90.9	2012-05-08	52.1		
7183289	A128068	Z128555	Drilled	75.3	0.91	Limestone / Sandstone	90.9	2012-05-09	51.8	73.2	
7183290	A128066	Z128556	Drilled	55.2	1.22	Limestone / Sandstone	90.9	2012-05-09	50.3	52.4	
7183291	A128062	Z128557	Drilled	43.3	1.22	Limestone / Sandstone	90.9	2012-05-09	23.5	36.9	40.2
7268601	A195938	Z223093	Drilled	42.4	1.07	Limestone / Sandstone	45.5	2016-06-20	27.7	38.1	
7268602	A195941	Z223094	Drilled	30.5	0.91	Limestone / Sandstone	54.6	2016-06-21	27.1	30.2	
7268603	A195942	Z223095	Drilled	42.4	0.00	Limestone / Sandstone	27.8	2016-06-23	25.3	42.4	
7271813	A195956	Z223096	Drilled	42.4	0.00	Limestone / Sandstone	36.4	2016-09-06	42.4		
7279392	A195975	Z243269	Drilled	73.2	0.00	Limestone / Sandstone	68.2	2017-01-05	38.7	71.6	
7281316	A213224	Z243284	Drilled	39.6	2.10	Limestone	22.7	2017-01-31	35.8		
7288275	A213226	Z260669	Drilled	42.7	1.72	Limestone / Shale layers	40.9	2017-05-11	21.3	39.6	
7288276	A213245	Z260668	Drilled	42.7	1.22	Limestone	36.4	2017-05-12	39.3		
7288277	A213227	Z260670	Drilled	42.7	1.68	Limestone / Shale layers	54.6	2017-05-13	25.1	40.4	
7298154	A227986	Z260689	Drilled	42.7	1.37	Limestone / Shale layers	31.8	2017-10-10	24.4	42.7	
7298155	A227987	Z260700	Drilled	36.6	0.91	Limestone / Shale layers	45.5	2017-10-10	25.3	32.9	
7298156	A213255	Z260690	Drilled	36.6	1.98	Limestone / Shale layers	68.3	2017-09-29	19.2	28.0	
7308479	A228006	Z260717	Drilled	54.9	0.61	Limestone / Shale layers	68.3	2018-03-07	39.0	52.3	
7325842	A252424	Z292769	Drilled	54.9	0.61	Limestone / Shale layers	45.5	2018-12-10	25.3	36.6	
7325843	A252425	Z292768	Drilled	36.6	0.46	Limestone / Shale layers	54.6	2018-12-09	25.6	32.0	
7332598	A252405	Z292766	Drilled	61.0	0.00	Limestone	36.4	2019-04-15	23.8	56.1	
7349971	A276761	Z318977	Drilled	37.8	2.44	Limestone / Sandstone layers	45.5	2019-12-04	26.5	34.7	
7352342	A276752	Z318991	Drilled	30.2	1.37	Limestone / Shale layers	54.6	2019-12-19	25.8		
7352343	A276739	Z318976	Drilled	54.9	0.91	Limestone / Sandstone layers	36.4	2019-11-11	24.4	30.5	
7352438	A276753	Z318978	Drilled	48.8	1.22	Limestone	31.8	2019-12-10	20.7	33.2	45.1
7356155	A276774	Z334321	Drilled	36.6	0.00	Limestone / Sandstone layers	63.6	2020-03-12	25.3	32.9	
7363398	A296816	Z334345	Drilled	48.8	0.91	Limestone / Sandstone	68.2	2020-07-01	32.8	46.6	
7363399	A296814	Z334339	Drilled	48.8	1.22	Limestone / Sandstone layers	36.4	2020-07-02	23.5	29.9	42.1
7371206	A296837	Z349864	Drilled	54.9	1.83	Limestone	40.9	2020-09-30	27.1	48.8	
7384451	A309683	Z349898	Drilled	42.7	1.22	Limestone / Sandstone layers	40.9	2021-03-31	23.5	25.6	36.6
7384452	A309684	Z349906	Drilled	53.6	2.90	Limestone / Sandstone layers	36.4	2021-03-31	50.6		
7384453	A309682	Z349899	Drilled	30.5	1.52	Limestone / Sandstone layers	90.9	2021-03-31	20.4	28.0	
7390397	A309702	Z361794	Drilled	36.6	0.15	Limestone / Shale layers	54.6	2021-06-05	18.6	29.9	
Site Wells											
7451625	A360958	Z394524	Drilled	30.5	0.91	Limestone	90.9	2023-03-02	20.4	28.0	
7451628	A360957	Z394525	Drilled	42.7	0.91	Limestone	54,6	2023-03-02	40.5		
7451627	A360960	Z394526	Drilled	51.8	0.61	Limestone	90.9	2023-03-01	48.8	50.3	
7451626	A360959	Z394527	Drilled	54.9	0.61	Limestone	45.7	2023-02-28	23.5	52.7	

1 of 1 283258.001

Onta Measurer	ments reco	rded in:	Metric N	mperial		A360958					Page		of
TON DAMES	wner's Inf					10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Service Service		
First Nam	ne	1	ast Name/C	Organizatio Gillia	n Espie			E-mail Address	3				Constructed ell Owner
		et Number/Nar				Municipality		Province	Postal Cod		Telephone !	-	
	and the second	Crescent		,		Kanata		ON	K2N	2W	5		
Well Loc	Carlotte Control	tion (Street Nur	phor/Name)			Township			Lot		Concession		
		Ramsay		sion 1	2	Beckwith	1		P/L	25	12		
	istrict/Munici	ipality				City/Town/Village	1			Provin		Posta	Code
	nark ordinates Zor	ne . Easting	. N	orthing		Ashton Municipal Plan ar	nd Subjet Nu	ımber		Ont	al 10		
		18 4154	CONTRACTOR OF THE PARTY OF THE	5003	394			_ (	000 #	-1	D 4	_	
Overbur	den and Be	edrock Materi	als/Abando	onment S	ealing Red	cord (see instruction	ons on the ba	ck of this form)		A-Providing	0		
General (	Colour	Most Comr	non Material	-	0	ther Materials		Ge	neral Descriptio	n		From	th (max)
			Sand	Y	lay	, 6	-	+ 864	res .	to at	24	0 /	3 '
Grey	-	freen		stone	,							3/	67 /
Grey		reen	Lime	stone								67 /	92/
Grey	46	reen	Lime	stone								92 ′	100
													_
							,	1		1			
		1	-	1	NI	11	A-	7	17 6	+		-	
ontra artic		- 4	Annular	Snaan	102	u	7	1 0	Decelle of 16	(-II-VC-1	47-21-21	2847 AS . 50	180,000 000000
Depth S	Set at (mff)	1	Type of Sea	******		Volume Pla	aced Af	fter test of well yiek	Results of W d, water was:	1000	aw Down	R	ecovery
From 40	30'	Neat o	(Material ar	nd Type)		(m³(fi))		Clear and sand			Water Leve (m/ft)	Time (min)	Water Level (m/ft)
70		100000	ite slurry					pumping discontin		Static	254	-	26
201			ille siuriv					1/	oos, give recoon.	Level	004		25.6
30 /	0'	Dento				4		X		4	25.6	1	
30 /	0'	Deritor				4		ymp intoka set at /	EA.	1	25.6	- 1	
30 /	0	Delitor				4.		ump intake set at (	(A/A)	1 2	25.6	2	25.5
					Well 1		Pi	90		-		2	
Met  ☐ Cable To	thod of Co	onstruction Diamond	Pu	blic	Welf U	lse	Pu	ymping rate (Vmin)	GPM)	2	25.6	2	25.5
Mel □ Cable To □ Rotary (	thod of Co	Diamond  Diamond  Jetting	Pul	blic	☐ Comm	ise vercial Not pal Dew	Pu used vatering Du	90	GPMD -	2	25.6 25.6	3 4	25.5 25.4
Met ☐ Cable To ☐ Rotary ( ☐ Rotary ( ☐ Boring	thod of Co fool (Conventional (Reverse)	onstruction Diamond	Pul	blic mestic estock gation	Comm	ise vercial Not pal Dew	Pu used vatering nitoring	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end	GPM)	3 4 5	25.6 25.6 25.7	3 4 5	25.5 25.4 25.4
Met □ Cable Ti □ Rotary ( □ Rotary ( □ Boring ■ Air pero	thod of Co fool (Conventional (Reverse)	Diamond Diamond Diamond Diamond Diamond	Pul	blic mestic estock gation lustrial	Comm	ise  vercial Not pal Dew ole Mor	Pu used vatering — Fir	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end 26	min dof pumping (m/fi	2 3 4 5	25.6 25.7 25.7 25.7 25.8	2 3 4 5 10	25.5 25.4 25.4 25.4 25.4
Met □ Cable To □ Rotary ( □ Rotary ( □ Boring	thod of Co fool (Conventional (Reverse)	Diamond Diamond Diamond Diamond Diamond	Pul Go	blic mestic estock gation lustrial her, specify	Comm	Ise ercial Not Dew Dew More g & Air Conditioning	Pused vatering intoring Fit	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end	min dof pumping (m/fi	2 3 4 5 10 15	25.6 25.6 25.7 25.7 25.8 25.8	2 3 4 5 10	25.5 25.4 25.4 25.4 25.4 25.4
Meta Cable Ti Rotary ( Rotary ( Boring Air perco	thod of Co Tool (Conventional (Reverse)  cussion specify  Co Open Hol	onstruction  Diamond  Jetting Driving Digging  Disstruction R	Pul Do Liv India I	blic mestic estock gation lustrial her, specify	Comm	Jse  Percial Not pal Dew More More More More Status of Water Suppli	used vatering intoring Fit	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end 26	min d of pumping (m/fi	2 3 4 5	25.6 25.7 25.7 25.8 25.8 25.9	2 3 4 5 10 15	25.5 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary ( Rotary ( Rotary ( Boring Air perc	thod of Co Tool (Conventional (Reverse) sussion specify Co Open Hol (Galvaniz)	Diamond Diamond Diamond Diamond Diamond Diamond Diaging	Pul Go	blic mestic estock gation justrial her, specify	Comm	Se	used vatering nitoring Fit Well by Re	umping rate (Vmin 20 uration of pumping 1 hrs + . 0 nal water leyel end 26 lowing give rate (Vicecommended pum	min of pumping (m/fl min/GPM)	2 3 4 5 10 15	25.6 25.6 25.7 25.7 25.8 25.8 25.9	2 3 4 5 10 15 20 25	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Mel  Cable Ti  Rotary (  Boring  Air pero  Other, s	thod of Co Tool (Conventional (Reverse) sussion specify Co Open Hol (Galvaniz)	onstruction Diamond Diamond Onlying Driving Digging Onstruction R	Pul Do Liv India I	blic mestic estock gation ustrial her, specify sing Dep	Comm Munici Test H Cooling	See   Not pal   Dew ole   Mor of Water Suppl   Replacemen   Test Hole   Recharge W	Used Outstring Divisioning Fit Well Refuse Vell Refuse	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/	min of pumping (m/fl min/GPM)	2 3 4 5 10 10 15 20	25.6 25.7 25.7 25.8 25.8 25.9	2 3 4 5 10 15 20 25	25.5 25.4 25.4 25.4 25.4 25.4 25.4
Mel  Cable Ti  Rotary (  R	thod of Co fool (Conventional (Reverse) sussion specify Co Open Hol (Galvaniz, Concrete,	Distruction Diamond J Jetting Driving Digging Digging Digging Digging Digging Digging	Pul So Initial Ind Ind Oth Thickness (cmm)	blic mestic estock gation fustrial her, specify ing Dep From	Comm Munici Test H Cooling	Status of V  Status of V  Replacemen Test Hole Recharge W  Dewatering V	Used Outstring Divisioning Fit Well Refull Well Refull Well Refull Well Refull Refull Refull Well Refull Re	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min) accommended pum pin (PI)	min d of pumping (m/fil min/GPM) mp depth (m/fil)	2 3 4 5 10 10 15 20 25	25.6 25.6 25.7 25.7 25.8 25.8 25.9	2 3 4 5 10 15 20 25	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Mel  Cable Ti  Rotary (  Boring  Air pero  Other, s	thod of Co fool (Conventional (Reverse)  pussion specify  Co Open Hol (Galvaniz Concrete,	Distruction Diamond J Jetting Driving Digging Digging Digging Digging Digging Digging	Pul So Initial Ind Ind Oth Thickness (cmm)	blic mestic estock gation tustrial her, specify sing Dep From +2	Comm   Munici   Test H   Cooling	see   Not pal   Dew deling   Not pal   Dew deling   Status of U   Water Suppl   Replacemen   Test Hole   Recharge W   Observation   Monitoring H	Pused vatering intoring Fir Well Well and/or W.	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min) ecommended pum nin(EP)	min d of pumping (m/fil min/GPM) mp depth (m/fil)	2 3 4 5 10 15 20 25 30 40	25.6 25.7 25.7 25.7 25.8 25.8 25.9 25.9	2 3 4 5 10 15 20 25 30 40	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Mel  Cable Ti  Rotary (  R	thod of Co fool (Conventional (Reverse)  pussion specify  Co Open Hol (Galvaniz Concrete,	Distruction Diamond J Jetting Driving Digging Digging Digging Digging Digging Digging	Pul So Initial Ind Ind Oth Thickness (cmm)	blic mestic estock gation tustrial her, specify sing Dep From +2	Comm   Munici   Test H   Cooling	Status of V   Water Suppl   Replacemen   Test Hole   Recharge W   Dewatering V   Dewatering V   Deservation	Used Vatering Pit Viell Vy Re (I// Well Well And Vatering Pit Viell VWell VWel	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min) ecommended pum lin (PD) ell production (l/min) sinfexted?	min d of pumping (m/fil min/GPM) mp depth (m/fil)	2 3 4 5 10 15 20 25 30 40 50	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26	2 3 4 5 10 15 20 25 30 40	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Mel  Cable Ti  Rotary (  R	thod of Co fool (Conventional (Reverse)  cussion specify  Co Open Hol (Galvaniz Concrete, V Steel Open	onstruction  Diamond  Jetting Driving Digging	Pull Display Control of the Control	blic mestic estock gation ustrial ner, specify sing Dep From +2 (	Comm   Munici   Test H   Cooling	see   Not pal   Dew pal	Pi Used Vatering Did Vatering Pit Well Street Well Well and/or tole In	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration give	min dof pumping (m/fl) min/GPM) mp depth (m/fl) mp rate	2 3 4 5 10 15 20 25 30 40 50 60	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Mel Cable Ti Rotary ( Rotary ( Rotary ( Rotary ( Inside Diameter (cmin))	Conventional (Reverse)  Conspectify  Congen Hold (Gahraniz Concrete,  Steel  Open  Open  Open  Open  Concrete,  Concrete,	postruction Diamond Diamond Diying Diying Digging Digging Dissas, Plastic, Steel  Hole	Pull Display Control of the Control	blic mestic estock gation ustrial ner, specify sing Dep From +2 (	Communication of the communication of the communication of the control of the communication o	Status of Water Suppl   Status of Water Suppl   Replacemen   Test Hole   Recharge W   Dewatering   Observation   Abandoned, Abandoned, Abandoned, Sabandoned, Sa	Pi Used vatering pitoring Fir Well Well and/or tole In)	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary ( Rotary ( Rotary ( Rotary ( Rotary ( Inside Diameter (cm(f)))	thod of Co Tool (Conventional (Reverse)  Aussion Appecify  Co Open Hol (Gahvaniz) Concrete, Concrete Open  Co	onstruction  Diamond  Jetting Driving Digging	Pull Display Control of the Control	blic mestic estock gation ustrial ner, specify sing Dep From +2 (	Comm   Munici   Test H   Cooling	Status of Water Supply	Pi Used vatering pitoring Fit Well   Rit Well and/or tole   Poor Py	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min) ecommended pum lin (PD) ell production (l/min) sinfexted?	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary ( Boring Air pero Other, s	thod of Co Tool (Conventional (Reverse)  Aussion Appecify  Co Open Hol (Gahvaniz) Concrete, Concrete Open  Co	Distruction Diamond Diamond Distring Driving Digging D	Pull Indicates (cmg) .188 / 1	blic mrestic estock gation ustrial her, specify sing Dep From +2 (	Communication (mvft)	Status of U	Pi Used vatering pitoring Fit Well   Rit Well and/or tole   Poor Py	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met   Cable Ti   Rotary ( Rotary ( Boring Air perc Other, s	thod of Co Tool (Conventional (Reverse)  Aussion Appecify  Co Open Hol (Gahvaniz) Concrete, Concrete Open  Co	Distruction Diamond Diamond Distring Driving Digging D	Pull Indicates (cmg) .188 / 1	blic mrestic estock gation ustrial her, specify sing Dep From +2 (	Communication (mvft)	Status of Water Supply	Pused vatering printering printer	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary ( Rotary ( Rotary ( Rotary ( Rotary ( Inside Diameter (cm(f)))	thod of Co Tool (Conventional (Reverse)  Aussion Appecify  Co Open Hol (Gahvaniz) Concrete, Concrete Open  Co	postruction Diamond Jetting Driving Digging Digging Distruction R le OR Material and, Fibreglass, Plastic, Steel) Hole	Pull Divide Society of Case (cmf) 188 / 1	blic mrestic estock gation ustrial her, specify sing Dep From +2 (	th (m/t) To	Status of Water Suppl   Status of Water Suppl   Replacemen   Test Hole     Dewatering Water Suppl   Recharge W     Dewatering Water Suppl   Abandoned, Insufficient S     Abandoned, specify     Other, specified	Pused vatering printering printer	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary ( Rotary ( Boring Air pero Other, s  Inside Diameter (cmin)  Cutside Diameter (cmvin)	thod of Corollogo (Conventional (Reverse) sussion specify Concrete, Concrete	postruction Diamond Di	Pull link link link link link link link li	blic mestic estock gation tustrial her, specify sing Dep From +2 ( 40 (	Communication   Communication   Cooling	Status of V	Pi Used vatering pitoring Fit Well Well and/or Hole In) Supply Poor Py other, by	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable Ti Rotary (	thod of Co Tool (Conventional (Reverse)  Aussion Appecify  Co Open Hol (Gahvaniz) Concrete, Concrete Open  Co	Distruction Diamond Diamond Distring Distring Disging Disging Disging Distruction R Discrete Research Distruction R Distruction	Pull link link link link link link link li	blic mrestic estock gation ustrial her, specify sing Dep From +2 40  een Dep	Communication   Communication   Cooling	Status of V	Pused vatering printering printer	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Cable Ti Rotary ( Rot	thod of Corollo (Conventional (Reverse) (Conventional (Reverse) (Conventional (Reverse) (Conventional (Gahvaniz) (Concrete, Conventional (Gahvaniz) (Concrete, Conventional (Conventional (Conventiona) (Conventiona) (Conventional (Conventiona) (Conventiona	Distruction Diamond Diamond Distring Distruction R Diagning Distruction R Distruction	Pull Indicates (cmf)  .188 / 1  secord - Scr. Slot No.	blic rmestic estock gation rustrial her, specify sing Dep From +2 40  Continue to the continue	th (mv#t) To Deg	Status of V	Used Used Di Vatering mitoring Fit Well Street Well and/or tole only other, by ameter Plant Plan	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable To Rotary (	thod of Co fool (Conventional (Reverse)  Co Open Hol (Gahvaniz Concrete, Open  When the concrete, Open  Melastic, Ge  (Plastic, Ge  The concrete, Open  Gas  Gas  Gas  Gas  Gas  Gas  Gas  Ga	postruction Diamond Jetting Driving Digging Di	Pull Institute I	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online  on	th (m/ft) To  th (m/ft) To  Degree From	Status of U   Power of the North of the No	Used Used Di Vatering mitoring Fit Well Street Well and/or tole only other, by ameter Plant Plan	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.7 25.8 25.9 25.9 25.9 26 26 26	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable To Rotary (	thod of Corol (Conventional (Reverse) (Reverse) (Reverse) (Gahvaniz Concrete, Concrete	postruction Diamond Jetting Driving Digging Di	Pull link link link link link link link li	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online  on	th (m/ft) To  th (m/ft) To  Degree From	Status of V	Used vatering printoring Fit Well Well and/or tole work other, by	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable To Rotary (	thod of Co fool (Conventional (Reverse)  Co Open Hol (Gahvaniz Concrete, Open  When the concrete, Open  Melastic, Ge  (Plastic, Ge  And at Depth  Melastic, Ge  Gas  And at Depth  Melastic, Gas	postruction Diamond Jetting Driving Digging Di	Pull   Ining	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online ustrial her, specify from  Language  Lang	th (m/ft) To  th (m/ft) To  Degree From	Status of Water Suppl   Status of Water Suppl   Replacemen   Test Hole     Recharge W     Observation   Monitoring H     Alteration (Construction   Abandoned, Insufficient S     Other, specify	Used vatering printoring Fit Well Well and/or tole work other, by	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Cable To Rotary ( Rot	Concrete,	Diamond Diamon	Pull   Ining	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online ustrial her, specify from  Language  Lang	Comm   Munici   Test H   Coolin   To   40 '   100   To   To   Unit (m/tt)   To   To   To   To   To   To   To   To	Status of V   Water Supply   Replacemen   Test Hole   Recharge W   Dewatering   Observation   Monitoring H   Abandoned, Insufficient S   Abandoned   Specify   Other, specify	Used vatering printoring Fit well well and/or tole other, by	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Meter four (n. Nater	Cool (Conventional (Reverse) Concrete, Concret	Distruction Diamond Distruction Distruction Distruction Disping Driving Digging  Distruction Rele OR Material and, Fibreglass, Plastic, Steel)  Water Det Kind of Water Other, spe Kind of Water Other, spe Kind of Water Other, spe Kind of Water Cother, spe Cell Contractor	Pull   Image	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online ustrial her, specify from  Language  Lang	th (m/tt) To  th (m/tt) To  th (m/tt) To  th (m/tt) To	Status of V   Water Supply   Replacemen   Test Hole   Recharge W   Dewatering   Observation   Monitoring H   Abandoned, specify   Other, spe	Used vatering printering Fit well well and/or tole and/or your poor your printering prin	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end 26 dowing give rate (l/min) ecommended pum in CPD 20 ell production (l/min) signered? No ease provide a m	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Meter four (n. Nater	Cool (Conventional (Reverse) Concrete, Concret	Diamond Diamon	Pull   Image	blic mestic estock gation ustrial her, specify sing Dep From +2 40  online ustrial her, specify from  Language  Lang	th (m/tt) To  th (m/tt) To  th (m/tt) To  th (m/tt) To	Status of V   Water Supply   Replacemen   Test Hole   Recharge W   Dewatering   Observation   Monitoring H   Abandoned, Insufficient S   Abandoned   Specify   Other, specify	Used vatering printering Fit well well and/or tole and/or your poor your printering prin	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 uration (l/min 20 uration	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Outside Diameter (cm/in)  Outside Diameter (cm/in)  Nater four (n  Nater four (n  Nater four (n  Susiness N  Air R  Susiness A	Conventional (Reverse)  Laussion specify  Concrete,  Co	Distruction Diamond Distruction Distruction Dispring Driving Disgring Disgring Distruction R  The OR Material and, Fibreglass, Plastic, Steel)  Water Det Kind of Water Other, spe Contractor	Pull link link link link link link link li	blic mestic estock gation ustrial her, specify sing Dep From +2 40  Untested Untested Technicia	th (m/ft) To  100  To  100  To  100  To  Munici To	Status of U   Dew ole   Mor og & Air Conditioning   Replacemen   Test Hole   Recharge W   Dewatering   Observation   Monitoring H   Alteration   Constructior   Abandoned, Insufficient S   Abandoned   Specify   Other, specify   Other, specify   Hole Diameter   Di	Used vatering printering Fit well well and/or tole and/or your poor your printering prin	umping rate (l/min) 20 uration of pumping 1 hrs + 0 nal water leyel end 26 dowing give rate (l/min) ecommended pum in CPD 20 ell production (l/min) signered? No ease provide a m	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 15 20 25 30 40 50 60 Well Loc	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Outside Diameter (cm/in)  Outside Diameter (cm/in)  Nater four (n  Nater four (n  Nater four (n)  Nater four (n)  Nater four (n)	Conventional (Reverse)  Lassion specify  Concrete,  Con	Instruction  Diamond	Pull limited in the control of the c	blic mestic estock gation ustrial her, specify sing Dep From +2  40  Untested Untested Technicia	th (mv#) To  th (mv#) To  dd Person  in Informa	Status of U   Dew ole   Mor og & Air Conditioning   Status of U   Water Supple   Replacemen   Test Hole   Recharge W   Dobservation   Monitoring H   Alteration   Constructior   Abandoned, Insufficient S   Abandoned   Specify   Other, specify   Other, specify   Hole Diameter   To (c)   O 48   Abandoned   Contractor's Liceration   Contractor's Liceration	Used Vatering Picture of the Vell Well and/or tole other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and	umping rate (l/min) 20 uration of pumping 1 hrs + 0 has water leyel end 26 dowing give rate (l/min) ecommended pum inversity	min dof pumping (m/fl)  min dof pumping (m/fl)  mp depth (m/fl)  mp rate  mGPM)	2 3 4 5 10 10 15 20 25 30 40 50 60	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26 26  AMS  Minist	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable To Rotary (	Conventional (Reverse)  Lassion specify  Concrete,  Con	Distruction Diamond Distruction Distruction Dispring Driving Disgring Disgring Distruction R  The OR Material and, Fibreglass, Plastic, Steel)  Water Det Kind of Water Other, spe Contractor	Pull	blic mestic estock gation ustrial her, specify sing Dep From +2  40  Untested Untested Technicia	th (m/tt) To	Status of U   Dew ole   Mor og & Air Conditioning   Status of U   Water Supple   Replacemen   Test Hole   Recharge W   Dobservation   Monitoring H   Alteration   Constructior   Abandoned, Insufficient S   Abandoned   Specify   Other, specify   Other, specify   Hole Diameter   To (c)   O 48   Abandoned   Contractor's Liceration   Contractor's Liceration	Used Vatering Picture of the Vell Well and/or tole other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and Very other, other processors of the Vell with the Vell and	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 ecommended pum 20 eli production (l/min 20 lowers   No ease provide a m 20 lowers   No ea	min d of pumping (m/fi min/GPM) mp depth (m/fi) mp rate  Map of M map below follow  Cold Package Deliver 2023	2 3 4 5 10 15 20 25 30 40 50 60 CP	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26  AMS  AMS  AMS  AMS  AMS  AMS  AMS  AM	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4
Met Cable To Rotary (	Conventional (Reverse)  Conventional (Galvaniz Convente)  Convente (Galvaniz Convente)  Co	Distruction Diamond Diamond Distring Diyving Digging Diyving Digging  Distruction Rele OR Material and, Fibreglass, Plastic, Steel)  Hole  Water Det Kind of Water Other, spe Kind of Water	ecord - Cas  Wall Thickness (cmm)  188  Slot No.  Slot No.  Business  me of Well Ti Hanna	blic mestic estock gation ustrial er, specify sing Dep From +2 ( 40 (  ustrial per, specify sing Dep From  Language Prom  Language Prom  Language L	th (m/tt) To	Status of U   Dew ole   Mor og & Air Conditioning   Status of U   Water Supple   Replacemen   Test Hole   Recharge W   Dobservation   Monitoring H   Alteration   Constructior   Abandoned, Insufficient S   Abandoned   Specify   Other, specify   Other, specify   Hole Diameter   To (c)   O 48   Abandoned   Contractor's Liceration   Contractor's Liceration	Used Vatering Picture of the Vell Well and/or tole other, other processor of the Vell white well and vatering of the Vell well and variety of the Vell well and variety of the Vell white well and variety of the Vell well well and variety of the Vell well and variety of the Vell well well well and variety of the Vell well well and variety of the Vell well well and variety of the Vell well well and variety of the Vel	umping rate (l/min 20 uration of pumping 1 hrs + 0 nal water level end 26 lowing give rate (l/min 20 ecommended pum 20 eli production (l/min 20 lowers   No ease provide a m 20 lowers   No ea	min d of pumping (m/fl min/GPM) mp depth (m/fl) mp below follow from the from the from the follow from the fr	2 3 4 5 10 15 20 25 30 40 50 60 CP	25.6 25.7 25.7 25.8 25.8 25.9 25.9 26 26 26 26 26  AMS  Minist	2 3 4 5 10 15 20 25 30 40 50 60	25.5 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4

	ents record	ed in:	Metric X	mperial		A360957		Regulation	1 903 O	Intario Wat Page	er Kes	ources of
Well Own	ner's Info	rmation							的的政策技			
First Name	SURLINE VILLEGAL	MARKET THE THE CALLED AN ADMINISTRA	ast Name/O				E-mail Address				] Well (	Constru
Mailing Add	lenna /Ctenat	Number/Nam		Gillian		Municipality	Province	Postal Code		Talanhana A		ell Own
		rescent	ie)			Kanata	ON		200	Telephone N	io. (inc.	area co
Well Loca		a escent				Nameda		NZIII	200			100
		n (Street Num				Township		Lot		Concession		200.000
	trict/Municipa	Ramsay	Conces	sion 12		Beckwith City/Town/Village		P/L	Provin	12 ce	Postal	Code
Lan	ark					Ashton			Onta	ario	111	11
UTM Coord NAD	linates Zone	-	- Total	orthing		Municipal Plan and Sublo	ot Number		Other	#2	7	1
	1 1			50035 nment Se		ord (see instructions on the	e back of this form)		TVO		7	
General Co	olour	Most Comm	non Material		0	ther Materials	Ger	neral Description	1		Dep	th (non)
			Sand		4	Stones					0	3 /
Grey	46	reen	Limes	tone		-					3	133
Grey	9 G1	ren	Limes	tone							133	140
			_	1	1_	. 41	7					
		< 1	500	- 1	VE	L #	× ,	OFA				
<b>内的</b> 多是各	200 A 200 A 1		Annular	Space	-16. L	5 - 5 - Fair Fair Fa	PAR DALAS PAR	Results of W	ell Yiek	d Testing		Co. A
Depth Se From	et at (mg/ft)		Type of Sea (Material an	lant Used	4 - 1	Volume Placed	After test of well yield	d, water was:	Dra	aw Down Water Level		ecovery Water L
40 /	30 /	Neat ce		· iype)		10.92	☐ Other, specify		(min)	(m/ft)	(min)	(m/ft
30 ′	0'	1	ite slurry	1		8.4	If pumping discontinu		Static	23'4"	1	25.6
		are mer i					X		1	24.2	1	2
							Pump intake set at (r		2	24.5	2	23
							130	5 45	1		-	
								SCOM)	3	24 7	3	2
State of the State	nod of Con	THE RESERVE AND A STREET			Well U	CAMP OF STREET AND STREET AND STREET	Pumping rate (l/mier)	SPM)		24.7	-	
Cable Too	ol	Diamond  Jetting	Put		Well U Comm	ercial Not used	Pumping rate (l/mia/	8	4	24.8	4	23
Cable Too	ol Conventional)	Diamond Jetting Driving	Live	mestic estock	Comm	ercial Not used pal Dewatering ple Monitoring	Pumping rate (I/mise)  Duration of pumping  1 hrs + 0	min	4 5	24.8	4 5	2:
Cable Too Rotary (C Rotary (R Rotary (R Rotary (R	ol conventional) deverse) ssion	☐ Diamond ☐ Jetting	Live	mestic estock pation ustrial	Comm	ercial Not used Dewatering	Pumping rate (l/mia/	min	5 10	24.8 24.9 25.1	4 5 10	2:
Cable Too Rotary (C Rotary (R	ol Conventional) Reverse) ssion ecify	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging	Live	mestic estock pation ustrial er, specify _	Comm	ercial Not used hall Dewatering see Monitoring g & Air Conditioning	Pumping rate (l/mier)  Duration of pumping  1 hrs +  Final water leyel end	min of pumping (m/ft	4 5	24.8	4 5	2:
Cable Too Rotary (C Rotary (R Rotary	conventional) conventional) coverse) ssion ecify Con	Diamond Jetting Driving Digging	Live	mestic estock pation ustrial er, specify ing	Comm Municip Test Ho	ercial Not used pal Dewatering of Monitoring g & Air Conditioning	Pumping rate (Vinier)  Duration of pumping  hrs +  Final water level end  25.6  If flowing give rate (Vinier)	min of pumping (m/ft	5 10	24.8 24.9 25.1	4 5 10	2:
Cable Too Rotary (C Rotary (R Rotary	conventional) teverse) ssion ecify Open Hole (Galvanizet	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging	Live   Indi	mestic estock pation ustrial er, specify ing	Comm	ercial Not used bal Dewatering ole Monitoring g & Air Conditioning  Status of Well Water Supply Replacement Well	Pumping rate (Univer)  Duration of pumping  hrs +  Final water level end  25.6	min of pumping (m/ft	4 5 10 15	24.8 24.9 25.1 25.2	4 5 10 15	23 23 23 23 23
Cable Too Rotary (C Rotary (R Rotary	conventional) teverse) ssion ecify Open Hole (Galvanizet	Diamond Jetting Driving Digging  Struction Re OR Material	Live	mestic estock pation ustrial er, specify Depth	Comm Municia Test He Cooling	ercial   Not used pal   Dewatering ple   Monitoring g & Air Conditioning g & Air Status of Well   Water Supply   Replacement Well   Test Hole   Recharge Well	Pumping rate (Vinley)  Duration of pumping  1 hrs + 0  Final water level end  25.6 //  If flowing give rate (Vinley)  Recommended pum  Recommended pum	min of pumping (m/ft min/GPM) up depth (n/ft)	4 5 10 15 20	24.8 24.9 25.1 25.2 25.3	4 5 10 15 20	23 23 23 23 23 23
Cable Too Rotary (C Rotary (R Rotary	conventional) teverse) ssion ecify Con Open Hole (Galvanize Concrete, F	Diamond Jetting Driving Digging  Struction Re OR Material Jetting Digging	Live Live   Live	mestic estock pation ustrial er, specify  Depth From  +2'	Comm   Municip   Test Ho	ercial Not used pal Dewatering ple Monitoring g & Air Conditioning  Status of Well  Vater Supply Replacement Well Test Hole Recharge Well Dewatering Well	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Recommended pum	min of pumping (m/ft min/GPM) p depth (m/ft)	4 5 10 15 20 25	24.8 24.9 25.1 25.2 25.3 25.3	4 5 10 15 20 25	23 23 23 23 23 23 23
Cable Too Rotary (C Rotary (R Rotary	conventional) Reverse) Sesion ecify Open Hole (Galvanizec Concrete, F	Diamond Jetting Driving Digging  Struction Re OR Material Jetting Digging	Live Live   Live	mestic estock gation ustrial er, specify Depth From	Comm Municip Test Ho Cooling	ercial Not used bal Dewatering ole Monitoring g & Air Conditioning  Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Recommended pum	min of pumping (m/ft min/GPM) up depth (n/ft)	4 5 10 15 20 25 30 40	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5	4 5 10 15 20 25 30 40	23 23 23 23 23 23 23 23 23
Cable Too Rotary (C Rotary (R Rotary	conventional) teverse) ssion ecify Con Open Hole (Galvanize Concrete, F	Diamond Jetting Driving Digging  Struction Re OR Material Jetting Digging	Live Live   Live	mestic estock pation ustrial er, specify  Depth From  +2'	Comm   Municip   Test Ho	ercial Not used pal Dewatering ple Monitoring g & Air Conditioning    Status of Well     Vater Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing glys rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Obstructed?	min of pumping (m/ft min/GPM) p depth (m/ft)	4 5 10 15 20 25 30 40 50	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5	4 5 10 15 20 25 30 40 50	23 23 23 23 23 23 23 23 23 23
Cable Too Rotary (C Rotary (R Rotary	onventional) teverse) ssion ecify Con Open Hole (Galvanizec Constent Steel Open H	Diamond Jetting Driving Driving Digging	Cord Cas  Wall Thickness (cm/lo)  .188	mestic stock pation ustrial er, specify	Comm   Municip   Test Ho	ercial Not used pal Dewatering ple Monitoring g & Air Conditioning g & Air Conditioning s & Air Conditioning Hole Monitoring Hole Alteration	Pumping rate (Vinley)  Duration of pumping  1 hrs + 0  Final water level end  25.6  If flowing give rate (Vinley)  Recommended pum  (Vinley)  Well production (Vinley)  Well production (Vinley)	min of pumping (m/ft min/GPM) p depth (MP) p rate	4 5 10 15 20 25 30 40 50 60	24.8 24.9 25.1 26.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50	23 23 23 23 23 23 23 23 23 23 24 24 25 25 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary (C Rotary (R Rotary	conventional) conventional of the verse of t	Diamond Disting Driving Digging  Struction Re OR Material J. Fibregless, Plastic, Steel)	Cord Cas  Wall Thickness (cm/lo)  .188	mestic stock pation ustrial er, specify	Common Municipal	sercial Not used pal Dewatering ple Monitoring g & Air Conditioning    Status of Well	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary (R) Rotary (C) Rotary (R) Ro	ol conventional) conventional) teverse) ssion colfy Con Open Hole (Gafvanizec Concrete, F Open H Con Ma	Diamond Jetting Driving Driving Digging	Cord Cas  Wall Thickness (cm/lo)  .188	mestic stock pation ustrial er, specify	Comm   Municip   Test Ho	ercial   Not used bal   Dewatering ble   Monitoring g & Air Conditioning    Status of Well   Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Insufficient Supply   Abandoned, Poor Water Quality   Abandoned, other,	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing glys rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Obstructed?	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2
Cable Toc Rotary (C Rotary (R Rotary R	ol conventional) conventional) teverse) ssion colfy Con Open Hole (Gafvanizec Concrete, F Open H Con Ma	Diamond Jetting Driving Driving Digging  Struction Re OR Material Fibreglass, Plastic, Steel)	Live   Indian   Ind	mestic stock pation ustrial er, specify	Comm Munici Test H Cooling To 40° 140°	ercial   Not used bal   Dewatering ble   Monitoring g & Air Conditioning    Status of Well   Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Dewatering Hole   Alteration   Alteration   Abandoned, Insufficient Supply   Abandoned, Poor Water Quality	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary (R Rotary	ol conventional) conventional) teverse) ssion colfy Con Open Hole (Gafvanizec Concrete, F Open H Con Ma	Diamond Jetting Driving Driving Digging  Struction Re OR Material Fibreglass, Plastic, Steel)	Live   Indian   Ind	mestic stock pation ustrial er, specify	Comm Munici Test H Cooling To 40° 140°	ercial   Not used bal   Dewatering ble   Monitoring g & Air Conditioning    Status of Well   Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Insufficient Supply   Abandoned, Poor Water Quality   Abandoned, other,	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary (R Rotary	ol conventional) conventional) teverse) ssion colfy Con Open Hole (Gafvanizec Concrete, F Open H Con Ma	Diamond Diamond Disting Driving Digging  Struction Re OR Material Fibregless, Plastic, Steel)	Cord   Cas   Wall   Thickness (cm/lo)   .188	mestic stock pation ustrial er, specify	Comm Munici Test H Cooling To  40°  140°  To	sercial   Not used pal   Dewatering ple   Monitoring g & Air Conditioning      Status of Well   Very part of the p	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Cable Toc Rotary (C Rotary (C Rotary (R) Rotary (C) Rotary (R) Rot	Con Open Hole (Galvanite, Concrete, F Steel Open I  Con Open Hole (Galvanite, Concrete, F  Steel Open I  Con  A (Plastic, Galv  d at Depth   I	Diamond Diamond Disting Driving Digging  Struction Re OR Material J. Fibrogless, Plastic, Steel)  Hole  Water Deta Kind of Water:	Dor Live   India   Oth Cacord - Cas   Wall Thickness (cm/los)   188	restic stock stock pation ustrial er, specify	Comm Munici Test H Cooling To To To To To To Dep	sercial   Not used bal   Dewatering ble   Monitoring g & Air Conditioning g & Air Conditioning   Status of Well   Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Insufficient Supply   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Hole Diameter   Diam	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Cable Toc Rotary (C Rotary	Con Open Hole (Galvariete Open I  Steel Open I  Con Open Hole (Galvariete Open I  Steel Open I  Gas  Gas  Gas  Gas  Gas  Gas  Gas  Ga	Diamond Diamond Disting Driving Digging  Struction Re OR Material J. Fibregless, lestic, Steel)  Hole  Water Deta Cind of Water. Dother, speed	Dor Live   India   Oth	mestic setock setock per	Comm Municip Test H Cooling To  40°  140°	sercial   Not used pal   Dewatering ple   Monitoring g & Air Conditioning    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	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 23 23 24
Cable Toc Rotary (C Rotary	Con Open Hole (Galvariate, Flastic, Galv d at Depth	Diamond Diamond Jetting Driving Driving Digging  Struction Re OR Material J, Fibrogless, lestic, Steel)  Hole  Water Deta Kind of Water: Dother, spec	Dor Live   India   Ind	mestic setock setock per	Comm Munici Test H Cooling To To To To To To Dep	status of Well  Status of Well  Water Supply Replacement Well Perchange Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Deservation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify  Other, specify  Hole Diameter To Custop	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanizec Concrete, F  Steel Open I  Gas at Depth I  Gas at Depth I  Gas at Depth I  Gas at Depth I  Gas	Diamond Diamond Disting Driving Digging  Struction Re OR Material J. Fibregless, lestic, Steel)  Hole  Water Deta Cind of Water. Dother, speed	Dor Live   India   Oth Cacord - Cas   Wall Thickness (cm/los)   188	mestic setock setock per	Comm Munici Test H Cooling To To To To To To Dep	Status of Well    Status of Well   Water Supply     Replacement Well     Dewatering of the supply     Replacement Well     Dewatering Well     Dewatering Well     Dewatering Well     Dewatering Well     Deservation and/or Monitoring Hole     Alteration (Construction)     Abandoned, Insufficient Supply     Abandoned, Poor Water Quality     Abandoned, other, specify     Other, specify     Hole Diameter     To Clameter     To Cla	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  View No  Please provide a m	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 23 23 23 23
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanizec Concrete, F  Steel Open I  d at Depth I  ft)  Gas d at Depth I  ft)  Gas d at Depth I	Diamond Diamond Jetting Driving Driving Digging  Struction Re OR Material J. Fibrogless, Plastic, Steel)  Water Deta Kind of Water: Other, spec Other, spec	Cord   Cas   Wall Thickness (cm/los)   188   Second   Scrus   Slot No.   Fresh   Cify   Cify   Fresh   Cify   Fresh   Cify   Cify   Fresh   Cify	mestic setock setock per	Comm Munici Test H Cooling To To To To To To Dep	status of Well  Status of Well  Water Supply Replacement Well Perchange Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Deservation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify  Other, specify  Hole Diameter To Custop	Pumping rate (Vinier)  Duration of pumping  1 hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Oistinacted?  No	min of pumping (m/ft min/GPM) p depth (MP) p rate Map of W ap below follow MAP of W ACAMA	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 23 23 23 23
Cable Toc Rotary (C Rotary	Con Open Hole (Ga/svanizec Concrete, F Steel Open Hole (Plastic, Galvanizec Concrete)	Diamond Diamond Jetting Driving Driving Digging  Struction Re OR Material Jeting Re OR Material Jeting Re OR Material Jeting Re	Cord   Cas	mestic setock percent of the setock percent	Comm Munici Test H Cooling To  40'  140'  Deg From	Status of Well  Status of Well  Water Supply Replacement Vell Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify  Hole Diameter To Diameter To Diameter To 140  (1)  Status of Well Water Supply Replacement Vell Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Poor Water Quality Abandoned, other, specify  Hole Diameter To Diameter To 140  (1)  Status of Well	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  View No  Please provide a m	min of pumping (m/ft min/GPM) p depth (m/ft) p rate Map of W	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Cable Toc Rotary (C Rotary	Con Open Hole (Ga/vanizec Concrete, F Steel Open Hole (Plastic, Galvanizec Concrete)    Con Steel Open Hole (Plastic, Galvanizec Concrete)    At a t Depth   Mark   Gas   At Depth   Mark   Mar	Diamond Diamond Jetting Driving Driving Digging  Struction Re OR Material Fibreglass, Plastic, Steel)  Hole  Struction Re terial Fibreglass, Viastic, Steel)  Water Deta Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Contractor	Cord   Cas	mestic setock se	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement Well  Percharge Well  Dewatering Well  Dewatering Well  Dewatering Well  Observation and/or Monitoring Hole  Alteration  (Construction)  Abandoned,  Insufficient Supply  Abandoned, Poor  Water Quality  Abandoned, other,  specify  Hole Diameter  oth (m/dp)  O 140 6 (1	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  View No  Please provide a m	min of pumping (m/ft min/GPM) p depth (MP) p rate Map of W ap below follow MAP of W ACAMA	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary	Con Open Hole (Ga/vanizec Concrete, F Steel Open Hole (Plastic, Galvanizec Concrete, F Con	Diamond Diamond Disting Driving Digging  Struction Re OR Material Fisher plass, restic, Steel)  Hole  Water Deta Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Contractor Contractor Contractor Co. Ltd.	Cord   Cas   Wall   Thickness (cm/lo)   188   Slot No.   Slot No.   Slot No.   Slot No.   Fresh   Coffy   Coffy   Fresh   Coffy   Co	mestic setock se	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement Well  Pass Hole  Recharge Well  Observation and/or Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Supply  Abandoned, Other, specify  Hole Diameter  To Contractor's Licence No.  7681	Pumping rate (Vinier)  Duration of pumping  Ins + 0  Final water level end  25.6  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  View No  Please provide a m	min of pumping (m/ft min/GPM) p depth (MP) p rate Map of W ap below follow MAP of W ACAMA	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanize Concrete, Steel Open I of the Concrete O	Diamond Diamond Jetting Driving Driving Digging  Struction Re OR Material A, Fibreglass, lastic, Steel)  lole  water Deta Kind of Water: Other, spec Kind of Water: Contractor Contract	acord - Cas  Wall Thickness (cm/le)  .188  acord - Screen Color  .188  acord - Screen	mestic stock stock pation ustrial er. specify	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement Well  Percharge Well  Dewatering Well  Dewatering Well  Dewatering Well  Observation and/or Monitoring Hole  Alteration  (Construction)  Abandoned,  Insufficient Supply  Abandoned, Poor  Water Quality  Abandoned, other,  specify  Hole Diameter  oth (m/dp)  O 140 6 (1	Pumping rate (Vinier)  Duration of pumping  Inrs + 0  Final water level end  25.6  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Well production (Vinier)  Distrincted?  Vel: No  Please provide a m  ACAR  Conce	min of pumping (m/ft min/GPM) p depth (MP) p rate Map of W ap below follow MAP of W ACAMA	4 5 10 10 15 20 25 30 40 50 60	24.8 24.9 25.1 25.2 25.3 25.3 25.4 25.5 25.5 25.6	4 5 10 15 20 25 30 40 50 60	23 23 23 23 23 23 23 24 23 24 24 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanizec Concrete, F  Steel Open I  Gas d at Depth I  fft) Gas	Diamond Diamond Disting Driving Digging  Struction Re OR Material Fisher plass, restic, Steel)  Hole  Water Deta Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Contractor Contractor Contractor Co. Ltd.	acord - Cas  Wall Thickness (cm/le)  .188  acord - Screen Color  .188  acord - Screen	mestic setock se	Comm   Munici   Munici   Test H   Cooling	Status of Well  Status of Well  Water Supply  Replacement Well  Pass Hole  Recharge Well  Observation and/or Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Supply  Abandoned, Other, specify  Hole Diameter  To Contractor's Licence No.  7681	Pumping rate (Vinier)  Duration of pumping  I hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended	min of pumping (m/th min/GPM) p depth (MP) p rate m/GRAP  Map of W ap below follow A A A A A A A A A A A A A A A A A A A	4 5 10 10 15 20 25 30 40 50 60 Felf Locard Instru	24.8 24.9 25.1 26.2 25.3 25.3 25.4 25.5 25.6 attion auctions on the control of th	4 5 10 15 20 25 30 40 50 60 Feb (A)	22 22 22 22 22 22 22 22 22 22 22 22 22
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanizec Concrete, F  Steel Open I  Open I  Con Open Hole (Galvanizec Concrete, F  Steel Open I  Open	Diamond Diamond Disting Driving Digging  Struction Re OR Material J. Fibrogless, Plastic, Steel)  Iole  Water Deta Annized, Steel)  Water Deta Annized, Steel Other, spec And of Water: And of Water: And of Water: Other, spec And of Water: And of Wat	Dor Live   India   Ind	mestic setock se	Comm   Municipal	Status of Well  Status of Well  Water Supply Replacement Vell Test Hole Recharge Well Dewatering Well Dewatering Well Deservation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify  Hole Diameter.  Other, specify  Hole Diameter.  Other, Specify  Diameter To Diameter To To Table  Of 140  Table  Diameter To	Pumping rate (Vinier)  Duration of pumping hrs + 0  Final water level end 25.6 "  If flowing give rate (Vinier)  Recommended pum (Vinier)  Recommended pum (Vinier)  Well productes (Vinier)  Please provide a m  AR  Concepts:  Well bywer's Date information	min of pumping (m/ft min/GPM) p depth (MP) p rate m/GAM2  Map of W ap below follow  A A A A A A A A A A A A A A A A A A	4 5 10 10 15 20 25 30 40 50 60 60 60 60 60 60 60 60 60 60 60 60 60	24.8 24.9 25.1 26.2 25.3 25.3 25.4 25.5 25.6 attion auctions on the control of th	4 5 10 15 20 25 30 40 50 60	22 22 22 22 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Cable Toc Rotary (C Rotary	Con Open Hole (Galvanizec Concrete, F Steel Open Hole (Galvanizec Concrete, F Gas d at Depth Hole (Galvanizec Concrete, F Gas d at Depth Hole (F) Gas	Diamond Diamond Disting Driving Digging  Struction Re OR Material Fibreglass, restic, Steel)  Hole  Water Detz Kind of Water: Other, spec Kind of Water: Other, spec Kind of Water: Contractor Contrac	Cord   Cas   Wall   Thickness (cm/los)   188	mestic setock setock period pe	Common Municipal	Status of Well  Status of Well  Water Supply Replacement Vell Test Hole Recharge Well Dewatering Well Dewatering Well Deservation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify  Hole Diameter.  Other, specify  Hole Diameter.  Other, Specify  Diameter To Diameter To To Table  Of 140  Table  Diameter To	Pumping rate (Vinier)  Duration of pumping  I hrs + 0  Final water level end  25.6 "  If flowing give rate (Vinier)  Recommended pum  (Vinier)  Recommended	min of pumping (m/th min/GPM) p depth (MP) p rate m/GRAP  Map of W ap below follow A A A A A A A A A A A A A A A A A A A	4 5 10 15 20 25 30 40 50 60 ed 8	24.8 24.9 25.1 26.2 25.3 25.3 25.4 25.5 25.6 25.6 Minist	4 5 10 15 20 25 30 40 50 60 Feb (A)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

ontario easurements	recorded in:	- 1	pperial		A360960		Regulation	903 0	Page	ter Res	ources Ac
Vell Owner's	s Information	P	A STATE	S. CARRO	alk a water of a spage						
rst Name	L	ast Name/Org			20 1 1 2 2 3 1 2 2 3 1 2 2 2 3 2 3 2 3 2 3	E-mail Addre	ess	SC 20 CONCESS CORN			Constructed
ailing Address	(Street Number/Nam		Gillian		Municipality	Province	Postal Code	1	Telephone N		area code)
	ion Crescent	,			Kanata	ON	10.000	200			
ell Location	The state of the s										
	Location (Street Num vic) Ramsay		sion 12		Township Beckwith		Lot P/L	25	Concession 12	1	
ounty/District/M					City/Town/Village			Provin		Postal	Code
Lanark M Coordinates	s Zone , Easting	Nor	thing	-	Ashton Municipal Plan and St	iblot Number		Ont	ario		
NAD 8 3			50032	- 3.3.4	mornopar rian and or	abiot Namboi			W#	35	74
ALL STREET, ST	nd Bedrock Materi		ment Sea		ord (see instructions o			1252		Den	th (met)
eneral Colour	Most Comn	non Material	-	O	ther Materials	-	General Description			1	1
_		Sand								0'	2'
Grey		Limest							-	2	160
Grey		Limest	cone							160	170
				***							
	1			. 1.	71-#	7					
	1</td <td>550</td> <td></td> <td>NE</td> <td>LLX</td> <td>2</td> <td>0</td> <td>4</td> <td></td> <td></td> <td></td>	550		NE	LLX	2	0	4			
		Annular S	Space	81 F Van 2	and the same of the same		Results of W	ell Yiel	d Testing	100000	1
Depth Set at (n	To	Type of Seala (Material and	ant Used		Volume Placed	After test of well y	rield, water was:		aw Down		ecovery Water Lew
	0 Neat o		Туреј		10.92	Other, speci	fy Not teste	(min)	(m/ft)	(min)	(m/ft)
0' 0	) Benton	ite slurry			4.2	If pumping discon	tinued, give reason:	Static	231.4	4 -	23.9
					1	$-\parallel \times$		1	23.6	1	23.
								4			
			-		-	Pump intake set a	at (not)	2	23.6	2	23.
10001212		ZL St. PROLED	1.5			160		3	23.6	1-1	
COMPANY AND STREET	of Construction	, ∏ Publi	ic	Well U	AND THE PARTY WAS DON'T BE A PARTY OF THE PA	Pumping rate (I/m	in (PM)			3	23.
Cable Tool Rotary (Conver	☐ Diamond	Dom	estic	Comm	ercial Not used	Pumping rate (I/m 20 Duration of pump	in (PM)	3	23.6	3	23.
Cable Tool Rotary (Conver Rotary (Reverse Boring	☐ Diamond	Lives	estic stock ation	Commicing Municip	ercial Not used	Pumping rate (l/m 20 Duration of pumping 1 hrs +	in (GPM)	3 4 5	23.6 23.6	3 4 5	23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring Air percussion	Diamond	Lives	estic stock ation	Commicing Municip	ercial Not used pal Dewater ole Monitoria	Pumping rate (Vm 20 Duration of pump 1 hrs + Final water level e 23.9	in GPM) ing     min end of pumping (m/ft	3 4 5	23.6 23.6 23.7	5 10	23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring Air percussion	Diamond	Lives   Indus	estic stock ation strial er, specify	Commicing Municip	ercial Not used pal Dewater ole Monitoria	Pumping rate (Vm 20 Duration of pump 1 hrs + Final water level e 23.9	in GPM) ing     min end of pumping (m/ft	3 4 5 10	23.6 23.6 23.7 23.8 23.8	3 4 5 10 15	23. 23. 23. 23. 23.
Cable Tool Rotary (Converse Rotary (Reverse Boring Rotary Reverse Boring Rotary	ntional)	Lives Indus	nestic stock ation strial er, specify Depth	Comm Municip Test Ho Cooling	ercial Not used pal Dewater ole Monitoring & Air Conditioning  Status of Well Water Supply	Pumping rate (Vm 20 Duration of pump 1 hrs + Final water level c 23.9 If flowing give rate	ing min end of pumping (m/ft)	3 4 5 10 15 20	23.6 23.7 23.8 23.8 23.8	3 4 5 10 15 20	23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Converse Rotary (Reverse Boring Air percussion Other, specify	Diamond ntional) Jetting se) Driving Digging  Construction R	Lives   Indus   Indus   Othe	nestic stock ation strial er, specify Depth	Comm Municip Test Ho Cooling	ercial Not used pal Dewater ole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Test Hole	Pumping rate (Vm 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate	in GPM)  ing min end of pumping (m/ti (//min/GPM)	3 4 5 10 15 20 25	23.6 23.7 23.8 23.8 23.8 23.8 23.9	3 4 5 10 15 20 25	23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring A) percussion Other, specify Inside   Opi	Diamond   Diam	Lives Indus	nestic stock ation strial er, specify _  Depth From  +2	Common Municipal Test Hole Cooling	ercial Not used pal Dewateriole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Recharge Well	Pumping rate (Vm 20 Duration of pump 1 hrs + Final water level c 23.9 If flowing give rate	in GPM)  ing min end of pumping (m/ti (//min/GPM)	3 4 5 10 15 20 25 30	23.6 23.7 23.8 23.8 23.8 23.8 23.9	3 4 5 10 15 20 25 30	23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversiboring A) percussion other, specify inside Opp iameter (Ga cord)  (Cable Tool Rotary (Cable Cord)	Diamond   Diam	Lives   Indus   Othe	nestic stock ation strial er, specify Depth	Comm Municip Test Ho Cooling	ercial Not used pal Dewateriole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Test Hole Rewatering Well Observation and	Pumping rate (Vm 20 Duration of pumping and this + Final water level of 23.9  Recommended pumping fill Recommended pumpin	ing min and of pumping (m/ft  (l/min/GPM)  ump depth (m)  ump rate	3 4 5 10 15 20 25	23.6 23.7 23.8 23.8 23.8 23.8 23.9	3 4 5 10 15 20 25 30	23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversiboring Air percussion Other, specify Inside Opp Inside Opp Inside Cor	Diamond Diamond Intional) Jetting Letting Diriving Digging Construction Report Hole OR Material Sharized, Fibreglass, Increte, Plastic, Steel)	Lives   Indus   Othe	nestic stock ation strial er, specify _  Depth From  +2	Common Municipal Test Hole Cooling	ercial Not used paid Dewater ole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and Monitoring Hole Alteration	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/QPM) Or Well production (I/min/QPM)	ing min and of pumping (m/ft  (l/min/GPM)  ump depth (m)  ump rate	3 4 5 10 15 20 25 30	23.6 23.7 23.8 23.8 23.8 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversiboring Air percussion Other, specify Inside Opp Inside Opp Inside Cor	Diamond Diamond Intional) Jetting Letting Diriving Digging Construction Report Hole OR Material Sharized, Fibreglass, Increte, Plastic, Steel)	Lives   Indus   Othe	nestic stock ation strial er, specify _  Depth From  +2	Common Municipal Test Hole Cooling	ercial Not used pal Dewater ole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Alteration (Construction) Abandoned,	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/SPM) Well production (I/min/SPM) Pisinitested?	in GPM)  ing min  ond of pumping (m/ft)  o (l/min/GPM)  nump depth (l/m)  ump rate	3 4 5 10 15 20 25 30 40	23.6 23.7 23.8 23.8 23.8 23.9 23.9	3 4 5 10 15 20 25 30 40 50	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring Air percussion Other, specify Inside Opi	Diamond Diamond Intional) Jetting Letting Diriving Digging Construction Report Hole OR Material Sharized, Fibreglass, Increte, Plastic, Steel)	Company    Lives   Lives   Lives   Linga   Lingua   Lingu	sestic stock attack attach strial str	Common Municipal Test Hole Cooling	ercial	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/(PM)) Well production (I/min/(PM)) Well production (I/min/(PM)) Vyes  \[ \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 15 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversible)	Diamond   Diamond   Diamond   Diamond   Diamond   Diamond   Diriving   Digging   Digging   Diamond   Dia	Company    Lives   Lives   Lives   Linga   Lingua   Lingu	estic stock attion strial strial rr, specify	Comme Municip Municip Cooling  Test He Cooling  To 40 1	ercial	Please provide a	in GPM)  ing min  min  of min  of (/min/GPM)  ump depth (ff)  ump rate  /min(GPM)	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversible Form) Air percussion Other, specify Inside Option Office (Ga com(m) Other O	Diamond Diamond Intional) Jetting Diriving Digging Construction Report Hole OR Material Shanized, Fibreglass, Increte, Plastic, Steel Diamond Digging Construction Report Hole	Company    Lives   Lives   Lives   Linga   Lingua   Lingu	estic stock attion strial rr, specify	Comment   Comment   Comment   Comment   Comment   Comment   Cooling   Coolin	ercial Not used pal Dewateriole Monitoring & Air Conditioning  Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Hole Alteration (Construction) Abandoned, Insufficient Suppl Abandoned, Poo Water Quality Water Quality	Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring Air percussion Other, specify  Inside Option Office (Ga comm) Office Option Option Office Option Office Option Office Option Opt	Diamond   Diamond   Diamond   Diamond   Diamond   Diamond   Diriving   Digging   Digging   Diamond   Dia	Company    Lives   Lives   Lives   Linga   Lingua   Lingu	estic stock attion strial strial rr, specify	Comme Municip Municip Cooling  Test He Cooling  To 40 1	ercial	Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reversi Boring Ali percussion Other, specify Inside operating of the convertion of the	Diamond   Jetting   Diamond   Jetting   Dirving   Digging     Construction Repended   Construction R	Com Lives   Indus   Other   Ot	estic stock attack attach strial rr, specify	Comme Municip Municip Cooling  Test He Cooling  To 40 1  170	ercial	Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rotary (Reverse Boring Air percussion Other, specify  Inside Insi	Diamond Diamond Intional) Jetting Dirving Digging Construction Report Diagonal Diago	Lives   Indus   Indu	estic stock attack attach strial rr, specify	Comme Municip Municip Cooling  Test He Cooling  To 40 1  170	ercial	Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Diamond   Jetting   Diamond   Jetting   Dirving   Digging     Construction Repended   Construction R	Lives   Indus   Indu	pestic stock	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement We  Test Hole  Recharge Well  Dewatering Well  Dewatering Well  Dewatering Hole  Alteration  (Construction)  Abandoned, Poo  Water Cuality  Abandoned, othe specify  Other, specify  Hole Diameter  pth (mg)  Diameter  To  Others	Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  imp depth (l/m)  imp rate  imp depth (l/m)  imp rate	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 5 10 15 20 25 30 40 50 60	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Diamond   Diamond   Jetting   Dirving   Driving   Digging   Diggin	ecord - Casir  Wall Thickpes (cmsa) .188	pestic stock attack att	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement We  Test Hole  Recharge Well  Dewatering Well  Dewatering Well  Dewatering Hole  Alteration  (Construction)  Abandoned, Poo  Water Cuality  Abandoned, othe specify  Other, specify  Hole Diameter  pth (mg)  Diameter  To  Others	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/QPM)  Well production (I/min/QPM) Please provide a I/min/QPM Please provide a I/min/QPM	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Diamond   Jetting   Diamond   Jetting   Dirving   Digging	ecord - Casin  Wall Thickpess (criss)  .188  alis  Fresh cify  Fresh cify  Fresh	pestic stock attack att	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement We  Recharge Well  Observation and Monitoring Hole  Abandoned, Insufficient Supply  Abandoned, othe specify  Other, specify  Hole Diameter  To Diameter  D 40	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/QPM)  Well production (I/min/QPM) Please provide a I/min/QPM Please provide a I/min/QPM	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Diamond   Jetting   Diamond   Jetting   Driving   Digging	ecord - Casin  Wall Thickpes (cmsa) .188  alis  Fresh cify  Fresh cify	pestic stock at the stock at th	Common Municipal	ercial	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/QPM)  Well production (I/min/QPM) Please provide a I/min/QPM Please provide a I/min/QPM	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Construction Robert Hole  Construction Rober	ecord - Casi  Wall Thickpess (cmsn) .188  ecord - Scree Slot Mall Thickpess (cmsn) .188	pestic stock at the stock at th	Common Municipal	Status of Well  Status of Well  Water Supply Replacement We Recharge Well Observation and Monitoring Hole Alteration (Construction) Abandoned, ploe Water Quality Abandoned, othe specify  Other, specify  Hole Diameter  pth (mb) 178  Gland	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/CPM)  Well production (I/min/CPM)  Please provide a  Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Construction Robert Hole  Construction Rober	ecord - Casi  Wall Thickpess (crisic) .188  ecord - Scree  Slot Mail Thickpess (crisic) .188	pestic stock at the stock at th	Common Municipal	Status of Well  Status of Well  Water Supply Replacement We Replacement Well Dewatering Well Dewatering Well Dewatering Well Deswatering Well	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/CPM)  Well production (I/min/CPM)  Please provide a  Please provide a	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Construction R  Material  Construction R  Construction R  Material  Construction	ecord - Casin Wall Thickness (cmsin) .188  ecord - Scree Slot Mar.  indus  indu	estic stock at the	Common Municipal	Status of Well  Status of Well  Water Supply Replacement We Recharge Well Observation and Monitoring Hole Alteration (Construction) Abandoned, ploe Water Quality Abandoned, othe specify  Other, specify  Hole Diameter  pth (mb) 178  Gland	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/CPM)  Well production (I/min/CPM)  Please provide a I/min/CPM  Please provide a I/min	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 20 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Cable Tool Rotary (Conver Rotary (Reverse Rota	Construction Robert Hole  Construction Rober	ecord - Casin Wall Thickness (cmsin) .188  ecord - Scree Slot Mar.  indus  indu	pestic stock at the stock at th	Common Municipal	Status of Well  Status of Well  Water Supply Replacement We Replacement Well Dewatering Well Dewatering Well Dewatering Well Deswatering Well	Pumping rate (I/m 20 Duration of pump 1 hrs + Final water level e 23.9 If flowing give rate Recommended p (I/min/GPM)  Well production (I/min/GPM)  Please provide a  Well owner's D  Well owner's D	in GPM)  ing min  min of pumping (m/ft)  ing (l/min/GPM)  ing (l/min/GPM)  ing pof M	3 4 5 10 25 30 40 50 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 5 10 10 15 20 25 30 40 50 60 70 77	TE R
Cable Tool Rotary (Conver Rotary (Reverse Rotary (Reverse) Rotary (Reverse Rotary (Reverse Rotary (Reverse Rotary (Reverse Rot	Construction Rependence of Water Det  Water Det  Construction Rependence of Waterial and State Galvanized, Storet  Water Det  Water Det  Construction Rependence of Waterial and State Galvanized, Storet  Water Det  Construction Rependence of Waterial State Galvanized, Storet  Waterial State Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Constr	ecord - Casin Wall Thickness (crisis) . 188  ecord - Scree Slot Max  English (crisis) . 188  Business I	estic stock atook attook stock atook	Common Municipal	Status of Well  Status of Well  Water Supply  Replacement We  Test Hole  Recharge Well  Dewatering Well  Dewatering Hole  Alteration  (Construction)  Abandoned, Poo  Water Quality  Abandoned, othe specify  Other, specify  Hole Diameter  pth (mb)  To (cmb)	Pumping rate (Vm 20 Duration of pumping rate (Vm 20 Duration of pumping in hirs + in large rate (Vm 23.9 If flowing give rate (Vm in Vs.) Please provide a large rate (Vm in Vs.) Please provide a large rate (Vm in Vs.) Please provide a large rate rate rate rate rate rate rate rat	in GPM) ing min and of pumping (m/ft) a (//min/GPM) imp depth (ing) imp depth	3 4 5 10 20 25 30 40 50 60 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 4 5 5 10 10 15 20 25 30 40 40 50 60 10 10 10 10 10 10 10 10 10 10 10 10 10	23. 23. 23. 23. 23. 23. 23. 23. 23. 24.
Cable Tool Rotary (Convertorate (Convertorat	Construction Rependence of Water Det  Water Det  Construction Rependence of Waterial and State Galvanized, Storet  Water Det  Water Det  Construction Rependence of Waterial and State Galvanized, Storet  Water Det  Construction Rependence of Waterial State Galvanized, Storet  Waterial State Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Construction Rependence of Water Galvanized, Storet  Water Det  Construction Rependence of Water Galvanized, Storet  Constr	ecord - Casir  Wall Thickness (criss)  188  ecord - Screen  Sign Man  Fresh   Sign Man  Ecify   Sign Man  Ending   Sign Man  End Man  En	pestic stock atom and the strial or, specify	Common Municipal	Status of Well    Status of Well   Water Supply   Replacement We   Test Hole   Recharge Well   Observation and Monitoring Hole   Alteration   (Construction)   Abandoned, Poor Water Quality   Abandoned, other specify   Other, specify   Other, specify   Hole Diameter pth (mb) Diameter (cmb)   Dia	Pumping rate (Vm 20  Duration of pumping and the pumping rate (Vm 20)  Duration of pumping and the pumping rate (Vm 23.9)  If flowing give rate 23.9  Recommended pumping rate (Vm 20)  Recommended pumping rate (	in GPM)  ing min  end of pumping (m/ti  ing min  end of pumping (m/ti  ing min  ing	3 4 5 10 20 25 30 40 50 60 60	23.6 23.7 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	3 4 4 5 10 10 15 20 25 30 40 60 60 60 Try Use	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.

Conservation and Parks				A360959	and the second s			n 903 C	Ontario Wa Page		Page of			
Nell Ow	ner's Info	rmation	^	1						27				
irst Name	•		Last Name/Org		F			E-mail Address				☐ Well (	Construct	
Mailing Add	dress (Stree	et Number/Nar		Gillian		Municipality		Province	Postal Cod	le	Telephone			
		Crescent				Kanata		ON	Act and a contract of	1 2W			11	
Vell Loca	ation			15.27.3	and the second									
		on (Street Nur	nber/Name) Concess	ion 12		Township Beckwith			Lot P/L	25	Concession 12	on		
	strict/Municip		Concess	12		City/Town/Village			172	Provi	nce	Postal	Code	
Lan	nark dinates Zon	Feetler	No	rthing		Ashton Municipal Plan and S	ublet blue	ark ar		Other	tario			
NAD		8 415		50030		widthcipal Flam and S	ablot Nui	,		7	MAZ	10	4	
		drock Mater	ials/Abandor			ord (see instructions of	n the bac	k of this form)		NO.		0		
General Co	Colour	Most Com	mon Material		Ot	her Materials		Gen	eral Description	on		From	th (mut)	
			Sand		25-							0 '	2	
Grey			Limest	tone								2'	77 '	
Grey			Limes	tone								77 '	173	
Grey			Limest	tone								173	180	
	1	7	- 10/0	71	11	1		_ X						
		£21	NOR	1	4	4	05	-4						
法的规			Annular S		t institu	QAXIDA DINE		(A) 20 (A)	Results of V	men in a laboration	the same of the sa	STATE OF THE CASE OF		
Depth Se From	et at (mm)		Type of Seala (Material and			Volume Placed	Afti	er test of well yield Clear and sand		Time	raw Down Water Lev		ecovery Water Lev	
40 /	30′	Neat o	ement			10.92		Other, specify		Ctatio	, ,	(min)	(m/ft)	
30 ′	o'	Bentor	nite slurry			4.2	lf p	umping discontinu	ed, give reasor	Level			24.3	
								X		1	21.	5 1	20.	
				_				mp intake set at (n	(mt))	2		9 2	40	
							Pu			1 2	21.	8 2	18.	
		AND THE PROPERTY OF THE PROPER		2021.62.07		NAME OF THE PARTY		170		3	22.			
TOTAL STRUCTURE	AFTER STATE OF THE	nstruction	1 Publi	ic	Well Us	Service of the service of	Pu			-		1 3	19.	
Cable Too	col Conventional)	☐ Diamono ☐ Jetting	Dom	nestic	Comme	ercial Not used	Puring Du	170 mping rate (Vmin ( 10 ration of pumping	(GPM)	3 4	22.	1 3	19.	
Cable Too Rotary (C	col Conventional)	☐ Diamono		nestic stock	Comme Municip Test Ho	ercial Not used	Pulling Du	170 mping rate (l/min ( 10 ration of pumping	GPM)	3 4 5	22. 22.	1 3 3 4 4 5	19. 19.	
Cable Too Rotary (C Rotary (R Boring Air percus	col Conventional) Reverse)	Diamono Jetting Driving	Dom Lives	nestic stock ation strial	Comme Municip Test Ho	ercial Not used al Dewater de Monitori	Puring Du Fin	mping rate (Vmin ( 10 ration of pumping 1 hrs + 0 at water level end 24.3 47	min of pumping (m/	3 4 5 10	22. 22. 22. 22.	1 3 3 4 4 5 8 10	19. 19. 19.	
Cable Too Rotary (C Rotary (R Boring Air percus	Conventional) Reverse) ussion pecify	☐ Diamond ☐ Jetting ☐ Driving ☐ Digging	Dom Lives Imiga Indus Othe	nestic stock ation strial er, specify	Comme Municip Test Ho	ercial Not used al Dewater Monitori & Air Conditioning	Pul di ing ng Fin	mping rate (l/min ( 10 ration of pumping 1 hrs + 0 at water level end	min of pumping (m/	3 4 5 10 15	22. 22. 22. 22. 23.	1 3 4 4 5 B 10 1 15	19. 19. 19 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) ussion pecify  Con Open Hole	Diamono  Jetting Driving Digging  Digging	Dom   Lives   Iniga   Indus   Othe   Casis	nestic stock ation strial er, specify _	Comme Municip Test Ho	ercial Not used al Dewater de Monitori	Pulling Du Fin	mping rate (Vmin ( 10 ration of pumping 1 hrs + 0 at water level end 24.3 47	min of pumping (m/	3 4 5 10	22. 22. 22. 22.	1 3 4 4 5 B 10 1 15	19. 19. 19 18.	
Cable Too Rotary (C Rotary (R Boring Air percus	Conventional) Reverse) ussion pecify Open Hole (Galvanize	Diamono  Jetting Driving Digging	Dom Lives Iniga Indus	nestic stock ation strial er, specify _	Comme Municip Test Ho Cooling	ercial Not used la Dewater le Monitori & Air Conditioning  Status of Well Water Supply Replacement We	Puil Du Iffic	mping rate (l/min (10) ration of pumping 1 hrs + 0 at water level end 24.3 from the commended pumping give rate (l/min (l	min of pumping (m/	3 4 5 10 15	22. 22. 22. 22. 23.	1 3 4 4 5 B 10 1 15 4 20	19. 19. 19. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) ussion pecify Open Hole (Galvanize	Diamond Jetting Driving Digging  nstruction R e OR Material ad, Fibreglass,	Dom   Lives   Iniga   Indus   Othe   Casis	nestic stock ation strial er, specify Depth	Comme Municip Test Ho Cooling	Status of Well  Status of Well  Replacement Well  Recharge Well	Pull Du Fin Fin Rei	mping rate (l/min (10) ration of pumping 1 hrs + 10 all water level end 24.3 when the commended pumping fint@PM)	min of pumping (m/	3 4 5 10 15 20	22. 22. 22. 23. 23.	1 3 4 4 5 B 10 1 15 4 20 B 25	19. 19. 19. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) ussion pecify  Col  Open Hole (Galvanize Concrete,	Diamonu Diating Driving Driving Diaging  nstruction R e OR Material d, Fibreglass, Plastic, Steel)	Lives   Iniga   Indus   Indu	nestic stock ation strial er, specify  Depth From	Comme Municip Test Ho Cooling	ercial Not used la Dewater le Monitori & Air Conditioning  Status of Well Water Supply Replacement Well Test Hole	Pui di ng pui ng Fin iffic Receive Rec	mping rate (l/min ( 10 ration of pumping 4 hrs + 6 at water level end 24.3 from the commended pumping fine (FMI)	min of pumping (m/	3 4 5 10 15 20 25	22. 22. 22. 23. 23. 23.	1 3 4 4 5 B 10 1 15 4 20 B 25	19. 19. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) Ussion Decify Con Open Hold (Galvanize Concrete,	Diamonu Diating Driving Driving Diaging  nstruction R e OR Material d, Fibreglass, Plastic, Steel)	Lives   Iniga   Indus   Indu	nestic stock ation strial ar, specify ng Depth From +2/	Comme Municip Test Ho	status of Well Water Supply Replacement We Test Hole Recharge Well Observation and Monitoring Hole	Pui di ng pui ng Fin iffic Receive Rec	mping rate (l/min (10) ration of pumping 1 hrs + 10 all water level end 24.3 when the commended pumping fint@PM)	min of pumping (m/	3 4 5 10 15 20 25 30	22. 22. 22. 23. 23. 23. 23.	1 3 4 4 5 B 10 1 15 4 20 B 25 B 30 40	19. 19. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) Ussion Decify Con Open Hold (Galvanize Concrete,	Diamonu Diating Driving Driving Diaging  nstruction R e OR Material d, Fibreglass, Plastic, Steel)	Lives   Iniga   Indus   Indu	nestic stock ation strial ar, specify ng Depth From +2/	Comme Municip Test Ho	Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Well Cobservation and Monitoring Hole Alteration (Construction)	Puiling Du Fin If flow	mping rate (l/min (10) ration of pumping 1 hrs + 10 at water level end 24.3 4 commended pumping 1 hrs + 10 commended pumping (PM) (longer level	min of pumping (m/	3 4 5 10 15 20 25 30 40	22. 22. 22. 23. 23. 23. 23. 24.	1 3 4 5 B 10 1 15 4 20 B 25 B 30 40 2 50	19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (R Boring Air percus Other, sp	Conventional) Reverse) ussion pecify Coi Open Holi (Galvanize Concrete, Steel Open	Diamond Dietting Diving Digging Diggin	Dom   Lives	nestic stock attorn strial strial or, specify	Comme Municip Test Ho	Status of Well  Status of Well  Water Supply  Replacement Well  Dewatering Well  Dewatering Well  Deservation and Monitoring Hole  Alteration (Construction)  Abandoned, Insufficient Suppl	Puling Du Iffice Reing R	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 mation of pumping 24.3 mation of pumping give rate (l/min 10 mation) (l/min 10 mat	min of pumping (m/ nin/GPM) p depth (nm) p rate	3 4 5 10 15 20 25 30 40 50 60	22. 22. 22. 22. 23. 23. 23. 23. 24. 24. 24. 24. 24. 24. 24. 24. 24. 24	1 3 4 5 B 10 1 15 4 20 B 25 B 30 40 2 50	19 19 18 18 18 18 18 18	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse Conventional Reverse Conventional Reverse Conventional Reverse Convention Conv	Diamond Diguing Driving Driving Digging Diggin	Dom   Lives	nestic stock attorn strial strial or, specify	Comme Municipal	Status of Well Water Supply Replacement We Dewatering Well Water Supply Replacement We Test Hole Recharge Well Dewatering Well Desarvation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, Poo Water Quality	Pull did no	mping rate (l/min (10) ration of pumping 1 hrs + 10 at water level end 24.3 4 commended pumping 1 hrs + 10 commended pumping (PM) (longer level	min of pumping (m/ nin/GPM) or depth (nmt) or rate  Map of N	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19 19 18 18 18 18 18 18	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse Conventional Reverse Conventional Reverse Conventional Reverse Convention Conv	Diamond Dietting Diving Digging Diggin	Dom   Lives	estic stock atton strial strial or, specify ng Depth From +2 / 40 /	Comme Municipal	Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Well Dewatering Well Dewatering Hole Alteration (Construction) Abandoned, Instifficient Supp	Pull did no	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) o depth (not) o rate  Map of V ap below follow	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse Conventional Reverse Conventional Reverse Conventional Reverse Convention Conv	Diamond Diguing Driving Driving Digging Diggin	Dom   Lives	nestic stock attorn strial strial or, specify	Comme Municipal	Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Well Dewatering Well Dewatering Hole Alteration (Construction) Abandoned, Insufficient Suppl Abandoned, Poo Water Quality Abandoned, othe specify	Pull did no	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) or depth (nmt) or rate  Map of N	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse Conventional Reverse Conventional Reverse Conventional Reverse Convention Conv	Diamond Diguing Driving Driving Digging Diggin	Dom   Lives	nestic stock attorn strial strial or, specify	Comme Municipal	Status of Well Water Supply Replacement Well Dewatering Well Water Supply Replacement Well Dewatering Well Dewatering Well Deservation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Water Quality Abandoned, opony	Pull did no	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) o depth (not) o rate  Map of V ap below follow	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse Conventional Reverse Conventional Reverse Conventional Reverse Convention Conv	Diamond Diguing Driving Driving Digging Diggin	Dom   Lives	nestic stock attorn strial strial or, specify	Comme	Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Dewatering Well Dewatering Well Dewatering Hole Alteration (Construction) Abandoned, Insufficient Suppl Abandoned, Poo Water Quality Abandoned, othe specify	Pull did no	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) o depth (not) o rate  Map of V ap below follow	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary	Conventional Reverse) ussion pecify  Con Open Holi (Galvanize Conorete, Cono	Diamond Diamond Digging Driving Digging Digging  Instruction R OR Material Ad, Fibreglass, Plastic, Steel)  Hole  Instruction R	Color   Colo	nestic stock attorn strial strial or, specify	Comme Municipal Test Hold Cooling  To 40'  180'	Status of Well  Status of Well  Water Supply Replacement Well Dewatering Well Dewatering Well Deservation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, Poo Water Quality Abandoned, othe specify  Other, specify  Hole Diameter th (10th) Diameter	Puling Du Iffice Reight	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) o depth (not) o rate  Map of V ap below follow	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary (R Rotary (C Rotary (R Rotary	Conventional) Reverse) ussion pecify  Con Open Holi (Galvanize Conorete, Mi (Plastic, Ga d at Depth (H) Gas	Diamond Diamond Dietting Diving Digging  Instruction R  R  R  R  R  R  R  R  R  R  R  R  R	Dom   Lives	estic stock attorn strial art specify	Comme Municipal Test Hold Cooling  To 400  1800	Status of Well Water Supply Replacement Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Deservation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, Poo Water Quality Abandoned, othe specify  Other, specify  Hole Diameter To (cmt	Puling Du Iffice Reight	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 powing give rate (l/min 10 mation) and local pumping line (ePM) compreheded pumping (ePM) comprehede	min of pumping (m/ nin/GPM) o depth (not) o rate  Map of V ap below follow	3 4 5 10 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (R Rotary (C Rotary (R Rotary	Conventional) Reverse) ussion pecify  Con Open Holi (Galvanize Conorete, Will (Plastic, Ga d at Depth Hit) Gas	Diamond Diamond Dietting Diving Digging  Instruction R  OR Material Ad, Fibreglass, Plastic, Steel)  Hole  Mater De  Kind of Water Other, spe Kind of Water	Dom   Lives	nestic stock attorn strial strial or, specify	Comme Municipal Test Hold Cooling  To 40'  180'	Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Observation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Suppl Abandoned, other specify Other, specify    Other, specify   Diameter the (Total Diameter To (Construction)   Abandoned, other specify   Other (Construction)   Abandoned, other specify   Other (Construction)   Abandoned, other specify   Other (Construction)   Abandoned (Construction)   Abandoned (Construction)   Other	Puling Du Iffice Resolution West Pier.	mping rate (l/min 10 mation of pumping at level end 24.3 from the level end 25 from th	min of pumping (m/ min/GPM) of depth (n/m) or ate  Map of N ap below follow	3 4 5 10 15 20 25 30 40 50 60 Well Low	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (C Rotary (R Rotary (C Rotary (R Rotary	Col Conventional Reverse)  assion Decify  Con Open Hole (Galvanize Concrete,	Diamond Diamond Dietting Diving Digging Digging  nstruction R e OR Material sd, Fibreglass, Plastic, Steel)  Hole  Mater De Kind of Water Other, spe Kind of Water Other, spe Kind of Water	Dom   Lives	estic stock attorn strial art specify	Comme Municipal Test Hold Cooling  To 40'  180'	Status of Well Water Supply Replacement Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Observation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, che specify Other, specify  Hole Diameter To (cmt	Puling Du Iffice Reight	mping rate (l/min 10 mation of pumping at level end 24.3 from the level end 25 from th	min of pumping (m/ min/GPM) of depth (n/m) or ate  Map of N ap below follow	3 4 5 10 15 20 25 30 40 50 60 Well Low	22. 22. 22. 23. 23. 23. 24. 24. 24. 24. cation	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (C Rotary (R Rotary (C Rotary (R Rotary	Col Conventional Reverse)  Justical Conventional Col Copen Holi (Galvanize Concrete, C	Diamond Digging Digging Digging Digging Digging Digging Digging Digging Naturation R Office Stock  Water De Kind of Water Other, spe Kind of Water Other, spe Kind of Water Other, spe Kind of Water	Dom   Lives	pestic stock attended to the stock attended	Comme Municip Test Ho	Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Deservation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, Option Dewater Quality Abandoned, on the specify Diameter the (note) Diameter the (note) Diameter To Construction Diameter Dia	Puling Du Iffice Resident Resi	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 moving give rate (l/min 24.3	min of pumping (m/ nin/GPM) or atle dSPM)  Map of ( AMSA)	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 20. 20.	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (C Rotary (C Rotary (R Rotary (R Rotary (C Rotary (R Rotary (R Rotary (C Rotary (R Rotary (C Rotary (R Rotary (C Rotary (R Rotary (C Rotary (R Rotary (R Rotary (C Rotary (R Rotary	Col Conventional Reverse)  Justical Conventional Col Copen Holi (Galvanize Concrete, C	Diamond Diamond Dietting Dirting Digging Digging Digging  Naturation Relation Stock Control of Water Control	Dom   Lives	pestic stock attended to the stock attended	Comme Municipal Test Hold Cooling  To 400  1800  Dep From	Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Deservation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supp Abandoned, Option Dewater Quality Abandoned, on the specify Diameter the (note) Diameter the (note) Diameter To Construction Diameter Dia	Puling Du inf fice in inf fice	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 moving give rate (l/min 24.3	min of pumping (m/ min/GPM) of depth (n/m) or ate  Map of N ap below follow	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 20. 20.	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (C Rotary (C Rotary (R Rotary (C Rotary	Conventional) Reverse)  Sission Decify  Conventional Sission Decify  Conventional Sission Decify  Conventional Minus (Plastic, Ga  dat Depth Minus dat Depth M	Diamond Dietting Dietting Dirving Digging Digging  Instruction R OR Material Ad, Fibreglass, Plastic, Stoel)  Hole  Instruction R  aterial Ivanized, Steel)  Water Det  Kind of Water Other, spe Kind of Water Other, spe Kind of Water Other, spe Kind of Water Contractor Og Co. Ltd.	Dom Lives   Iniga   Indus   Other   Other   Iniga   Indus   Other   Iniga   Indus   Iniga   In	pestic stock attended to the stock attended	Comme    Municip   Test Ho   Cooling  (name)   To   40'   180'   To   Dep   From   W. Cooling	Status of Well Water Supply Replacement Well Secharge Well Dewatering Well Dewatering Well Observation and Monitoring Hole Alteration (Construction) Abandoned, Insufficient Suppl Abandoned, Other, specify Other, specify Diameter (circle) Diameter	Puling Du inf fice in inf fice	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 moving give rate (l/min 24.3	min of pumping (m/ nin/GPM) or atle dSPM)  Map of ( AMSA)	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 20. 20.	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 18. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary (C Rotary (C Rotary (R Rotary (C Rotary	Conventional) Reverse)  Sission Decify  Conventional Sission Decify  Conventional Sission Decify  Conventional Minus (Plastic, Ga  dat Depth Minus dat Depth M	Diamond Diating Ditting Disting Disging Disging Disging Disging Disging  National Release Control  Water De  Kind of Water Other, spe Contractor	Dom Lives   Iniga   Indus   Other   Other   Iniga   Indus   Other   Iniga   Indus   Iniga   In	pestic stock attended to the stock attended	Comme    Municip   Test Ho   Cooling  (name)   To   40'   180'   To   Dep   From   W. Cooling	Status of Well Water Supply Replacement Well Dewater Supply Replacement Well Dewatering Well Dewater Guerrich Well Dew	Puling Du Iffice Revolution We Ple Iffice Revolution We Ple Iffice Revolution	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 moving give rate (l/min 24.3	min of pumping (m/ nin/GPM) or atle dSPM)  Map of ( AMSA)	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 20. 20.	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18. 7	
Cable Too Rotary (C Rotary	Conventional) Reverse)  Justion Conventional Reverse)  Justion Conventional Conventional Conventional Conventional Convention Conven	Diamond Diating Disting Disting Disging Disging Disging Disging Disging Discounting Correction Research Distruction Research Distructio	Company   Comp	nestic stock attorn strial attorn strial or, specify	Comme Municip Test Ho Cooling  10 (note) To 400′  1800′  Dep From  Information	Status of Well Water Supply Replacement Well Dewater Supply Replacement Well Dewatering Well Dewater Quality Abandoned, Power Water Quality Abandoned, other specify Diameter the (mg) Diameter To Confusion Well Contractor's Licence 7481	Puling Du Iffice Revolution We Ple Iffice Revolution We Ple Iffice Revolution	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 gowing give rate (l/min commended pumping (l/min level)   0 mineded?   No makes provide a material production (l/mineded?   No makes provide a material production (l/mineded?   No mineded?   No makes provide a material production (l/mineded?   No mineded?   No mineded.   No min	min of pumping (m/ nin/GPM) or atle dSPM)  Map of ( AMSA)	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 20. 20.	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary	Col Conventional Reverse)  assion pecify  Concrete Concrete, Concr	Diamond Digging Diving Digging Driving Digging Driving Digging Driving Digging  Material sd, Fibreglass, Fibreglass, Flastic, Steel)  Hole  Mater De Kind of Water Dother, spe Kind of Water Other, spe Kind of Water Contractor Contractor GC C. Ltd. Set Number/National	Company   Comp	pestic stock attorn strial attorn strial pr. specify	Comme Municipal Test Hold Cooling  To 40'  180'  Dep From  Information  W. C. Cooling	Status of Well  Status of Well  Water Supply  Replacement Well  Dewatering Well  Observation and Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Supp  Abandoned, othe specify  Other, specify  Hole Diameter  th (ruft)  To  Other, specify  Bion  To  To  To  To  To  To  To  To  To	Puling Du inf fice in the puling ing Fin Re-control in the puling ing Fin Puling	mping rate (l/min 10 mation of pumping 1 hrs + 0 mat water level end 24.3 owing give rate (l/min commended pumpin commen	min of pumping (m/ nin/GPM) or atle dSPM)  Map of ( AMSA)	3 4 5 10 15 20 25 30 40 50 60 Well Low	22. 22. 22. 23. 23. 23. 24. 24. 24. 26.  Continuous on the continuous of the continuous on the continu	1 3 4 4 5 8 10 1 15 4 20 8 25 8 30 40 2 50 3 60	19. 19. 19. 18. 18. 18. 18. 18. 18. 18. 18.	
Cable Too Rotary (C Rotary	Conventional) Reverse)  In Steel  Open Holi (Galvanize Conorrete,	Diamond Digging Diving Digging Driving Digging Driving Digging Driving Digging  Material sd, Fibreglass, Fibreglass, Flastic, Steel)  Hole  Mater De Kind of Water Dother, spe Kind of Water Other, spe Kind of Water Contractor Contractor GC C. Ltd. Set Number/National	Lails  Tipes (cm/ds)  All Thickness (cm/ds)  Business is  Business is  ame)	pestic stock attorn strial attorn strial pr. specify	Comme Municip Test Ho Cooling  10 (not) To 40' 180'  10 Dep From  10 D	Status of Well  Status of Well  Water Supply  Replacement Well  Dewatering Well  Observation and Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Supp  Abandoned, othe specify  Other, specify  Hole Diameter  th (ruft)  To  Other, specify  Bion  To  To  To  To  To  To  To  To  To	Puling Du Infide Real (I/m We Info Pale Info P	mping rate (l/min 10 mation of pumping rate (l/min 10 mation of pumping 1 hrs + 0 mation at water level end 24.3 mation with a mation key of the commended pumping give rate (l/min 10 mation (l/min 10 mation key)   O mation (l/min 10 mation key)   O mation (l/min 10 mation key)   O mation key of the commendation key o	min of pumping (m/ nin/GPM) p depth (not) p rate disPM)  Map of ( AMSA)  Package Delive	3 4 5 10 15 20 25 30 40 50 60 Well Loo	22. 22. 22. 23. 23. 23. 24. 24. 24. 26.	1 3 3 4 4 5 8 10 1 15 4 20 6 25 8 30 40 2 50 3 60 The back	19 19 18 18 18 18 18 18 18 7	
Cable Too Rotary (C Rotary	Conventional) Reverse)  Reverse)  Reverse)  Reverse)  Reverse)  Concrete, Co	Diamond Diamond Diging Diging Digging	Dom   Lives	estic stock attorn strial strial or, specify	Comme Municipal	Status of Well  Status of Well  Water Supply  Replacement Well  Dewatering Well  Dewatering Well  Dewatering Well  Dewatering Well  Dewatering Well  Deswatering Well  Deswatering Well  Deswatering Well  Dewatering Well  Dewatering Well  Dewatering Well  Doservation and  Monitoring Hole  Alteration  (Construction)  Abandoned, Insufficient Supp  Abandoned, othe specify  Other, specify  Other, specify  Rion  1 188 6	Puling page Fin Puling Read (I/r) We page Fin Puling Read (I/r) We page Fin Puling Read (I/r) Puling R	mping rate (l/min 10 mation of pumping rate (l/min 10 mation of pumping 1 hrs + 0 mation of pumping give rate (l/min 10 mation mation l/min 10 mation mation l/min 10 mation l	min of pumping (m/ min/GPM) of depth (not) of pumping (m/ profile) of pumping	3 4 5 10 15 20 25 30 40 60 Well Loop Portion	22. 22. 22. 23. 23. 23. 24. 24. 24. 26.  Continuous on the continuous of the continuous on the continu	1 3 3 4 4 5 8 10 1 15 4 20 6 25 8 30 40 2 50 3 60 The back	19 19 18 18 18 18 18 18 18 7	

UTM | 1 | 8 | 2 | 4 | 1 | 4 | 5 | 1 | 0 | E |

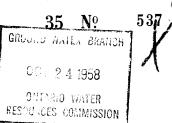
| 9 | R | 5 | 0 | 0 | 3 | 2 | 7 | 0 | N

Elev. 9 | R | 0 | 4 | 4 | 0 |

Baking | 7 | 8 | 4 | 4 | 1 | 3 | 7 | F | The Water-well Drillers Act, 1954

Baking | 7 | 8 | 4 | 4 | 1 | 3 | 7 | F | Department of Mines





	Wateı	r-We	ll Recor	d	
k	AN R.P.		ip, Village, Town or C Village, Town or C Address		
Date completed(day)	(month)	(year)			,
Pipe and Casing	Record			Pumping Test	
Casing diameter(s)			Static level	7 0 9 R.M · -5 2 M.R ·	
Well Log		•		Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
TOP SOUL	0 3	3 59	40 5°5'	3 &	FRESH,
or what purpose(s) is the water  FRRM  s water clear or cloudy?	らって, hillside?		In diagram below	cation of Well show distances of . Indicate north	
Orilling firm C. G. C. C. R. E. R. Address VERONA.  Name of Driller M. C. G. C. A. Y. T. O. G. C. C. A. Y. T. O. G. C.	<i>ē.</i> ē		21,18	2007	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
I certify that the statements of fact	foregoing are true.		*	,T,	→25° (

Ministry of the Environment

# The Ontario Water Resources Act WATER WELL RECORD

ntario		SPACES PROVIDED RECT BOX WHERE APPLICABLE		35068	60 <u>350</u>	02 601	V
OUNTY OR DISTRICT		13 FC K	ITY, TOWN, VILLAGE	4	CON BLOCK TRACT	SURVEY, ETC	026
			<u>~</u>			DATE COMPLE	TED (1163
		The C	21.00 1	ב ביייין ביייין	RC BASIN CODE	DAY	ти т
<i>-</i>	M IQ IZ	, D,O	3,49,91 1	<u> </u>			<u> </u>
		OG OF OVERBURDE	N AND BEDRO	OCK MATERIA	LS (SEE INSTRUCTIONS)		DEPTH - FEET
ENERAL COLOUR	MOST COMMON MATERIAL	OTHER M	MATERIALS		GENERAL DESCRIPTION	ON -	FROM
Brown.	Sand.				Fine		0 2
Brown.	Shail			So	· <del>-</del>		2 61
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
							2
				,			r à l
						· V	
						*	
			• .				
31) acos	108 11 006	161785	111111	عللسبا إ	تلليتنا لتلتا	سنا لبلبل	لبلبليل
32	4 15 21		<u> 111111</u>	<u> </u>	SIZE S) OF OPENING	31-33 DIAMETER	34-38 LENGTH
<del></del>	R RECORD	Wine .	WALL WALL	RECORD DEPTH - FEET	MATERIAL AND TYPE	31-33	INCHES
AT - FEET	KIND OF WATER FRESH 3 A SULPHUR 14	DIAM MATERIAL		RUM TO	MATERIAL AND TYPE	01	F SCREEN 41
54 10 5	SALTY 4 () MINERAL	06 2 GALVANIZED		13-16			
1.0.	FRESH 3   SULPHUR 19 SALTY 4   MINERAL	4 OPEN HOLE	188	O(002 /	61 PLUG	GING & SEALIN	(CEMENT GRO)
	FRESH 3 [] SULPHUR <sup>24</sup> SALTY 4 [] MINERAL	t GALVANIZEI		\	FROM TO	MATERIAL AND T	PE LEAD PACKER E
25-28 1 [] [	FRESH 3   SULPHUR <sup>29</sup> SALTY 4   MINERAL	4 G OPEN HOLE		27-30	18-21 22-2		
·· 30-33 1 🗆 1	FRESH 3 [] SULPHUR 34 6	2 GALVANIZEI 3 GONCRETE			26-29 30-3	3 80	
2 U S	D : 10 PUMPING RAT	4 OPEN HOLE		 1 [		N 05 W511	· · · · · ·
7 1 1 1 7	A BAILER 00 S	9 10/	15-16 00 17-18 HOURS MINS			N OF WELL	
STATIC LEVEL	WATER LEVEL 25 END OF WATER I		□ PUMPING <b>#</b> RECOVERY	IN DI	AGRAM BELOW SHOW DIST LINE INDICATE NORTH	IANCES OF WELL FR BY ARROW.	OM ROAD AND
0/<-	22-24 15 MINUTES		TES   60 MINUTES   35-37				// \>
	SE-41 PUMP INTAKE	EST AT WATER AT EN	FEET FEET ND OF TEST 42	•		_ //	/ 🔊
F FLOWING. GIVE RATE  RECOMMENDED PUMP	GPM TYPE RECOMMENDE	FEET 1 A CLE					V7
[] SHALLOW	PUMP	PUMPING	00/8 GPM	] [	a	257	
50-53				1 6		), <del>{</del>	
FINAL STATUS	1 1 WATER SUPPLY 2 OBSERVATION WE		SUFFICIENT SUPPLY OR QUALITY	100	30.		
OF WELL /	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED		10 10 10 10 10 10 10 10 10 10 10 10 10 1		. //	
SS-S	2 STOCK	S COMMERCIAL  MUNICIPAL			We to it	//	
WATER USE 0/	3   IRRIGATION 4   INDUSTRIAL	7 DUBLIC SUPPLY  COOLING OR AIR CO			· Str		
51	OTHER		NOT USED		A	0.	
METHOD OF	2 CABLE TOOL 2 CONVEN 3 CONTARY (REVERS		N D	-	₽.		July 1
DRILLING	4 AIR PERCUSSION	9 DRIVING		DRILLERS REMAR			W
NAME OF WELL CO			LICENCE NUMBER	l loata	• 58 CONTRACTOR	59-6 AT CE TO	0 0 4
		FRON	1567.	SOURCE DATE OF INSP	1 1567	Ψ Z O 8	8 <b>84</b> '
BOYD	CITIA			I O Instrument	ECTION T		
ADDRESS R R			BNT	O DATE OF INSP	ECTION INSPE	CTOR	
ADDRESS NAME OF DRILLER	2 GLA		BNT LICENCE NUMBER	S REMARKS	ECTION INSPE		~~~
RR	2 CLA		LICENCE NUMBER	38	ECTION INSPE		CSS.ES



the community of the contract of the contract

# The Ontario Water Resources Act WATER WELL RECORD

Ontario	I. PRINT ONLY IN	SPACES PROVIDED	11	35084	94 35002	CON.		Rosts
COUNTY OR DISTRICT	2. CHECK (25 CORR	TOWNSHIP, BOROUGH C			CON . BLOCK, TRACT, SURVE	Y ETC		LOT 25-27
Xana	2847 2847	ADDRESS	ith .		/2	DATE COMP	PLETED O	26
L.,	ZONE EASTING	1060 CL	polivdor	Que, (	SE A NOW CODE	DAY	<u>/ wo 9</u>	
21			ellawa				<u> </u>	ليتا
	LC	OG OF OVERBURDI	N AND BEDRO	CK MATERIAL	S (SEE INSTRUCTIONS)			
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER	MATERIALS		GENERAL DESCRIPTION		DEPTH FROM	TO
	Clay						0'	3
blacky								
Oreen	sandstone						3'	30
may	sandston						30'	83
gray.	sandstone	J					83'	1251
			,,					
		5						
31	تتنا ليلتليل	سا ليلتليل	ليليليل	لتللبتنا	علىللىنىالىك	سا لتا	بلبلب	لا لِبل
32	14 15		للللللل	<u> </u>	SS OF OPENING	31-33 DIAME	TER 34-38 1	75 80 LENGTH 39-40
	TER RECORD	INSIDE	S OPEN HOLE F	RECORD DEPTH - FEET	SIZE(S) OF OPENING	31.33 DIAME	INCHES	FEET SELECT
WATER FOUND AT - FEET	FRESH 3 SULPHUR	DIAM MATERIAL	THICKNESS INCHES FR		MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30
	SALTY 4 MINERALS 6 GAS	2 GALVANIZED 3 CONCRETE	188 0	22""			1	FEET
2 0	FRESH 3 ESULPHUR 19 SALTY 6 GAS	4 OPEN HOLE 5 PLASTIC	19	20-23	DEPTH SET AT - FEET		ING RECO	NT GROUT
	] FRESH 3 □SULPHUR 24 1 □ SALTY 6 □GAS	1 OSTEEL 2 OGALVANIZED 3 OCONCRETE 4 OPEN HOLE			FROM TO 14-17	MATERIAL AND		CKER ETC )
	FRESH 3 SULPHUR 29 SALTY 6 GAS	5 DPLASTIC	26	27.30		emer	Л	
30-33 1	FRESH 3 DSULPHUR 34 10	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE			26-29 30-33 80			
PUMPING TEST'ME	SALIT B LIGAS	5 U PLASTIC	5 BUMBURG					
71 PUMP	BAILER 5	GPM	15-16 30 17-18 HOURS 30 NINS		LOCATION	FWEL	L	
STATIC LEVEL	WATER LEVEL 25 END OF WATER L PUMPING	EVELS DURING 2	BUMPING RECOVERY	IN DIAC LOT LII	GRAM BELOW SHOW DISTANCE NE INDICATE NORTH BY A		FROM ROAD A	ND
ES 28""	22-24 IS MINUTES 26-2	30 MINUTES 45 MINU 29-31	1ES 60 MINUTES 32-34 29 35-37	A	ew e on e	L	1	1
S IF FLOWING GIVE RATE	T FEET FEI 38-41 PUMP INTAKE	SET AT WATER AT E	ND OF TEST 42		1000			
RECOMMENDED PU	GPM 125	PEET	EAR 2 CLOUDY				_	
☐ SHALLOV	PUMP	105 43-45 RECOMMEND PUMPING RATE	S GPM					
10-53							1	}
FINAL STATUS	1 WATER SUPPLY 2 OBSERVATION WEI						- 1	-
OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED  DEWATERING						j
	5-56 1 DOMESTIC	S COMMERCIAL MUNICIPAL	]				1	1
WATER USE	3   IRRIGATION 4   INDUSTRIAL	PUBLIC SUPPLY COOLING OR AIR CO						1
	OTHER		NOT USED					Ì
METHOD OF	CABLE TOOL ROTARY (CONVEN		N D					
CONSTRUCTI	ON PROTARY (AIR)  AIR PERCUSSION	9 DIGGIN	G	DRILLERS REMARKS	Hy No	7	′ 41	124
NAME OF WELL		lw	ELL CONTRACTOR'S	DATA	58 CONTRACTOR 59-62	DATE RECEIVED		63-66 80
1 1 20	1 Hall Lt		2558	DATE OF INSPEC	2558	OCT		
ADDRESS ADDRESS	Clonolds 1	orners On	1.	LLI	TION INSPECTOR			
ADDRESS NAME OF WEI	LE TECHNICIAN	l w	ELL TECHNICIAN'S	REMARKS	· · · · · · · · · · · · · · · · · · ·		W-4 C-4 C-4	7.0
SIGNATURE OF	TECHNICIAN/CONTRACTOR	SUBMISSION DATE	9 50	FFICE			CSS	.ES
Stif	Nall		10 7 YR	9191		FC	RM NO. 0506 (	11/86) FORM 9
MINISTRY	OF THE ENVIRON	MENT COPY	and the second s					

TO STATE STA	of the		WAT	The Ontario Water Resor	RECORD
TO COUNTY STATUS  STAT	Ontario		PACES PROVIDED	3508646 plaza	)Z
THE CONTROL OF OVERHUNDER AND BEDROCK MATERIALS SALE ACCIDENCE OF THE CONTROL OF	OUNTY OR DISTRICT		ECT BOX WHERE APPLICABLE 1 2	1 1000 1 17	RVEY ETC LOT 25-27
LOQ OF OVERBURDEN AND BEDROCK MATERIALS SET INTERECTIONS  OTHER VATERIALS	I A	hin Or	RECKWITH		DATE COMPLETED 48-53
LOG OF OVERBURDEN AND BEDROCK MATERIALS NAME WITHOUT TO STORY AND STORY			RR 2 AS	SHTON	DAY MO IN
LOG OF OVERBURDEN AND SEDROCK MATERIALS ARE INCREMENTED.  SERVICE COMMAND STATUS.  SERVICE			NG RC.		<u></u>
THE PROPERTY OF THE PROPERTY O	1 2		OG OF OVERBURDEN AND BEDRO		
ERONIN CLAY SAND STORK'S PARKED 0' 7'  GREY LIMESTONE BLACK LI	GENERAL COLOUR		OTHER MATERIALS	GENERAL DESCRIPTION	
## PLUGGING & SEALING RECORD    STATE   STATE	30m.1N)		ND STONE'S	PACKED	0' 7'
CHACK LIMESTONE    Continue   Con	•				7' 40'
MATER RECORD    STATE   CONTINUE NAME   CONTIN		1		PORCUS	40' 55'
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST	DATIGIC	FILLER			
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
WATER RECORD  SET OF STATE 3 DESCRIPTION  THE STATE ST					
AT WATER RECORD  STATE OF STATE OF CONTROL STATE OF CONTR					
WATER RECORD  SIND ON MATER  SANDOW SANDOW MATER  S	31	سا لىلىللى			البلبلبلبالب
STATE OF STA	32	14 15		43 SUFERS OF OPENING	55 75 31-33 DIAMETER 34-38 LENGTH 39
Same	-		INSIDE	RECORD Z	INCHES F
Same   Continue   Co			DIAM MATERIAL THICKNESS INCHES FE	TO MATERIAL AND TYPE	OF SCREEN
TI OF THE STATE OF		6 □GAS	6/41 1 TSTEEL 1.88 C	21'	
TI WATER STATE   STATE	2	SALTY 6 DGAS	6" 5 □ PLASTIC	2 20-23 DEPTH SET AT FEET	CEMENT GROUT
DELICATION OF WELL    1	1 '	FRESH 3 LISULPHUR 4 D MINERALS	2 GALVANIZED 3 GCONCRETE 4 GOPEN HOLE		TVOC NO
TO TUMPINE TEST METINDO  10 PUMPINE TAST METINDO  11 PUMPINE TAST METINDO  12 TAST TAST TAST TO THE TAST TAST TO THE TAST TO THE TAST TAST TO THE TAST TAST TO THE TAST TO THE TAST TAST TO THE TAST TAST TO THE TAST TO THE TAST TAST T		FRESH 3 USULPHUR 4 I MINERALS	5 □ PLASTIC  24-25   □ STEEL  25   □ STEEL	27-30 18-21 22-25	PONT AND
THE CONSTRUCTION WELL CONTRACTORY  WATER CAPEL TOOL  STATU STATUS  FINAL  FINAL		FRESH 3 DSULPHUR 34 F	2 GALVANIZED 3 GONCRETE 4 GOPEN HOLE	26-29 30-33	FORIL 17 10 y
				LOCATION	OF WELL
STATIC  STATIC	7111	P ₹ 1 BAILER	O GPH HOURS MINS		
SHALLOW FOREP SETTING 70 FEET MATE OF SETTING 70 FEET	LEVEL	END OF WATER PUMPING	LEVELS DURING RECOVERY		
SHALLOW FOREP SETTING 70 FEET MATE OF SETTING 70 FEET	TES	26.5	20 29-31 32-34 55-37 ا	Huy = 7	<b>,</b>
SHALLOW FOREP SETTING 70 FEET MATE OF SETTING 70 FEET	IF FLOWING		SET AT WATER AT END OF TEST 42		
SHALLOW FOREP SETTING 70 FEET MATE OF SETTING 70 FEET	RECOMMENDED	PUMP TYPE RECOMMENDE	D 43-45 RECOMMENDED 46-49	1 3	
FINAL STATUS OF WELL  OF WELL  OF WELL  OF WELL  OF WELL  OF WELL  OF CONMERCIAL  OF COMMERCIAL  OF CONSTRUCTION  OF CON	☐ SHALL	OW DEEP PUMP	40 FEET RATE 8 GPM	5	4
TINAL STATUS OF WELL     COSSERVATION WELL   COMMERCIAL   DEWATERING   ST-14   MOMESTIC   COMMERCIAL   COMERCIAL   COMMERCIAL   COMMERCIAL   COMMERCIAL   COMMERCIAL   COMERCIAL   COMMERCIAL   COMMERCIAL   COMMERCIAL   COMMERCIAL   COME		***			<b>^</b>
OF WELL		2 GBSERVATION WE	LL . ABANDONED POOR QUALITY	20	là Tri
METHOD    CABLE TOOL   BORING   DIAMOND   DIAM	OF WELL	A   RECHARGE WELL	☐ DEWATERING	3 70.7 KM	END
METHOD    CONSTRUCTION   CONTRACTOR   CONTRA	WATER	2 STOCK	6 MUNICIPAL	8	
METHOD    CABLE TOOL   BORING   DIAMOND   CONSTRUCTION   CONSTRUCT		4 🔲 INDUSTRIAL	■ ☐ COOLING OR AIR CONDITIONING		
METHOD    GOTARY (CONVENTIONAL)   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTARY (REVERSE)   GOTER   GOTARY (REVERSE)   GOTARY (REVERS				0 3	
CONSTRUCTION   GRIVING OTHER DIGGING SOURCE SECONTACTOR'S SOURCE SECONTACTOR'S SOURCE		D   2   ROTARY (CONVE	NTIONAL) 7 🔲 DIAMOND		4.400.4
N. KAVANAGH & SON WELL TRILLING 3/42  NAME OF WELL TECHNICIAN'S LICENCE NUMBER  ADDRESS  NAME OF WELL TECHNICIAN'S LICENCE NUMBER  ADDRESS  AND A CARLITON PLACE  NAME OF WELL TECHNICIAN'S LICENCE NUMBER  48-194  SUBMISSION DATE  WDE  CSS.ES		TION 4 🗆 ROTARY (AIR)	DRIVING	DRILLERS REMARKS	44884
A L 2 CARLITON PLACE  NAME OF WELL TECHNICIAN'S  LICENCE NUMBER  48-194  SUBMISSION DATE  WDE  CSS.ES	NAME OF WE	LL CONTRACTOR,	WELL CONTRACTOR'S	DATA 56 CONTRACTOR 5	
REMARKS  A CARLITON PLACE  NAME OF WELL TECHNICIAN'S  LICENCE NUMBER  48-194  SUBMISSION DATE  WDE  CSS.ES  FENANKS  WDE  FENANKS  WDE  FENANKS  FE	S N. KAU	ANAGH E SON W		DATE OF INSPECTION INSPECT	
S SHANURE OF TEGINICIAN JOHN FILE TON DAY 12 MO 12 VR 86 0	N R	2 CARLETON	PLACE	I S I	
S SHARUPE OF TEGINICIAN GENERAL DAY 12 MO 12 VR 86 0	LON		well technicians licence number \$8-194		ree no
FORM NO. 0508 (11/88) FO	SUGNATURE		SUBMISSION DATE	MOE WOE	CBB.ES
		an oevilor	<del></del>	] [	FORM NO. 0506 (11/86) FOR



# The Ontario Water Resources Act WATER WELL RECORD

NTY OR DISTRICT	2 CHECK 🗵 CORREC	TOWNSHIP, BOROUGH, CITY, TOWN, V	TILLAGE		CON . BLOCK. THACT	. SURVEY. ETC		26
1.4	MICOF	ZECKWITT				DATE COM	_	14 - 53
		8 R 4	ALM	NIE,	RC BASIN CODE	DAY 2	7_ MO	YR. 5
2	10 12	17 18 2.			30 31			سيا
		G OF OVERBURDEN AND	BEDROCK M	MATERIAL			DEPTH	- FEET
IERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS			GENERAL DESCRIPT	ION	FROM	TO
3ROWN	FILL	SAND STONE	£'S		PACKET	)	0'	8'
GREY	LIMESTONE				HARD		8'	52
								ļ
1	عينا لتلبليا		عا لبلت	لبلب	للسالبك	عا لبلبل	بلبلب	لبل
2 10 1	4 15	32	ــــــــــــــــــــــــــــــــــــــ		SIZE IS 1 OF OPENING	31-33 DIAM		75 LENGTH 3
	R RECORD	51 CASING & OPEN	DEPTH	ORD - FEET	SIZE (S) OF OPENING		INCHES	
	FRESH 3 🗆 SULPHUR	DIAM MATERIAL THICKN	ESS FRUM	TO 13-16	MATERIAL AND TYP	ε	DEPTH TO TOP OF SCREEN	41-44 FEET
52 15-11 1 0	SALTY 4 MINERALS 6 GAS FRESH 3 DSULPHUR	6/4 1 STEEL 1.8	8 0'	22'		GGING & SEA	LING RECO	
2 0	SALTY 6 GAS	4 DPEN HOLE 5 PLASTIC  17-18 1 DSTEEL		20-23	DEPTH SET AT - FEET	MATERIAL AN	ICEM	ENT GROUT.
	FRESH 3 □SULPHUR 4 □ MINERALS SALTY 6 □ GAS	2 □ GALVANIZED 3 □ CONCRETE 4 ■ OPEN HOLE	22'	52'	FROM 10	TYPE	10	
2 🗆	FRESH 3 USULPHUR 4 UMINERALS SALTY 6 UGAS	6 5 T PLASTIC  24-25 1 STEEL 2 GALVANIZED		27-30		, , , , , , , , , , , , , , , , , , ,	RTLAND	)
30-33	FRESH 3 DSULPHUR 34 BO 4 DMINERALS SALTY 6 DGAS	3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC			26-29 30	-33 80		
PUMPING TEST METHO		II-14 DURATION OF PUMPING	17-18		LOCATI	ON OF WEI	-L	
STATIC	WATER LEVEL 25	GPM HOURS  1 PUMPIN	G MINS	IN DIA	GRAM BELOW SHOW D		FROM ROAD	AND
19-21	PUMPING 22-24 15 MINUTES 26-28	30 MINUTES 45 MINUTES 60	MINUTES 35-37				b	
IF FLOWING	30 FEET 30 FEE	30 FEET 30 FEET 3	30 FEET			$\mathscr{K}'$	40%	
IF FLOWING. GIVE RATE  RECOMMENDED PUMP	GPM	FEET 1 CLEAR 2	CLOUDY			10.9KM	1	
RECOMMENDED PUMP	PUMP	43-45 RECOMMENDED PUMPING 8	46·49 GPM		7,	vo' /	10	
50-53					, ×	1	174	
FINAL STATUS	water supply generation wel				′—	_/	15	
OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED DEWATERING						
SS:	2 STOCK	5 COMMERCIAL 6 MUNICIPAL					20	
WATER USE	3   IRRIGATION 4   INDUSTRIAL   OTHER	7 PUBLIC SUPPLY  B COOLING OR AIR CONDITIONING P NOT USED	.		HWY	. 7	*	******
s	,						AS	-
METHOD OF	CABLE TOOL  ROTARY (CONVENT  ROTARY (REVERSE	IONAL) 7 🗍 DIAMOND ) B 🗎 JETTING					7	340
ONSTRUCTIO	N 4   ROTARY (AIR) 5   AIR PERCUSSION	9   DRIVING   DIGGING   OT	HER DR	ILLERS REMAR	KS			
NAME OF WELL CO		WELL CONT	RACTOR'S	DATA SOURCE	51 CONTRACTOR 3 1 4	53-62 DATE RECEIV	V 0 6 19	00
M. KAVA		WELL DRIKLING 3M	NO NICON	DATE OF INSPE		PECTOR JUI	1 0 0 13	JU
$\mathbb{Z} L K K$	2 CARLE	TON PLAC.						
NAME OF WELL								
ADDRESS NAME OF WELL SIGNATURE OF	MONEEL	SUBMISSION DATE	90 0				CSS.	ES



### The Ontario Water Resources Act WATER WELL RECORD

Ontario	1. PRINT ONLY IN 2. CHECK 🔀 CORR	SPACES PROVIDED 11 ECT BOX WHERE APPLICABLE 12	] 3	35095	43	002	<u> </u>	114	112
COUNTY OR DISTRICT	IAAV	TOWNSHIP, BOROUGH, CITY, TOWN VI	LLAGE		CON . BLOCK. TR	ACT SURVEY.	ETC	ì	26
		$e^{-RU}$	$Q_{AQ}$	0	1/2		DATE COMPLETE	10	1.53
		11NG	CAK.	ELEVATION .	RC BASIN COD	1 <u>LO</u>	DAY	MO	YR
	M 10 12	17 18 24	25	26	30 31				1 1 1
1	L(	OG OF OVERBURDEN AND B	EDROC	K MATERIA				DEPTH	- FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS			GENERAL DESCRI	PTION		FROM	то
BROWN	EARTH				200	•		0'	2'
GREY	LIMESTON				HAR			2'	40'
GREY/BL	KK LIMESTO	INE SHALE			PORI	)VS		40'	95'
WATER FOUND AT - FEET 10-13   5 2   2	FER RECORD  KIND OF WATER  FARSH 3 SULPHUR  SALTY 4 MINERALS 6 GAS  FASH 3 SULPHUR  SALTY 6 GAS  AMINERALS 6 GAS	ST CASING & OPEN F  INSIDE DIAM MATERIAL THICKNES INCHES    WALL THICKNES INCHES   12   2   GALVANIZED   3   2   CONCRETE   3   3   CONCRETE   5   CONCRETE	S FRUM	PTH - FEET 10 13-16	DEPTH SET AT - FE	UGGING	& SEALING TERIAL AND TYPE	INCHES OTH TO TOP SCREEN	## 10 NT GROUT CREET C.)
25-26 1 2 2 30-33 1 2	FRESH 3   SULPHUR 4   SALTY 6   GAS     SALTY 6   GAS     FRESH 3   SULPHUR 29     SALTY 6   GAS     FRESH 3   SULPHUR 34     SALTY 6   GAS     THOO 10   PUMPING RAT	2   GALVANIZED   3   CONCRETE   4   OPEN HOLE   24-25   1   STEEL   2   GALVANIZED   3   CONCRETE   4   OPEN HOLE   5   DPLASTIC		27-30	26-29	7 7 22-25 30-33 40	YPE, POR	10 TLAN	<u></u>
[71]	Z NBAILER  WATER LEVEL END OF PUMPING 22-24  IS MINUTES 24-3  FEET  SB-41  FUMPINTARE  GPM  RECOMMENDE PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	EVELS DURING  2  RECOVERY  30 MINUTES 45 MINUTES 60 MI  29-31 J2-34  ET 45 FEET 4 FEET 4  SET AT WATER AT END OF TEST  FEET 1 CLEAR 2 5/4	35-37 SFEET	IN DIA LOT L	GRAM BELOW SHOW INDICATE NO	DISTANCES RTH BY ARR	OF WELL FRO	M ROAD A	
FINAL STATUS OF WELL "" WATER USE	WATER SUPPLY 2   OBSERVATION WE 3   TEST HOLE 4   PRCMARGE WELL 5-16 1   DOMESTIC 2   STOCK 3   IRRIGATION 4   INDUSTRIAL   OTHER	7 UNFINISHED DEWATERING  5 COMMERCIAL 7 DUBLIC SUPPLY 0 COOLING OR AIR CONDITIONING 9 NOT USED	UPPLY	XE:0 +	o,å Beckwi	RM TH	G	our Ba	OURN
METHOD OF CONSTRUCTION	5 AIR PERCUSSION	E)	!	DRILLERS REMAR					442
MAME OF WELL	NAGA 5 SON	WELL SHLING 3/4	ETOR'S BER	SOURCE DATE OF INSPE	SE CONTRACTOR	4 2 "	O VON	1 199	0 "
NAME OF WELL	2 L. TECHNICIAN A R.K.S. IKE KAVANI FROMINICIAN/CONTRACTOR	TOW PLACE WELL TECHNI LICENCE NUM T-019  DAY 13 MO. 10	CIAN'S	O DATE OF INSPE		NSPECTOR	_(	CSS	
MINISTRY	OF THE ENVIRON	MENT COPY		<u> </u>			FORM	NO. 0506 (1	11/86) FORM 9

# The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

3511611

Municipality	Con.			
35002	CON	 !	1	

			1	2				10	14	15		22 23 24	
County or District			Township/E	Borough/City/	Town/Villaĝe			Con bl	ock tract	survey,	etc. Lo		
Lanark Owner's surname	e 28-47 Firs	th					12		26				
	_	t name	Address			(	Carleton	Place	Date	leted 2	7. <b>7</b> 0	onth 95year	
Neilcorp	General Contrac			Arthing	say me	RC Eleva	tion BC	Basin Cod	le	ıi .	rii	iv	
21	M : 10	12	<u> </u>	18		i 26	30	31				47	
		LOG OF	OVERBURDEN		ROCK MA	TERIALS					De	pth – feet	
General colour	Most common mater	rial	Othe	er materials		1	Genera	l description	on		From	То	
Brown	Sandy Clay	,					Wet				0_	2	
		· 1					Hard				2	123	
Gray	Limestone	•					nara					120	
												1	
								···	v <del></del>				
												-	
.33													
52	The second secon						4 1 2 2 3						
· WA	TER RECORD	51	CASING & C	OPEN HOL	E RECORI	)	Sizes of	opening	1 4 D	iameter ==	Leng	75 35 th 48	
Water found at - feet	Kind of water	Inside diam	Material	Wall thickness	Depth -	- feet	(Slot No.)	)		inch	es	feet	
	Fresh Sulphur Minerals	inches 6 1/4	Steel 12	inches	From O	To 41	Material	and type		De	epth at top	of screen in	
112 %	Salty Gas	0 1/ 7	☐ Galvanized ☐ Concrete	1200			8					feet	
15 '8  : [	Fresh		☐ Open hole ☐ Plastic				61	PLUGO	ING & S	EALING	RECOR	ID .	
	Fresh Sulphur	17 18	☐ Steel ☐ Galvanized			26-27		Annular sp	ace	☐ Abandonment			
	Salty Gas	6 1/8	: ☐ Concrete : ☑ Open hole		41	123	Depth set at From	To N	Material and	type (Ceme	nt grout, b	entonite, etc.)	
	☐ Fresh ☐ Sulphur ☐ Minerals		, ☐ Plastic			75.5	39'6"		Groute	efd Ce	ment	(5)	
	Gas Sulphur		☐ Galvanized ☐ Concrete				45, (c)	39-39					
	☐ Minerals ☐ Gas		□ Open hole □ Plastic				.9 3	A 3 15					
Pumping test r	method Pumping rate	4.4	Duration of pumpin	g	1 [			0.471011	OF WEL				
Pump	☐ Bailer	12 <sup>GPM</sup>	Hours	Mins	1/1	In diagram	LO below show	CATION			and lot l	ine.	
Static level	Water level Water levels			Recovery	K7V		orth by arrow		0 0, 1,0,, 1				
TEST	15 minutes	30 minutes	45 minutes	30 minutes		PS	nton S	Stat	ion	87		1 1	
5 31 feet	60 120 et	100 <sup>feet</sup>		60 feet	]] '		1101	1	,,,,,		km	1	
If flowing give	rate Pump intake se	et at feet	Water at end of tes	t ☑ Cloudy						•		-1	
Recommended	d pump type Recommended pump setting		Recommended pump rate	1.11								-	
☐ Shallow	Deep X	<b>75</b> feet		<b>5</b> GРМ				E kms				1 1	
FINAL STATU	IS OF WELL				íl	wood		विश्व				1 1	
Water su ☐ Observa	ipply Abandone	d, insufficient s	supply   Unfinish	ed ment well		36"		1/3				14	
☐ Test hole ☐ Recharg	☐ Abandone	d (Other)	_ ,			(5)		73				17	
- Nechary	e weii					1,						1 7	
WATER USE Domesti	ic 🗀 Commercia	al	☐ Not use	d				14				17 J	
☐ Irrigation	n ∐ Public sup	ply	☐ Other			-		How. te				1-1	
☐ Industria		air conditionin	g					11				\	
	CONSTRUCTION		<u> </u>		11							\	
☐ Cable to	conventional) 🗂 Boring	sion	Driving Digging									_ \	
☐ Rotary (☐ Rotary (☐	reverse) 🗌 Diamond		Other							153	319	8	
					J L								
Name of Well Con			Well Contractor	's Licence No	<u>≥</u>		untreceior E	558		ne la seco			
Capital I	Water Supply Ltd	d	1558		ONLY	it malest en	10	nopestor	7	NOV	<del>, 7 1</del> 9	1 <del>95  </del>	
			ario K2S	la6	1176			<u> </u>					
P_O_ Box Name of Well Tech					}≧	rks							
S. Miller Signature of Techn			T0097 Submission da		<u> </u>								
$ n\mathcal{L} $	and -		day 30 mo		j 🗵 📗						S.ES		
2 - MINIST	TRY ON ENVIRO	NMENT								05	06 (07/94)	Front Form 9	
~ !!!!!!!J!	COL CIVERO	A TALLET IN I	~ LINLIN		•								

leasurements re	corded in:	vironment letric Impe	erial	A127986						of
<b>/ell Owner's l</b> rst Name		ast Name / Orga	anization		E-mail Address				T Mall C	onstructed
		McAr	rton Road (	o-Tenancv		15 / 10 )		Felephone	by We	II Owner
The second state of	Street Number/Nan <b>avanagh Ro</b>			Municipality  Ashton	Province ON	Postal Code		elepnone	NO. (INC. I	area code)
ell Location	and the second	Commence (Calculate			7.16					
	ocation (Street Nun			Township Beckwith		Lot		Concessio 12	n	
unty/District/Mu	inicipality	S. 11 Vitabrandary (100 million)		City/Town/Village			Provin	ce	Postal	Code
M Coordinates	Zone Easting	Northin	ng	Ashton Municipal Plan and Subl	ot Number		Other	1110		
NAD   8   3	18 415		004058		1 -1 -5401-5					
erburden and eneral Colour	Most Comm			<b>ord</b> (see instructions on the her Materials		ral Description			Dept From	h ( <i>m(ff</i> ))
		Sand	a-	Boulder	erigina espirare este presidenções es		erion.	When the section of the section of	o ′	6′
Green et	Gou	Limestor	ne .	14 - 4 000 - 11 11 11 11 11 11 11 11 11 11 11 11 1	de Aligaba	Constitution (Carabite Conte	e programming		6′	233
Green 🔫	Grey	Limestor		o e de como e de la	Special Company	Company of the Company	10 (2) (1) (2) (1) (2) (2) (3) (4) (4) (5)	(Cartistan - 144)	233 '	240
		Salatan en Salatan Salatan en					100000000000000000000000000000000000000		*	
	MANUSCOTO -	\$1.444.044.00000000000000000000000000000								,
										:
				,				-		1
		Annular Spa	ace		0002589975001500900000000000000000000000000000	Results of We	Appropriate Contract of the Co	Charles and the second		
Depth Set at ( <i>n</i> <b>©</b> From To		Type of Sealant (Material and Ty		Volume Placed	After test of well yield,  Clear and sand f		Time	aw Down Water Leve	I Time	Water Leve
ъ' о	/ Neat o	ement	25 15 27 17 1	85.5	Other, specify  If pumping discontinue	Not teste	Static	(m/ft) 28.	(min)	(m/ft) 28.6
			SEE and control to control to a server		y puriping discontinue	d, give reason.	Level 1			28.5
					Pump intake set at (r	A	2	28.		28.
					200	690A	3	28.		28.4
	Construction		Well U		Pumping rate (I/min C	GENY TO SEE SEE SEE SEE SEE SEE	4	28.		28.
Cable Tool Rotary (Conventi		Domest	tic 🔲 Munici	pal Dewatering	Duration of pumping	nin	5	28.	-	28.1
Rotary (Reverse) Boring	) Driving Digging	Livestoo	n Coolin	ole Monitoring g & Air Conditioning	Final water level end c	of pumping (m/ft)	10	28.	10	28.4
Air percussion Other, specify		☐ Industria			28.6 // If flowing give rate (l/r	nin / GPM)	15	28.	15	28.4
	Construction Re			Status of Well	×		20	28.1	20	28.4
Diameter (Galva	n Hole OR Material ranized, Fibreglass, rete, Plastic, Steel)	Wall Thickness (cm/in)	Depth ( <i>m/tt)</i> From To	Water Supply Replacement Well	Recommended pump	9 depth ( <i>mtt)</i> 4HP-15-7	~} <sup>5</sup>	28.	26	28.1
11		"	//	Test Hole	Recommended pump	o rate	30	28.0	20	28.
100	Parties Consultable for the	.188	+2 6a 6a 240	Dewatering Well  Observation and/or	20 Well production (I/mir	r VGPMs	40	28.	40	28.
5/8 Op	en Hole		6a' 240	Monitoring Hole ☐ Alteration	20 Disinfected?		50	28.	50	28.1
				(Construction)  Abandoned,	Disinfected?		60	28.	60	28.1
	Construction Re	acord - Screen		Insufficient Supply Abandoned, Poor		Map of W	*****			
Outside Diameter (Plastic	Material c, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	Water Quality  Abandoned, other,	Please provide a map	below following	instruct	ons on the	раск.	
(cm/in)				specify	\	a	٠.	21		
				Other, specify	1 5	9	F 7	S		
	Water Det	ails		Hole Diameter	Shran	a.X.	70	E'		
	epth Kind of Water	V	ntested De From	pth (m/ft) Diameter To (cm/in)	3 \					
233 (m@ : 0 ater found at De		r: Fresh U	ntested	Constant Red Addition to Burn	12		H			
(m/ft) [] ( ater found at De		ecify r:	intested	0 60 6 32 240 578	DJ /	JKW	W			
ater round at be	Gas Other, spe				891		TE	915	3	1
(m/ft) 🔲 (		r and Well Tec	chnician Inform	ation Vell Contractor's Licence No.	1 m3 /		~ · ·	915 NeA	LIDI	$\mathcal{C}_{\mathcal{A}_{\mathbb{C}}}$
, , ,		e de la companya de	en expresse en en en en en en	1119	\			',	, , , , , , , , , , , , , , , , , , ,	•
siness Name of	/Street Number/Na			lunicipality Richmond	Comments:	-£2-	13	3/411	) 15°	Plm /
siness Name of Air Rock D	down Road, R	[497]			L COT WELL		کے	of C	100	++
siness Name of Air Rock D	ctown Road, R	Business E-n		Gigidi∎ excessory	Mall owner's Det-	Packago Doliver-	nd 1	Nation 4	etru He-	Only
siness Name of Air Rock D siness Address 6659 Frank ovince ON	Road, R	Business E-n	air-rock@sym	patico.ca , First Name)	Well owner's Date F information package	Package Delivere	nd n l n	Audit No.	stry Use	
siness Name of Air Rock D Siness Address 6859 Frank ovince ON s.Telephone No.	ctown Road, R	Business E-n	<b>air-rock@sym</b> mician (Last Name	, First Name)	information package	Package Delivere	OLA,	TO CONTRACT OF THE PARTY OF THE		553

V Unita	rio Ministry o the Envir		Wel	A128058	nt Below)	Regulation	1 903 O	ntario Wa		ecor ources A
leasurements re	corded in: Metr	ric   Imperial				]		Page_		of
<b>Vell Owner's</b> I irst Name		Name / Organization	on		E-mail Address			T <sub>F</sub>	1 \A/all (	Constructe
		McArton	Road C	o-Tenancv				The state of the s	by We	ell Owner
	Street Number/Name)			Municipality <b>Ashton</b>	Province ON	Postal Code		elephone N	10. (inc.	area code,
ell Location	ayanaun nua	u	100	ASIIIVII	ON,	NUM	ipu			
Idress of Well Lo	ocation (Street Number	er/Name)		Township		Lot	1	Concession	l	
9153 Mi ounty/District/Mu	cArton Road		10000000	Beckwith City/Town/Village	erre un en	P/L	Province	12	Postal	Code
Lanark	лпсіранц			Ashton			Onta			
M Coordinates	and marking strengths.	Northing		Municipal Plan and Sub	lot Number		Other			
NAD 8 3	18 41528			ord (see instructions on th	e back of this form)					
eneral Colour	Most Common			her Materials		ral Description			Dep From	th ( <i>mft</i> ) To
	1.3	Sand	rrandha.				i di di	340-333-44 <b>8</b> (3-3	04	3′
Grey	and the property of the second second	Limestone	Made plants for the sequence	Marin and Millian State Control	a construction of the state of	nak mengani sakir ti	War and a second	lge grant to be re	3 ′	171
Grey		Limestone		90 PC (1 1985)		on the second			171	181
J3						er Course over the Co				
										1
	***************************************									1
				A CONTRACTOR OF THE CONTRACTOR						
				AAAAA 1871 979 979 979 979 979 979 979 979 979 9						
		Annular Space				Results of W	all Yiel	1 Testina		1
Depth Set at (n	<b>∄)</b> Ty	pe of Sealant Used		Volume Placed	After test of well yield,	water was:	Dra	w Down		ecovery
From To		laterial and Type)		(m³€2) 23.4	Clear and sand f		Time (min)	Water Leve (m/ft)	Time (min)	Water Lev (m/ft)
, U	Mear cen	ien it			If pumping discontinue		Static Level	29.5	4	29.7
					X		1	d 29.6	1.7	29
					Pump intake set at (r	n\$#D	2	29.6	2	29
					160		3	29.6	3	29
Method of	Construction		Well U		Pumping rate (I/min 4		4	29.6		29
Cable Tool Rotary (Convent	☐ Diamond ional) ☐ Jetting	Public Domestic	Comm		Duration of pumping			Elegan Comme	A PORTS	Marie Carlo
Rotary (Reverse	) Driving	Livestock	☐ Test H	ole Monitoring	4 hrs + 0 1		5	29.6		29.
Boring Air percussion	Digging	☐ Irrigation ☐ Industrial	☐ Cooling	& Air Conditioning	Final water level end o	n parriping (ning	10	29.6	10	29
Other, specify		Other, specify	***************************************		If flowing give rate (I/I	nin / GPM)	15	29.7	15	29
Incido Once	Construction Reco	Б.	th ( <i>m/ft</i> )	Status of Well Water Supply	Recommended num	n denth (math)	20	29.7	20	29
Diameter (Galv		Wall Depl hickness (cm/in) From	То	Replacement Well	Recommended pum	14(E)	25	29.7	25	29
		4	60	Test Holey 3	Recommended pumi	o rate	30	29.7	30	29
8 (* Ste	The second state of the second second	.188 +2		Dewatering Well	20*		40	29.7	40	29
57 <b>6 O</b> p	en Hole	60-/	181	Observation and/or Monitoring Hole	Well production (I/mir	and the same of the same of	50	29.7	50	29
				Alteration (Construction)	Disinfected?			,	1	
		ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT		Abandoned, Insufficient Supply	Yes No		60	29.7	60	29'
Outoida	Construction Reco	CONTRACTOR OF THE PROPERTY OF	ulantes 788)	Abandoned, Poor Water Quality	Please provide a map	Map of W		CONTROL OF THE PARTY OF THE PAR	ack.	
Outside Diameter (cm/in) (Plastic	Material c. Galvanized, Steel)	Slot No. From	ttr (m/ft) + 50	Abandoned, other,					1	150
(01.211)			+	specify	カ \				X	
				Other, specify	12/				*	4
					チ			~ :	#	)
ater found at De	Water Details epth Kind of Water:			Hole Diameter oth (m/ft) Diameter	1 3 1		times		-61	M
171 (m <b>©</b> )		X	From	To (cm/in)		χ	$\mathcal{L}$		- 0	•
	epth Kind of Water:		d J	o′ 6Ó 6″	1021	1KM	<b>)</b> (			
	Gas Other, specify opth Kind of Water:		d E	oʻ 181 57 <b>¢</b> "	18810	1	الجز [		2	
	Gas Other, specify			/	1216		- C	715-	_\_	
	Well Contractor a	ınd Well Technici			1 3 1	,/·	nc f	+PTC	تر ا	> :
isiness Name of	and the second second		ļv	/ell Contractor's Licence No.		,	y - 1	K	21	
	rilling Co. Ltd. (Street Number/Name ttown Road, RR≉	),	M	unicipality	Comments:		31	4HP-	150	MAF
				Richmond	TEST WELL	<b>.≇</b> 3 (	0	10	2 12	<u>```</u>
ovince ON	Postal Code   K0A 2Z0	Business E-mail Ad		patico.ca		Package Deliver	ا ا	Minis	try Use	<u>77 ر</u> Only و
us.Telephone No.	of a Property of the Control of the	e of Well Technician		A STATE OF THE STA	information package	2012 6)5	U	Audit No.		
bahahahata	•1	Linnan Jacobs			delivered	Vork Completed		. Z ⊥	28	554
ell Technician's Lic	ence No. Signature of	l echnician and/or C	ontractor D	ate Submitted 5 31	No V	2012 05	ag	JUN   Received	(9)	NIZ.
7 21		V /- /-	1.7	TELEVISION DESCRIPTION DE	11	1 1 1 20 120 120 120	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	PARTICIPATED		

Measurem	ntari	tile El	nvironment	i Imperial	W	Fag#: A12 A128068		3 rint Below)	Regulation	n 903 C			Record sources Act	
Well Ow	10-010-02-02-02-02-02-02-02-02-02-02-02-02-02	formation	ast Name /	Organizatio	n			E-mail Address				1 Mail	Constructed	
			M			Co-Tenancy	1		15			by W	ell Owner	
	and the second	eet Number/Na <b>/anadh R</b> (				Municipality Ashton		Province ON	Postal Code		Telephone I	No. (inc.	area code)	
Well Loca	ation	1000	777				about Malley		11-1		0			
		ation (Street Nu <b>Arton Roa</b> (		)		Township  Beckwit	h		Lot P/L	- 1	Concession 12	<b>)</b>		
County/District/Municipality						City/Town/Village	7 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		I.	Provin		Postal Code		
Lanark UTM Coordinates   Zone , Easting , Northing					Control (St. 9E. Ja	Ashton Municipal Plan ar	nd Sublot	: Number		Ont	ar10			
NAD	200	18 415		50038		Alexandra en								
Overburden and Bedrock Materials/Abandonment Se General Colour Most Common Material						ther Materials	ns on the L		eral Description			Dep From	oth (m@)	
***************************************			Clav	eri e dese	CARLO ST.	(Blacoston comment	yeu cellingeling en	o compression of the control of the	tograpisko <b>li</b> kiskoro	MANY STORE	no chrostown the	0 ′	3′	
Grey				stone		Sept. Sept.			34. 35. W. S.			3 ′	170	
Grey		CONTRACTOR CONTRACTOR	Lime	stone	eren.	79.00					ACOME COME.	170	216	
Grey	felgifi	and the sile of	Lime	stone	MT F Y		and 斜		Transference .		1,830,000	216	240	
Grey			Lime	stone	of Sand Stare			are -			19-11-11	240	247	
							OF THE PARTY OF TH							
Depth Se	etat(m/t)	<b>,</b>	Annular Type of Se	Location and the control of the cont		Volume Pla	ced	After test of well yield, v	esults of We vater was:		d Testing aw Down	R	lecovery	
From	To To		(Material ar		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(m³Æ)		☐ Clear and sand fre ☐ Other, <i>specify</i>	ee	Time (min)	Water Leve (m/ft)	Time	Water Level (m/ft)	
60′	U	iveatio	æment			20		If pumping discontinued		Static Level	34.6	1	35.1	
								$\sim$		1	35	1	34.6	
					~			Pump intake set at (m	<b>(4)</b>	2	36	2	34.6	
Time	000000000000000000000000000000000000000					•		230 Pumping rate (I/min / G	(EM)	3	35	3	34.6	
Meth		onstruction  Diamono	j Du	ıblic	Well t		used	20	To a second seco	4	35	4	34.6	
Rotary (C			'DAD	omestic vestock	☐ Munic		911	Duration of pumping	in	5	35	5	34.6	
Boring		Digging	☐ Irri	igation		g & Air Conditioning	- 11	Final water level end of	pumping (m/ft)	10	35	,10	34.6	
Other, sp			1	dustrial her, <i>specify</i> _				35.1 If flowing give rate (I/m	in / GPM)	15	35	15	34.6	
		onstruction R			(ma/61)	Status of V		$\sim$	-1	20	35	20	34.6	
Inside Diameter (cm/in)	(Galvani	ole OR Material zed, Fibreglass, e, Plastic, Steel)	Wall Thickness (cm/in)	From	n ( <i>m/ft</i> )   To	Water Suppl	nt Well	Recommended pump	4HP-	25	35,1	25	35.6	
811			.188	+2	60 /	Test Hole Recharge W		Recommended pump.	rate	30	35.1	30	34.6	
6"	Stee		.100	60 /	247	Dewatering '		Well production (I/min.	/ <del></del>	40	35.1	40	34.6	
0	Opei	n Hole	Carrier Springer		247	Monitoring H		20 20	GENT TO THE STATE OF THE STATE	50	35.1	50	34.6	
						(Constructio		Disinfected?  No		60	35.1	60	34/6	
	(	Construction R	ecord - Scr	een		Insufficient S	Supply	75	Map of W	ell Loc	ation			
Outside Diameter		Material Salvanized, Steel)	Slot No.		n ( <i>m/ft</i> )	Water Qualit	ty	Please provide a map t	elow following	instruct	ions on the b	ack.		
(cm/in)	(Flastic, C	Salvanized, Oteel)		From	То	specify		~\			160	, L	· -	
				$\geq$		Other, speci	fy	3	. (	4	不	` J.	:	
50000000000000000000000000000000000000	es e							15 No. 10	6	TKM		L		
Water foun	d at Dept	Water De h Kind of Wate		untested			ameter	3 \	in group makey	/	X	<b>.</b> 		
	<b>1∕@</b>			STATE OF THE STATE	From	To (	em/in)	\$ 1	. ((	7(-1				
		h Kind of Wate s Other, <i>spe</i>		Dintested		0 247	6		IKW (	T				
Water foun	d at Dept	h Kind of Wate	r: Fresh	Untested				0 1	_ <del>_</del>	19	153	. (		
(m	n/ft)∐Ga V	s Other, spe Vell Contracto		Technicia	n Inform	ation		83 /-		£ ,	153 ART	212	GA	
	ame of W	ell Contractor				Vell Contractor's Lice	nce No.	- \		INC	٧,	Ko	1	
Business A	ddress (St	li <b>ng Co. Ltd.</b> treet Number/ <u>N</u> a		odispringensor or	Ī	1119 Unicipality	income and	Comments:	general War.	12	1/4 HP	15.	apml	
6659	Frankto	wn Road, R	R#1			Richmond		TEST WELL	#4		et C			
Province ON	1	Postal Code   K0A 2Z0	Busines	s E-mail Add <b>air-roc</b>		patico.ca			ckage Delivere		Minis		e Only	
The second by	and the second	c, area code) No				e, First Name)			012 6 5	14	Audit No.	28	555	
61388 Well Technic	82170 ian's Licend	ce No. Signature	Purce of Technicia	ell, Shann an and/or Co	i <b>on</b> ontractor [	ate Submitted		Yes Date W	ork Completed		· · · · · · · · · · · · · · · · · · ·			
1212	22	KON	unio,	$\supset$		Y Y Y M M		No YY	012 05		Received	121	3 2012	
0506E (2007)	12) © Qu	een's Printer for On	tario, 2007 *			Ministry's	Сору							

Tag#: A128066 nt Below) We Well Record Ministry of the Environment Regulation 903 Ontario Water Resources Act A128066 ☐ Metric Measurements recorded in: Well Owner's Information ☐ Well Constructed E-mail Address First Name Last Name / Organization by Well Owner McArton Road Co-Tenancy Telephone No. (inc. area code) Municipality Province Postal Code Mailing Address (Street Number/Name) KOA 1BO **Ashton** ON 9094 Cavanagh Road Well Location Address of Well Location (Street Number/Name) Lot Concession 9153 McArton Road PIL 6 Beckwith Postal Code County/District/Municipality City/Town/Village Province Ontario Lanark
UTM Coordinates Zone Easting Municipal Plan and Sublot Number Other NAD 8 3 1 84 15 465 500 36 48 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (n General Description Most Common Material 0 ' 4 Sand y Clay 4 165 1 Limestone Grey a Green 172 Grey of Green Limestone 181 Grey a Green Limestone Results of Well Yield Testing Annular Space Depth Set at (n 44) After test of well vield, water was: Draw Down Recovery Volume Placed Type of Sealant Used Time Water Level Time Water Level (Material and Type) Clear and sand free Other, specify Not tester (min) (m/ft) (m/ft) 01 18.7 60 Neat cement 35.2 7 Static If pumping discontinued, give reason: 34.8 Level 34.8 1 35.1 Pump intake set at (m🏚 2 35.1 34.8 160 3 35.1 34.8 Pumping rate (I/min / GPMD) Well Use Method of Construction 20 4 35 1 4 34 R Cable Tool Public Commercial ☐ Not used Duration of pumping Domestic Livestock Rotary (Conventional) Jettina Municipal Dewatering 35.1 34.8 1 hrs + 0 min Test Hole ☐ Monitoring Driving Rotary (Reverse) ☐ Irrigation Cooling & Air Conditioning Final water level end of pumping (m/ft) Boring ☐ Digging 10 10 25.1 34 8 35.2 ~ Air percussion Other, specify Industrial 15 15 Other, specific If flowing give rate (I/min / GPM) 35.1 34.8 Recommended pump depth (min)
Recommended pump rate
Recommended pump rate
(l/min (G-M))
20 Construction Record - Casing Status of Well 20 35.1 20 34.8 Depth (m/ft) Water Supply Inside Open Hole OR Material Wall Diamete (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Replacement Well 25 35.1 34.8 То From (cm/in) Test Hole 45 30 30 35.2 34.8 6" Recharge Well +2 ' 60 188 Steel Dewatering Well 40 35.2 40 348 181 / 57/8" 60 ' Observation and/or Well production (I/min / CRM) Open Hole Monitoring Hole 50 50 34.8 20 35.2 Alteration Disinfected? (Construction) 34.8 " Yes No 60 35.2 Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Depth (m/ft) Water Quality Outside Material Abandoned, other, Diamete From (cm/in) specify Other, specify Water Details Hole Diameter Diamete (cm/in) Water found at Depth Kind of Water: Fresh Intested Depth (m/ft) Stati From 165 (mft) Gas Other, specify Water found at Depth Kind of Water: Fresh Wintested 0 60 A 172 (m(ft) Gas Other, specify 60 181 57B Water found at Depth Kind of Water: Fresh Untested 3 (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No 1119 Air Rock Drilling Co. Ltd. Business Address (Street Number/Name) 6659 Franktown Road, RR#1 Municipality Richmond TEST WELL #5 Postal Code Business E-mail Address Date Package Delivered air-rock@sympatico.ca Ministry Use Only K0A 2Z0 ON Well owner's information Audit No Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 28556 JUN 2 9 2012 2012 65 Hanna, Jeremy Date Work Completed Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 5 31 Yes Yes 2012 0 509 □ No

#### Tag#: A128062 Print Below) Well Record Ministry of Regulation 903 Ontario Water Resources Act the Environment A128062 Page Measurements recorded in: Well Owner's Information E-mail Address Last Name / Organization First Name by Well Owner McArton Road Co-Tenancy Postal Code Telephone No. (inc. area code) Province Municipality Mailing Address (Street Number/Name) ON KOA 180 Ashton 9094 Cavanadh Road Well Location Address of Well Location (Street Number/Name) P/L 6 Beckwith 9153 McArton Road Postal Code City/Town/Village Province County/District/Municipality Ontario Ashton Lanark UTM Coordinates Zone Easting Municipal Plan and Sublot Number NAD 8 3 18 415610 5003588 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/tt) General Description From Most Common Material 01 4 Clay 77 ( 4 Limestone Grey + Green 1211 Limestone Grey a Green 1211 132 Limestone Grey a Graen 1324 142 Limestone Grey of Green Results of Well Yield Testing Annular Space Volume Placed (m³∰) Draw Down After test of well vield, water was: Depth Set at (n Type of Sealant Used Time | Water Level Clear and sand free (Material and Type) (m/ft) Other, specify Not tester (min) (m/ft) (min) 21.8 0 60 Neat cement 36.2 If pumping discontinued, give reason: 35 Level 35 1 26 Pump intake set at (1644) 35 2 2 36 120 3 36.1 3 35 Pumping rate (I/min /GPM) Well Use Method of Construction 20 4 35 4 36.1 Not used Public Commercial Diamond Cable Tool Duration of pumping Domestic Municipal Dewatering Jettina Rotary (Conventional) 5 5 35 36.1 4 hrs + 0 min Test Hole Monitoring Livestock ☐ Driving Rotary (Reverse) Final water level end of pumping (m/ft) Cooling & Air Conditioning Irrigation 10 10 35 Digging 36.1 Boring Industrial 36.2 Air percussion 15 15 35 Other, specify Other, specify flowing give rate (I/min / GPM) 36.1 Construction Record - Casing Status of Well 20 20 36.1 35 Recommended pump depth (m/ft) Water Supply Open Hole OR Material Wall Depth (m/ft) 25 25 35 Diamete (Galvanized, Fibreglass Replacement Well 36 1 From Test Hole # 6 (cm/(0)) Concrete, Plastic, Steel (cm/in) 30 30 35 36.2 6 4 (I/min / **GPM**) 60 188 +2 Steel Dewatering Well 20 40 40 36.2 35 Well production (I/min / PM) 811 Observation and/or 142 60 Open Hole Monitoring Hole 50 50 35 36.2 20 Disinfected? Alteration (Construction) 35 1 60 36.21 Xes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Water Quality Depth (m/ft) Outside Material Abandoned, other, Diameter (Plastic, Galvanized, Steel) (cm/in) specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) (cm/in) 77 (mst) Gas Other, specify Water found at Depth Kind of Water: Fresh Tuntested 142 121 (mft) Gas Other, specify Water found at Depth Kind of Water. Fresh Wintested H9153 POAL (m/ft) Gas Other, specify 3 Well Contractor and Well Technician Information Business Name of Well Contracto Well Contractor's Licence No 1119 Air Rock Drilling Co. Ltd. 3/4HP-159Am Business Address (Street Number/Name) 6659 Franktown Road, RR#1 Municipality Richmond TEST WELL #6 of @ looft Postal Code Business E-mail Address

B138382170

ON K0A 2Z0 air-rock@sympatico.ca

Purcell, Shannon

Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 5 31

Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

information package delivered

YYYes

Y2012 M M5 14

2012 0509

Date Work Completed

Ministry Use Only

28557 N 2 9 20

Well Record Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) and Climate Change Regulation 903 Ontario Water Resources Act A-1 95938 Page Measurements recorded in: 🗌 Metric 🔼 Imperial Well Owner's Information Last Name / Organization ☐ Well Constructed First Name HOMES TOMAR CUSTOM by Well Owner Telephone No. (inc. area code) Municipality Mailing Address (Street Number/Na K752H26132235184 54 BERT G ARGUE DNT. STITTSVILLE Well Location Address of Well Location (Street Number/Name)

154

RIDGEMONT

County/District/Municipality BECKWITH Postal Code Province SHTON Ontario Municipal Plar Northing, **UTM** Coordinates 18415125-5004073 Record (see instructions on the back of this form) Depth (m/ft) General Description Most Common Material 35 BROKEN ROCK F14 SAND BROWN LIMESTONE GREY LAYERS OF GREY SANDSTONE LIMESTONE GREY Annular Space Results of Well Yield Testing خ الإرانية (سلمان) After test of well yield, water was: Depth Set at (m/ft) Draw Down Type of Sealant Used (Material and Type) Clear and sand free Water Level Time Water Level Other, specify CLERRING (min) (m/ft) .576 -50 RENTONITE GROUT 16.42 If pumping discontinued, give reason 60 CEMENT GROUT . 110 19.80 1 19.85 Pump intake set at (p)/fl) 2 19.83 2 19.853 Method of Construction Well Use 4 13 20.0 4 Cable Tool ☐ Diamond Public Commercial ☐ Not used Duration of pumping

Language hrs + D min Domestic ☐ Municipal Rotary (Conventional) Jetting Dewatering 5 80,2 5 Test Hole Rotary (Reverse) ☐ Monitoring ☐ Driving Livestock Boring Final water level end of pymping (m/ll) Digging ☐ Irrigation Cooling & Air Conditioning 10 420.05 10 Air percussion Other, specify Industrial Ti Other: specifi 15 BO,07 15 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20.13 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Wall Water Supply Recommended pump depth (m/ll) Diamets (cm/in) Thickness (cm/in) 25 20.4 Replacement Well To \_\_\_ Test Hole Recommended pump rate . 188 30 QO, 14 30 Recharge Well STEEL (l/min / GPM) 10 Dewatering Well 40 20.15 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 10 50 **20.16** 50 Alteration (Construction) 60 Q O . 16 60 XYes No Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Outside Please provide a map below following instructions on the back. Depth (m/ft) Material (Plastic, Galvanized, Steel Abandoned, other (cm/in) From specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Diameter (cnvin) Depth (m/ft) 9/ (m/ft) Gas Other, specify
Water found at Depth Kind of Water: Fresh X Unitested 60 6 12.5 (m/ft) Gas Other, specify HYDRO FRAC found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information SAUNDERS WELL DRILLING 40
Business Address (Street New 40) 4879 Business Address (Street Number/Name)

680 SCHEEL OR Comments BRAESIDE Business E-mail Address KOAIGO Well owner's Ministry Use Only information package delivered finc. area code) Name of Well Technician (Last Name, First Name)

SAWDERS TROP <sup>Audit No</sup>**z** 223093 of Technique and/or Contractor Date Submitted

April 20/60726 X Yes

□ No

Ministry's Copy

AUG 1/2 2016

@ Queen's Printer for Ontario, 2014

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record Regulation 903 Ontario Water Resources Act A195941 Measurements recorded in: Metric Imperial Page Well Owner's Information Last Name / Organization E-mail Address First Name ☐ Well Constructed TOMAR CUSTOM HOME by Well Owner Telephone No. (inc. area code) Mailing Address (Street Number/Name) Municipality 54 BERT ARGUE K752H26132235184 ONT. Address of Well Location (Street Number/Name)

/62 RIDGEMONT

County/District/Municipality Province Postal Code LANARK ASHTON Ontario Other Northing NAD | 8 | 3 | 78 | 4 | 75 | 7 | 4 | 500 | 4 0 20 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Other Materials General Description Most Common Material From FILL BROWN CLAY BROWN SHALE GREY SANDSTONE LIMESTONE GREY Results of Well Yield Testing Annular Space Volume Placed,≩ After test of well yield, water was: Draw Down Depth Set at (m/ft) Type of Sealant Used Recovery (Material and Type) Clear and sand free Time Water Level Time Water Level Other, specify CUEARING (min) (m/it) BENTONITE GROUT o 960 If pumping discontinued, give reason: Level 223 127,021 23016 Pump intake set at (m/fit) 95 2 27,23 2 22,35 3 28,04 3 22,31 Pumping rate (I/min / GPM) Method of Construction Well Use 10 4 28.56 Public Cable Tool Diamond ☐ Commercial Not used Duration of pumping

I hrs + O min Rotary (Conventional) ☐ Dewatering ☐ Jetting Municipal 5 28,87 5 □ Driving Livestock Rotary (Reverse) ☐ Test Hole Monitoring Final water level and of pumping (m/ll) Boring

XAir percussion ☐ Irrigation Digging Cooling & Air Conditioning 10 2 9, 45 10 [ Industrial Other, specify Other, specify 15 Q 9.60 15 f flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 29.60 20 Inside Diamete (cm/in) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Water Supply
Replacement Well Depth (m/ft) Wall Recommended pump depth (m/ft) Thickness 90 25 Q9.76 (cm/in) Test Hole Recommended pump rate (I/min / GPM) / ) 64 .188 29.80 Recharge Well STEEL Dewatering Well 40 29.95 40 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 30,0 50 Alteration Disinfected? (Construction) 80,05 XYes 🗌 No Abandoned. Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Outside Please provide a map below following instructions on the back Depth (m/ft) Material (Plastic, Galvanized, Steel Abandoned, other From specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Xuntested Depth (m/ft) Diameter 89 (m/ft) Gas Other, specify (cm/in) From /00 Water found at Depth Kind of Water: Fresh Untested 99 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor 4879 SAUNDERS WELL DRILLING-LITO Business Address (Street Number/Name)
1080 SCHEEL OR BRAESIDE

Ministry's Copy

Bus. Telephone No. (inc. ana code)

Bus. Telephone No. (inc. ana code)

Bus. Telephone No. (inc. ana code)

Name of Well Technician (Last Name, First Name)

SAUVERS ROY

Well Technician's Licence No.

Signature of Technician and/or Contractor Date Submitted

T 5 7 1997 August 2007 6

Business E-mail Address

Postal Code

Well owner's information package delivered 2016 062/ Date Work Completed 2016 062/

Ministry Use Only
Audit No Z 2 2 3 0 9 4

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record and Climate Change Regulation 903 Ontario Water Resources Act 4195942 Measurements recorded in: Metric Kimperial Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed by Well Owner TOMAR CUSTOM Mailing Address (Street Number/Name) Postal Code | Telephone No. (inc. area code) | K752H2 6/3235/34 Municipality 54 BERT G. ARGUE DR. ONT Well Location Address of Well Location (Street Number/Name)

RIDSEMONT

County/District/Municipality BECKWITH City/Town/Village Province Postal Code LANARK HSHTON) Ontario Northing Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Other Materials General Description From LIMESTONE BLACK LIMESTONE REDYGREEN SHAUE BROWN 83 0 REDSANDSTONE 83 GREY LIMESTONE GREY SANDSTONE Annular Space Results of Well Yield Testing Volume Placed على المستحدد المستحدد المستحدد المستحدد المستحد المستحدد المستحدد المستحدد المستحدد المستحدد الم Type of Sealant Used After test of well yield, water was: Draw Down Recovery (Material and Type) Clear and sand free Water Level Time Water Level Other, specify CLEGRIAL o 480 (min) (m/ft) 50 RENTONITE GROUT If pumping discontinued, give reason. Static 26.0 CEMENT GROUT 50 60 o 130 32.98 38,40 Pump intake set at (m/ft) 36.30 2 34.12 38.01 3 31.55 umping rate (I/min / GPM) Method of Construction Well Use 39.02 4 29.43 Cable Tool Diamond Public Commercial Not used Duration of pumping
\_\_\_\_\_ hrs + \_\_\_\_ min Rotary (Conventional) ☐ Jetting ☐ Municipal ☐ Dewatering 39,76 5 28.10 Rotary (Reverse) Driving Livestock Test Hole Monitoring Boring

Air percussion Final water level end of pumping (m/li) Digging ☐ Imigation Cooling & Air Conditioning 42,42 10 26.0 10 Industrial Other, specify Other, specify 44,0 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20415,15 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Water Supply Recommended pump depth (m/it) Diamete (cm/in) 130 Thicknes Replacement Well 25 45.60 25 From 2 (cm/in) Test Hale Recommended pump rate (Vmin / GPM) 465,95 30 188 Recharge Well STEEL Dewatering Well 46,34 40 Observation and/or Well production (@min / GPM) Monitoring Hole 46.64 50 Alteration Disinfected? (Construction) 4/6,98 60 60 XYes 🗌 No Abandoned. Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Outside Diameter (cm/in) Please provide a map below following instructions on the back Material Galvanized, Steel) Depth (m/ft) Abandoned, other From specify Other, specify CHOREMONT. Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Wuntested Depth (m/ft) Diamete (cm/in) Water found at Depth Kind of Water: Fresh K Untested 60 83 1570 Gas Other, specify HYDROFRAC /ater found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor SAUNDERS TROY 487

usiness Address (Street Number/Nar BRAESIDE Business E-mail Address KO A160

Name of Well Technician (Last Name, First Name)
SAUNOERS TROS

of Technician and or Contractor Da

Well owner information package delivered

Ministry Use Only Audit No. **z** 223095 AUG 1 2 2016

0100723 Ministry's Copy

Xyes

No

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record and Climate Change Regulation 903 Ontario Water Resources Act Tag#: A195956 ements recorded in: 🔲 Metric 💆 Imperial Page Well Owner's Information Last Name / Organization First Name F-mail Address ☐ Well Constructed TOMAR by Well Owner CUSTOM Mailing Address (Street Number/Name) Telephone No. (inc. area code) Municipality 752/12/61/3/2235/8 54 BERT GLARGUE Well Location Address of Well Location (Street Number/Name) Concession Lot Township BECKWITH City/Town/Village Postal Code Province ASHTON
Municipal Plan and Sublot Number LANARK Ontario Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material Other Materials General Description From GREY LIMESTONE GREY SANDSTONE 139 Results of Well Yield Testing Annular Space Depth Set at (m/ft) After test of well yield, water was: Volume Placed 3 Recovery Type of Sealant Used Draw Down (Material and Type) Clear and sand free Time Water Level Time Water Level Other, specify LETH (m/ft) (min) (m/ft) <u>5</u>0 RENTONITE GROUT .576 Statio If pumping discontinued, give reason: 39.75 60 0/30 CEMENT GROUT Pump intake set at (m/ft) 2 129 Pumping rate (I/min / GPM) Method of Construction Well Use Duration of pumping Cable Tool
Rotary (Conventional) ☐ Diamond Public ☐ Commercial ☐ Not used Jetting Domestic ☐ Municipal Dewatering 5 \_\_\_\_\_hrs\_+\_\_\_\_\_\_ min\_ Rotary (Reverse) Driving Test Hole ☐ Monitoring Livestock Boring Final water level end of pumping (m/ft) ☐ Digging Irrigation Cooling & Air Conditioning Air percussion
Other, specify 10 Industrial Other, specify If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steet) Inside Depth (m/ft) Water Supply Recommended pump depth (m/ft) Diameter (cm/in) Thickness (cm/ln) Replacement Well 25 Test Hole 64 Recommended pump rate a 188 STEEL Recharge Well 40.61 (I/min / GPM) 6 Dewatering Well 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 40,59 50 50 Alteration Disinfected? (Construction) 0.59 Abandoned, Insufficient Supply Ø Yes □ No Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Depth (m/ft) Diameter (cm/in) Slot No. (Plastic, Galvanized, Steel) Abandoned, other, From specify Other, specify BRADAT Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Suntested Depth (m/ft) Diameter 6" E 60 139 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other specify Bus



Well owner's

☐ No

1111111	Ods   Calci, i	pcony					
	Well Contra	ctor and Well Te	echnician I	nformatio	าก		800000
Business Name of	Well Contractor			Well	Contracto	or's Lio	ence N
SAUNDE	is we	IL DRILL	NG- 17		P	7	9
Business Address	(Street Number/	Name)		Muni	cipality		
1680 S	CHEEL	OR.		B	XX	YD	E
Province	Postal Code	Business E	-mail Addres	SS			
ONT	KOAI	<b>5</b> 0					

Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

information X Yes

Date Package Delivered 20160906 Date Work Completed 2016 09

Ministry Use Only Audit No Z 223096 SEP 2 0 2016

20161

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below)

	I <mark>rIO</mark> ar	d Climate (	Change	1 /	7195975		Regulation	903 Ontario Wa	ater Reso	ources Act
easurements re	ecorded in:	☐ Metric		ial	177713			Page		of
Vell Owner's	Informatio								_	
irst Name		Converse of the	ame / Organ	The state of the s	M HONE	E-mail Address				onstructed
lailing Address (		er/Name)	210111	N	lunicipality	Province	Postal Code	Telephone		area code)
<u> 54 6</u>	3ERT	G AR	<b>SOVE</b>	DR. S	STITISVILLE	E ONI.		14401.154	212IS.T	)/& <u>7</u>
Vell Location ddress of Well L	ocation (Stre	at Number/l	Name)	Т	ownship		Lot	Concession	on	
143		EMOIN		2.	BECKW				,	
ounty/District/M				C	ity/Town/Village ASH T0/	1 /		Province Ontario	Postal	Code
JTM Coordinates	Zone Easti	na	, Northing		Aunicipal Plan and Subic	t Number		Other		
NAD   8   3	1/8/4/	5221	6 500	090						
					rd (see instructions on the			1	Dep	th ( <i>m/ft</i> )
General Colour		Common M		Oth	er Materials		eral Description		From	1 70
GREY	LIM	ESTOI	ve	LAYER	es of whi	IE SANE	STOVE		<u> </u>	270
								<u> </u>		
		Δ	nnular Spa	ice			Results of We	II Yield Testin		
Depth Set at (n		Туре	e of Sealant	Used	Volume Placed 3	After test of well yield		Draw Down Time Water Le		ecovery Water Level
From 1	To		terial and Ty		20 A	Other, specify	1166	(min) (m/ft)	(min)	(m/ft)
$O \circ O$	/_\S	NOTON	112 (	NOUN	8010	If pumping discontinu	ued, give reason:	Static Level 28	Z8	<u> </u>
								1 29.9	76 1	28,90
						Pump intake set at	(m/ft)	2 29.9	7 2	28.90
						230		3 200	5 3	18.89
Method (	of Construc	tion		Well Us	se	Pumping rate (I/min	/ GPIN)	1000	$i \mid 4$	70 0 F
Cable Tool	=	lamond etting	☐ Public ☐Domest	Comme		Duration of pumpin		7 27.7		20 · 0 · C
Rotary (Conve. Rotary (Revers		Driving	Livestoo	ck Test Ho	ole		min	5 29.4	0 5	28.57
☐ Boring ÀAir percussion		Digging	☐ Irrigation		& Air Conditioning	Final water level end	i orpumping ( <i>min)</i> . 23	10 22.90	<u>(</u> ) 10	28.80
Other, specify						11 6-4 7 6	٠ الدر ع	1		
			Other, s			If flowing give rate		15 29,9		28.82
	Construc		rd - Casing	specify	Status of Well	If flowing give rate	(l/min / GPM)	15 29.9. 20 29.9		28.79
Diameter (Ga	Construction Hole OR Malvanized, Fibre	aterial \	rd - Casing Wall ickness ,	Depth (m/fi)	Status of Well  A Water Supply  Replacement Well	If flowing give rate	(l/min / GPM) mp depth (m/ft)	20 29.9	O 15 O 20	28.79 28.79 28.79
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre oncrete, Plastic,	aterial \	rd - Casing Wall	specify	Water Supply Replacement Well Test Hole	Recommended pur	(Vmin / GPM) mp depth (m/ft)	20 29.9 25 29.9	0 15 0 20 0 25	28.79 28.79 28.79 28.79
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre	aterial \	rd - Casing Wall ickness ,	Depth (m/fi)		If flowing give rate Recommended pur	(Vmin / GPM) mp depth (m/ft)	20 29.9 25 29.9 30 29.9	0 15 0 20 0 25 0 30	18.23 28.79 28.79 28.78
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre oncrete, Plastic,	aterial \	rd - Casing Wall ickness ,	Depth (m/fi)	Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or	Recommended pur	(l/min / GPM) mp depth (m/ft)  mp rate	20 29.9 25 29.9 30 29.9 40 29.9	73 40	18.23 28.79 28.79 28.78 28.78
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre oncrete, Plastic,	aterial \	rd - Casing Wall ickness ,	Depth (m/fi)	Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration	Recommended pur (Vmin / GPM)	(l/min / GPM) mp depth (m/ft)  mp rate	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9	70 15 70 20 70 25 70 30 73 40 73 50	28.79 28.79 28.79 28.78 28.78
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre oncrete, Plastic,	aterial \	rd - Casing Wall ickness ,	Depth (m/fi)	Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration Construction) Abandoned,	Recommended pu  Recommended pu  Recommended pu  (I/min / GPM)  Well production (I/r	(l/min / GPM) mp depth (m/ft)  mp rate	20 29.9 25 29.9 30 29.9 40 29.9	73 40	28.79 28.79 28.79 28.78 28.78 28.78
Diameter (Ga (cm/in) Con	Construction Hole OR Malvanized, Fibre Increte, Plastic,	aterial \	rd - Casing Wall ickness cm/in)	Depth (m/fi)	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor	Recommended pure second pure s	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	18.23 28.79 28.79 28.78 28.78 28.78
Diameter (Ge (cm/in) Cor	Construction Hole OR Malvanized, Fibre oncrete, Plastic, TEEL  Construction Material	aterial glass, Thi (c	rd - Casing Wall ckness cm/in)  188	Depth (m/ft) From To F#Z 6	Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality	Recommended pur Recommended pur 2 S Recommended pur (Virnin / GPM)  Well production (Vir. Disinfected?	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	18.23 28.79 28.79 28.78 28.78 28.78
Diameter (Ge (cru/in) Coi	Construction Hole OR Malvanized, Fibre Increte, Plastic, TEEL	aterial glass, Thi (c	rd - Casing Wall ckness cm/in)  188	Depth (m/ft) From To	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor	Recommended pure second pure s	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.79 28.78 28.78 28.78 28.78
Diameter (Ge (con/in) Columbia	Construction Hole OR Malvanized, Fibre oncrete, Plastic, TEEL  Construction Material	aterial glass, Thi (c	rd - Casing Wall ckness cm/in)  188	Depth (m/ft) From To F#Z 6	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify	Recommended pure service (limin / GPM)  Well production (l/r  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78
Diameter (Ge (con/in) Columbia	Construction Hole OR Malvanized, Fibre oncrete, Plastic, TEEL  Construction Material	aterial glass, Thi (c	rd - Casing Wall ckness cm/in)  188	Depth (m/ft) From To F#Z 6	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,	Recommended pure service (limin / GPM)  Well production (l/r  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Ga (crufin) CO (crufin) CO (crufin) CO (crufin) Coutside Diameter (crufin) (Plai	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Construction Material astic, Galvanized Wa	ction Records, Steel) S	rd - Casing Wall ickness crwin)  rd - Screen	Depth (m/ft) From To F#Z 6   Depth (m/ft) From To T	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Other, Specify Other, Specify	Recommended pur (Vimin / GPM)  Well production (Vinin / GPM)  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Ca (crufin) Co Col Col Col Col Col Col Col Col Col	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Construction Material astic, Galvanized Wa	ction Records, Steel) S	rd - Casing Wall ickness crwin)  rd - Screen Slot No.	Depth (m/ft) From To F#Z 6   Depth (m/ft) From To T	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify	Recommended pur (Vimin / GPM)  Well production (Vinin / GPM)  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Ca (contin) Co Coutside Diameter (contin) (Planeter (contin) Continue (Planeter (continue (Continu	Construction Hole OR Malvanized, Fibre Increte, Plastic, Construction Material astic, Galvanized Was Depth Kind Gas Other Increte Incr	ction Records, Steel) S  sterious Steel S  ction Records, Steel S  sterious S	rd - Casing Wall ickness smin)  Rd - Casing Wall ickness smin)  Rd - Screen Slot No.	Depth (m/ft) From To  Depth (m/ft) From To  Depth (m/ft) From To  Depth (m/ft) From To	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  Hole Diameter pth (m/ft) Diameter	Recommended pur (Vimin / GPM)  Well production (Vinin / GPM)  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Caronin)  Outside Diameter (cm/in)  Water found at (Mn/it)  Water found at (Mn/it)  Water found at (Mn/it)	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Construction Material astic, Galvanized Material Astic, Galv	ction Records, Steel)  ction Records, Steel)  ster Details  f Water:  her, specify  f Water, specify  her, specify	rd - Casing Wall ickness gravin)  rd - Screen Slot No.	Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth To	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  Hole Diameter pth (m/ft) Diameter	Recommended pur (Vimin / GPM)  Well production (Vinin / GPM)  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78
Outside Carlin (Place (Carlin)	Construction Hole OR Malvanized, Fibre oncrete, Piastic, Piastic, Construction Material astic, Galvanized Was Depth Kind Gas Other Kind Gas Other Kind Gas Other Kind Gas Other Kind Cast Construction Material astic, Galvanized Construction Material Assistance Construction Material Material Assistance Construction Material Assistance Constr	ction Records, Steel)  ction Records, Steel)  ster Details of Water: her, specify of Water: her, specify of Water:	rd - Casing Wall ickness smin)  rd - Screen Slot No.	Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth To	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  Hole Diameter pth (m/ft) Diameter	Recommended pur (Vimin / GPM)  Well production (Vinin / GPM)  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Outside Diameter (Crevin)  Outside Diameter (Crevin)  Water found at (Min)  Water found at (Min)  Water found at (Min)  Water found at (Min)	Construction of the constr	ction Records, Steel)  ction Records, Steel)  ster Details  of Water:  her, specify  of Water:  her, specify  her, specify  her, specify	rd - Casing Wall ickness   r  Sorvin   r  Fresh   QU  Fresh   QU	Depth (m/ft) From To	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Hole Diameter pth (m/ft)   Diameter (cnvin)   240   6	Recommended pure service (limin / GPM)  Well production (l/r  Disinfected?  Yes No  Please provide a m	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Car (cm/in) (Co Co)  Coutside Diameter (cm/in) (Plan (cm/in))  Water found at (m/it) [  Water found at (m/it) [	Construction of the constr	ction Records, Steel)  ction Records, Steel)  ction Records, Steel)  ster. Details of Water:  her, specify of Water:  her, specify of Water:  her, specify of Water actor are actor	rd - Casing Wall Ickness   Formula   Fresh   Quality   Fresh   Qua	Depth (m/ft) From To FEZ 6   Depth (m/ft) From To Depth (m/ft) From To  Untested De From Untested 6   Untested 7   Untested 7   University 1   University 2   University 2   University 2   University 3   University 4   University	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Hole Diameter pth (m/ft)   Diameter (cnvin)   240   6	Recommended pure 13 Recommended pure 13 Recommended pure 14 Recommended pure 15 Recomm	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78
Diameter (confin)  Coutside Diameter (confin)  Water found at  Coutside Diameter (confin)  Water found at  (m/fi)  Business Name	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Plastic, Construction Material astic, Galvanized Salvanized Salv	ction Records, Steel)  ction Records, Steel)  ster Details  of Water:  her, specify of Water: her, specify of Water: her, specify of Water:  her, specify of Water:  wher, specify of Water:  wher, specify of Water:  Water actor  water water  water actor  water  water  water  water  water  water  ction Record  water  ction Record  water  ction Record  water  ction Record  ction R	rd - Casing Wall ickness provini PR 0  rd - Screen Slot No.	Depth (m/ft) From To FFZ 6   Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth To Depth (m/ft) From To Depth T	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Abandoned, Insufficient Supply Abandoned, other, specify Other, specify  Hole Diameter pth (m/ti) To Diameter (cm/in)  2 4 0 6	Recommended pure 13 Recommended pure 13 Recommended pure 14 Recommended pure 15 Recomm	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78
Diameter (Car(cm/in) (Co)  Outside Diameter (cm/in) (Plantin) (Plantin) (Water found at // (m/ft) [  Water found at // (m/ft) [  Business Name	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Plastic, Construction Material astic, Galvanized Salvanized Salv	ction Records, Steel)  ction Records, Steel)  ster Details  of Water:  her, specify of Water: her, specify of Water: her, specify of Water:  her, specify of Water:  wher, specify of Water:  wher, specify of Water:  Water actor  water water  water actor  water  water  water  water  water  water  ction Record  water  ction Record  water  ction Record  water  ction Record  ction R	rd - Casing Wall ickness provini PR 0  rd - Screen Slot No.	Depth (m/ft) From To FFZ 6   Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth To Depth (m/ft) From To Depth T	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Abandoned, Insufficient Supply Abandoned, other, specify Other, specify  Hole Diameter pth (m/h) To (cm/n)  240  ation  Vell Contractor's Licence No.	Recommended pure 13 Recommended pure 13 Recommended pure 14 Recommended pure 15 Recomm	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9	0 15 0 20 0 25 0 30 73 40 3 50 3 60	28.79 28.79 28.78 28.78 28.78 28.78
Diameter (Corollin)  Cutside Diameter (cm/in)  Water found at (cm/in)  Water found at (m/it) [  Water found at (m/it) [	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Plastic, Construction Material astic, Galvanized Salvanized Salv	ction Record d, Steel)  ction Record d, Steel)  ster. Details of Water: her, specify of wat	rd - Casing Wall Ickness   PR   PR   PR   Presh   Pres	Depth (m/ft) From To FFZ 6   Depth (m/ft) From To Depth (m/ft) From To Depth (m/ft) From To Depth To Depth (m/ft) From To Depth T	Water Supply Replacement Well Test Hole Recharge Well Observation and/or Monitoring Hole Abandoned, Insufficient Supply Abandoned, other, specify Other, specify  Hole Diameter pth (m/ti) To Diameter (cm/in)  2 4 0 6	Recommended pure 13 Recommended pure 13 Recommended pure 14 Recommended pure 15 Recomm	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9 Vell Location	70 20 20 30 30 30 50 50 50 60 30 60 30 60 30 60 30 60 30 60 30 60 80 80 80 80 80 80 80 80 80 80 80 80 80	28.79 28.79 28.78 28.78 28.78 28.78 N
Diameter (Cor(cn/in) Cord (Cor(cn/in)) Cord (Cord (Cord)) Cord (Cord) (C	Construction Hole OR Malvanized, Fibre uncrete, Plastic, Galvanized Material stic, Galvanized Material s	ction Records, Steel)  ction Records, Steel)  ster Details of Water: her, specify of Water:	rd - Casing Wall ickness   1   S	Depth (m/ft) From To THEZ 6   Depth (m/ft) From To	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Diameter pth (m/ft)   Diameter pth (m/ft)   Diameter   Other, specify   Other, specify   Other, specify   Other, specify   Diameter   Other, specify   Other, specify   Diameter   Other, specify   Other, spec	Recommended pure service of the serv	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of W	20 29.9 25 29.9 30 29.9 40 29.9 50 29.9 60 29.9 Vell Location instructions on the	15 20 20 20 30 30 30 50 50 50 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 50 50 50 50 50 50 50 50 50 50 50 50 50	28.79 28.79 28.78 28.78 28.78 28.78 28.78
Diameter (Cor(cnvin) Cord Cord Cord Cord Cord Cord Cord Cord	Construction Hole OR Malvanized, Fibre oncrete, Plastic, Galvanized Material astic, Gal	ction Records, Steel)  ction Records, Steel)  ction Records, Steel)  ster. Details of Water:  her, specify of Water:  her, specify of Water:  her, specify of Water:  mer, specify of Water:  her, specify of Water:  Code  H Code	rd - Casing Wall ickness   1   S	Depth (m/ft) From To	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Diameter pth (m/ft)   Diameter pth (m/ft)   Diameter   Other, specify   Other, specify   Other, specify   Diameter   Other, specify   Other, specify   Diameter   Other, specify   Other, speci	Recommended put  Recommended put  Recommended put  Recommended put  Well production (I/r  Yes No  Please provide a m  Comments:  Well owner's information package delivered	(Vmin / GPM)  mp depth (m/ft)  O  mp rate  prin / GPM)  Map of Wap below following  E Package Deliver	20 29.9 25 29.9 30 39.9 40 29.9 50 29.9 60 29.9 ell Location instructions on the	15 20 20 20 30 30 30 50 50 50 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 60 30 50 50 50 50 50 50 50 50 50 50 50 50 50	28.79 28.79 28.78 28.78 28.78 28.78 N
Diameter (Car(cm/in))  Coutside County (Plant)  Coutside Diameter (cm/in)  Water found at (m/ft) [ Water found at (m/ft) [ Business Name  Province  Business Address  Province  Business Address  Business Address  Province	Construction Hole OR Malvanized, Fibre Innorette, Plastic, Plastic, Plastic, Construction Material astic, Galvanized Material astic, Galvanized Material Gas Of Depth Kind Gas Of Well Control Well Control Meli Cont	ction Recor d, Steel)  ction Recor d, Steel)  ster Details f Water: her, specify of Water: her, specify ntractor ar actor well mber/Name)  Code her, specify of Water: her, specify ntractor ar actor	rd - Casing Wall ickness	Depth (m/ft) From To TEZ 6   Depth (m/ft) From To D	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Hole Diameter pth (m/ft)   Diameter (cm/in)   2 4 0 6 1	Recommended put  Recommended put  Recommended put  Recommended put  Well production (I/r  Yes No  Please provide a m  Comments:  Well owner's information package delivered	(Vmin / GPM)  mp depth (m/ft)  mp rate  min / GPM)  Map of Wap below following  ap below following	20 29.9 25 29.9 30 39.9 40 29.9 50 29.9 60 29.9 ell Location instructions on the	0 15 0 20 0 25 73 40 3 60 3 60	3269
Diameter (Car(cm/in))  Coutside County (Plant)  Coutside Diameter (cm/in)  Water found at (m/ft) [ Water found at (m/ft) [ Business Name  Province  Business Address  Province  Business Address  Business Address  Province	Construction Hole OR Malvanized, Fibre Innorette, Plastic, Plastic, Plastic, Construction Material astic, Galvanized Material astic, Galvanized Material Gas Of Depth Kind Gas Of Well Control Well Control Meli Cont	ction Recor d, Steel)  ction Recor d, Steel)  ster Details f Water: her, specify of Water: her, specify ntractor ar actor well mber/Name)  Code her, specify of Water: her, specify ntractor ar actor	rd - Casing Wall ickness   PR	Depth (m/ft) From To FFZ 6   Depth (m/ft) From To D	Water Supply   Replacement Well   Test Hole   Recharge Well   Dewatering Well   Observation and/or Monitoring Hole   Alteration (Construction)   Abandoned, Poor Water Quality   Abandoned, other, specify   Other, specify   Hole Diameter pth (m/ft)   Diameter (cm/in)   2 4 0 6 1	Recommended pure 13 Recommended pure 13 Recommended pure 14 Recommended pure 15 Recommended Press No	(Vmin / GPM)  mp depth (m/ft)  O  mp rate  prin / GPM)  Map of Wap below following  E Package Deliver	20 29.9 25 29.9 30 29.9 40 29.9 60 29.9 60 29.9 (ell Location on the structions on the structions on the struction of t	15 20 20 20 30 30 30 60 3 60 mistry U. 3. 22 4	28.79 28.79 28.78 28.78 28.78 28.78 28.78 N

0506E (2014/11)

Ministry of the Environment and Climate Change

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

Measurements recorded in:	14213224	Regulatio	<i>n 903 Ontario wa</i> Page <sub>.</sub>	ter Resources Act
Well Owner's Information First Name   Last Name / Organization				
First Name Last Name / Organization	om Homes	E-mail Address		Well Constructed by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal Code	Telephone I	No. (inc. area code)
34 BERT G. ARGUE DR. Well Location	STITTSVILLE	<u>= 1 ()N/1 14/150</u>	(1141012H	81251974
Address of Well Location (Street Number/Name)	Township	Lot	Concession	1
172 RIDGEMONT DR.	BECKW1 City/Town/Village	TH		
County/District/Municipality AN/ARK	ASHTO	Λ/	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublo		Other	<del></del>
NAD   8   3   8   4   5   7 2   5   904   00   1 Overburden and Bedrock Materials/Abandonment Sealing Re		Logical	100 Programme - 100 Programme - 100 Programme	
	Other Materials	General Description	1	Depth (m/ft) From   To
BROWN CLAY	STONES			87
GREY LIMESTONE RLA	HCK LIMESTO	NE		7 140
		34000		
Annular Space			ell Yield Testing	
Depth Set at (nt/lt) From To  (Material and Type)  Type of Sealant Used (Material and Type)	Volume Placed	After test of well yield, water was:  Clear and sand free	Draw Down Time Water Leve	Recovery  I Time Water Level
D 60 BENTONITE GROVE	T 2640	Other, specifyCLEARING	(min) (m/ft)	(min) (m/ft)
		If pumping discontinued, give reason:	Level 25.5	<b>1</b>
		D - i-t-l (-1 ( 60)	1 24.30	1 66,65
		Pump intake set at (m/ft)	2 32,87	2 63.22
Method of Construction Well	Use	Pumping rate (Vmin / GPM)	3 B5,69	3 59,98
Cable Tool Diamond Public Com	mercial Not used	Duration of pumping	4 38,25	56,58
□ Rotary (Conventional)     □ Jetting     □ Rotary (Reverse)     □ Driving     □ Livestock     □ Test		hrs + min	5 40,21	5 53.38
☐ Boring ☐ Digging ☐ Irrigation ☐ Cooli  ※Air percussion ☐ Industrial	ng & Air Conditioning	Final water level end of pumping (m/it)	10 47,80	10 4/3,60
Other, specify Other, specify		TO:23 If flowing give rate (I/min / GPM)	15 55,05	15 33.96
Gonstruction Record - Casing	Status of Well		20 50,02	1 1 3 3
Inside Open Hole OR Material Wall Depth (m/ft) Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steet) (cm/in) From To	Water Supply Replacement Well	Recommended pump depth (m/ft)	25 63,05	<del></del>
64 5750 188 st2 60	Test Hole Recharge Well	Recommended pump rate	3065,43	10000
04 STREC 0180 0' 60	Dewatering Well	(I/min / GPM) 5	40 67.00	
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	02,00	- Se.00
	Alteration (Construction)	Disinfected?	20.00	
	Abandoned, Insufficient Supply	Yes No	60 70,20	\$ 60 25,55
	Abandoned, Poor Water Quality	Please provide a map below following	ell Location instructions on the b	eck.
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From To	Abandoned, other, specify	**************************************		and a second sec
			T <sub>c</sub> y	1.
	Other, specify	Linguista	ĬŽ	'N
Water Details	Hole Diameter			
Water found at Depth Kind of Water: ☐ Fresh ☐ Untested From ☐ Gas ☐ Other, specify ☐ From	epth (m/ft) Diameter To (cm/in)		r RIDGEMON	
Water found at Depth Kind of Water: Fresh Untested	140 6		12	
(m/ft) ☐Gas ☐Other, specify			, 2	
(m/ft) Gas Other, specify		)	· _ &	
Well Contractor and Well Technician Inform	······································	-		
Susiness Name of Well Contractor  SOUNDERS WELL ORILLING LTD	Well Contractor's Licence No.		1	
	Municipality	Comments:		
1680 SHEEL DR	BRAESIOE	·		
Province Postal Code Business E-mail Address		Well owner's Date Package Delivere	d	rny Ilea Only
Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name	e, First Name)	information 2017 01	- 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10	try Use Only 2243284
0/3/6/3/5/4/P SAVVOERS 1	TROY	delivered Date Work Completed		- 10407 507
Vell Technician's Licence No. Signature of Technician and/or Contractor C	Sate Submitted 见图170见第	Q0117011	36 Received	1 7 2017

Pontari	Ministry of the Environme and Climate Change	1	. (Place Sticker and	-	Regulation	V 903 Ontario W	-	Record
Measurements rec	orded in: Metric Imperia	1 /10	213226	<b>}</b>		Pag	e	of
Well Owner's In	formation						William Kark	vest salation
First Name	Last Name / Organiz	Yes	· IIAMIA	E-mail Address				Constructed
Mailing Address (Str	reet Number/Name)	CUSION Munic		Province	Postal Code	Telephone		ell Owner area code)
54 RE	- A A A A A A A A A A A A A A A A A A A	OR S	TITISVIL	LE ONT				
Well Location								
Address of Well Loc	ation (Street Number/Name)	Towns	BECKWI	77+	Lot / ጎ	Concessi	on	
County/District/Mun		City/To	own/Village		10	Province	Posta	I Code
LA	NARK		ASHTO			Ontario		
UTM Coordinates Z	one Easting Northing	Munic	ipal Plan and Sublot	Number		Other		
NAD   8   3	Bedrock Materials/Abandonmen	Sealing Record (s	ee instructions on the	hack of this form)	ANAGO ANG		Steen avecania	entrodentelen
General Colour	Most Common Material	Other M			ral Description		Dep	oth (m/ft)
BROWN	RRIKEN ROOK			FI	7.1		From C	17
DOUNG	DAUROU MUSE			/ / *	- 10°		1	+5-
7 ELUI								197
134/14	LIMESTONE	102200			AUG. TO STATE OF THE STATE OF T		<del>2</del>	1115
GREY	LIMESTONE	LAYER					12	170
			IMESTON	E .	***************************************			
		4 GREE	N SHALE	, ,				
								1
	Annular Spac	3			Results of W	ell Yield Testin		
Depth Set at (m/fi	t) Type of Sealant U (Material and Type		Volume Placed 5	After test of well yield,  Clear and sand t		Draw Down		Mater Level
6 6	0		455	Other, specify		(min) (m/ft)		(m/ft)
-0 60	) BENTOWIT	z Gavit	0000	If pumping discontinue	******	Static 27.	10	
						1 53.3	D 1	38.12
				Pump intake set at (m	√ft)	-	4 2	32.92
				130		1		2001
Method of	Construction	Well Use		Pumping rate (Vmin / 0	<u> 3PM)</u>	3 36,5		07.01
Cable Tool	Diamond Public	Commercial	☐ Not used	Duration of pumping		4 38,6	3 4	28,32
Rotary (Convention Rotary (Reverse)	nai) Jetting Domestic Driving Livestock	☐ Municipal ☐ Test Hole	☐ Dewatering ☐ Monitoring	hrs +1	min	5 38,0	J] 5	28.13
Boring	☐ Digging ☐ Imigation	Cooling & Air	Conditioning	Final water level end	<i>p</i>	10 4/57	g 10	27.93
Air percussion Other, specify	industrial Other, spe	cify		If flowing give rate (Vm	D ( pin/GPM)	15 42,8	LJ 15	27.68
	Construction Record - Casing		Status of Well	in nothing give rate (in		20 4 2 1	19 20	5757
	Hole OR Material Wall snized, Fibregless, Thickness	, , ,	Water Supply	Recommended pump	depth (m/ft)	300	F B	07 07
	ete, Plastic, Šteel) (cm/in) Fro	"e   "	Replacement Well Test Hole	Recommended pump	rate	25 45.8	25 25	27.51
54 5	TEFI DIST OF		Recharge Well	(I/min / GPM) 8	rigie	30 4 3.9	8 30	21.55
		1 - 10	Dewatering Well Observation and/or	Well production (Vmin	/ GPM)	40 44;	2 40	27.54
			Monitoring Hole Alteration	9	(a.marellow)	50 44.3	35 50	27.54
			(Construction)	Disinfected?  XYes No		60 -/4.	60	27.53
	Construction Record - Screen		Abandoned, Insufficient Supply	Aiss	Man of M	lell Location		<u> </u>
Outside	Material	Depth (m/ft)	Abandoned, Poor Water Quality	Please provide a ma			n the bac	k. /
Diameter (cm/in) (Plastic	a t t t at the Side No. 1	эт То 🗆	Abandoned, other, specify		_15	υ <u>`</u>	_	6
				ľ	L		-,	N
			Other, specify		Χ <	700		
	781-4 Ph. 4-11-		Pi	i i i i i i i i i i i i i i i i i i i		Z00		1
Water found at Dep	Water Details  oth Kind of Water: ☐ Fresh ☑Unt			8				F
70 (m/ft) 🗆 (	Gas Other, specify	From	To (cm/in)					Z
Water found at Dep			90   6	), in the second				7
Water found at Dep								W
•	Sas Other, specify							Š
	Well Contractor and Well Tech							RIOGENIA
Business Name of			ntractor's Licence No.					
SAUNO:	Street Number/Name)	Municip	pality 1 7	Comments:				
IAPP S	CHEELDR	RR	AESIDE					
Province	Postal Code Business E-ma	ail Address	The second secon					
_ ON /	149ALGO	nian (Last Nome Fire	t Name)	information	Package Deliver	red Min	nistry Us	e Only
Bus. relephone No.	(inc. area code) Name of Well Techni	CRC TR	09	package delivered	1/00		440	nppa
Well Technician's Lice	ence No. Signature of Technician and	or Contractor Date St	( 1 mg ) ( 2 mg ) ( 1 mg )	MYes In	Work Completed	the state of the s	JN 1 5 2	2017
TOL	1/1 July Ser	<u>1 30</u>	110000	No We	11/100	D D Received	3	
0506E (2014/11)	V		Ministry's Copy			© Que	ans Printer f	for Onterio, 2014

0506E (2014/11)

Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric   Measurements recorded in: ☐ Measure	A21324	S Regulation	Regulation 903 Ontario Water Resources Act			
Well Owner's Information First Name   Last Name / Organization	n	E-mail Address	-	☐ Well Constructed		
Mailing Address (Street Number/Name)	CUSTOM HOME			by Well Owner		
54 BERT G ARGUE	DR. STITTSVIL	LE ONT	le leiephone	No. (inc. area code)		
Well Location	T					
Address of Well Location (Street Number/Name)	Township RECKW 17	TH Lot 16	Concessio	л		
County/District/Municipality  LANARK	City/Town/Village ASATOA	1	Province Ontario	Postal Code		
JTM Coordinates Zone Easting Northing	Municipal Plan and Sublo		Other			
NAD 8 3 10 4 1 5349 5003	9147		2001W-30000000000000000000000000000000000			
Overburden and Bedrock Materials/Abandonment Se General Colour Most Common Material	Other Materials	е back of this form) General Description	on	Depth (m/ft)		
GREY BLASTEN ROCK		FILL		From To		
BROWN HYELLOW CLAY		, ,		24		
GREY LIMESTONE				4 140		
				,		
			Language Control of the Control of t			
	····		ar a	100		
Annular Space	Volume Placed 3	After test of well yield, water was:	Well Yield Testing Draw Down	Recovery		
From To (Material and Type)	(REDIT YCL	☐ Clear and sand free ☐ Other, specify LEAR M		el Time Water Level (min) (m/ft)		
0 60 BENTONITE Q	POUT , 768	If pumping discontinued, give reaso	Statio as a	3		
			1 26.40	1.56.35		
		Pump intake set at (m/ft)	2 29,69			
	and the Charles and the Charles	Pumping rate (Vmin / GPM)	3 31.62	2 3 46.70		
Method of Construction	Well Use Commercial Not used	10	4 33,3			
☐ Rotary (Conventional) ☐ Jetting ☐ Domestic ☐ Rotary (Reverse) ☐ Driving ☐ Livestock	☐ Municipal     ☐ Dewatering       ☐ Test Hole     ☐ Monitoring	Duration of pumping / hrs + / min	5 35,16			
Boring Digging Imigation	Cooling & Air Conditioning	Final water level end of pumping (m				
★ Air percussion       Industrial         Other, specify       Other, specify		63:40 If flowing give rate (Vmin / GPM)	15 46.25	15 21,3		
Construction Record - Casing	Status of Well		20 49.82	20 20, 70		
Diameter (Galvanized, Fibreglass, Thickness	h (m/ft) Water Supply To Replacement Well	Recommended pump depth (m/ft)	25 52.61	D 25 20 6		
(cm/in) Concrete, Plastic, Steel) (cm/in) From	Test Hole Recharge Well	Recommended pump rate (I/min / GPM)	-1/	3 30 20.6		
07 SIEEL 8100 O	Dewatering West	Q d	40 58 0	2 40 00 62		
	Observation and/or Monitoring Hole	Well production (Vmin / GPM)	50 61.69	( 50 00.6		
	Alteration (Construction)	Disinfected?  No	60 63.40	0 00 00 63		
Construction Record - Screen	Abandoned, Insufficient Supply		Well Location	Ta Mose?		
Outside Material Stat No.	h (m/ft) Abandoned, Poor Water Quality	Please provide a map below follo		the back.		
(cm/in) (Plastic, Galvanized, Steel) Sidt No. From	To Abandoned, other, specify	<b>3</b> 000000000000000000000000000000000000	Nahidan-o	7		
	Other, specify		~ D	50'1		
		20	, V	4		
Water Details  Water found at Depth Kind of Water: ☐ Fresh ☐ Untested	Hole Diameter  Depth (m/ft) Diameter			publishing of the control of the con		
$/29$ (m/ft) $\square$ Gas $\square$ Other, specify/11/0RO FRX	From To (cm/in)					
Water found at Depth Kind of Water: ☐Fresh ☐Untested  (m/ft) ☐Gas ☐Other, specify	60 190 0	Ĭ		1		
Water found at Depth Kind of Water: Fresh Untested		2		materials.		
(m/ft) Gas Other, specify		RIBEEMONT				
Well Contractor and Well Technicia Business Name of Well Contractor	Well Contractor's Licence No.	**************************************		·		
SAUNDERS WELL ORILLI		Comments	AND CONTRACTOR CONTRAC	***************************************		
Business Address (Street Number/Name)	Municipality BRAESIOE	Comments:				
Province Postal Code Business E-mail Add		Well and I have				
Bus. Telephone No. (inc. area code) Name of Well Technician (	(Last Name, First Name)	Well owner's information package	ered Minis Audit No.	stry Use Only		
4)136035640 SAUNDER	S TROY	delivered Data Work Complete	1/240/ *	-L0U008		
Well Technician's Licence No. Signature of Technician/and/or C	ontractor Date Submitted	X Yes		N 1 5 2017		

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record and Climate Change A213227 Regulation 903 Ontario Water Resources Act Measurements recorded in: Metric Merial Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed TOMAR by Well Owner Mailing Address (Street Number/Na Postal Code Telephone No. (inc. area code) STITISVIL ONT Well Location Address of Well Location (Street Number/Name) Township Lot Concession 191 RIDGEMONT County/District/Municipality BECKWITH City/Town/Village LANARK LANARK Postal Code Province ASHTON Municipal Plan and Sublot Number Ontario Northing NAD | 8 | 3 | 8 4 | 15 | 3 | 28 | 500 | 3 | 9 | 7 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material Other Materials General Description From 5 2 BROWN SHALE LOAM GREY 5 = 140 LIMESTONE LAYERS OF REDYGREEN SHALE Annular Space Results of Well Yield Testing Depth Set at (m/ft)
From To Type of Sealant Used (Material and Type) Volume Placed After test of well yield, water was: Recovery Clear and sand free
Other, specify Clark (First HE) Time Water Level Time | Water Level (min) (m/ft) 60 BENTONITE GROUT If pumping discontinued, give reason. Level 23,44 Pump intake set at (m/ft) /30 Pumping rate (I/min / GPM) Method of Construction Well Use Duration of pumping Cable Tool 27.36 ☐ Diamond ☐ Public Commercial Not used Domestic Livestock Rotary (Conventional) \_\_\_\_ Jetting Municipal ☐ Dewatering hrs + O min 5 D7.47 Rotary (Reverse) Driving Test Hole ☐ Monitoring Boring ☐ Digging Irrigation Cooling & Air Conditioning Final water level end of pumping (m/ft) 27 Air percussion ☐ Industrial 🗍 Other, specify ☐ Other, specify 15 27.6Z If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 / Inside Diameter (cm/in) Open Hole OR Material Wall Depth (m/ft) Water Supply Recommended pump depth (m/fr) Thickness (Galvanized, Fibreglass, Concrete, Plastic, Steel) Replacement Well 27.70 <u> /30</u> From (cm/in) Test Hole Recommended pump rate o 188 Recharge Well 60 (I/min / GPM) STEEL Dewatering Well 10 40 Observation and/or Well production (I/min / GPM) Monitoring Hole 12 27.75 ☐ Alteration (Construction) XYes 🗌 No Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Diameter Please provide a map below following instructions on the back. Water Quality Material Slot No. (Plastic, Galvanized, Steel) Abandoned, other, From To (cm/in) specify B Other, specify Water Details Hole Diameter PUCERUNT Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter Water found at Depth Kind of Water □ Fresh MI Intested (cm/in) X 6" ter found at Depth Kind of Water: Fresh XUntested 132 Źm/ft) □Gas □Other, speci**k NORO FRA**C Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information 81719 SAUNDERS Municipality Comments BRAES/DE ness E-mail Address KO11160 Date Package Delivered Ministry Use Only Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) information Audit No. **Z**260670 2017/205/63 50 48 SAUNDERS TROY Date Work Completed of Technician and fr Contractor Date Submitted Yes Yes JUN 1 5 2017 2011700 BS ☐ No

Ministry's Copy

© Queen's Printer for Ontario 2014

Ontario  Measurements record	_		No. (Place Sticker an		Regulation	W 903 Ontario W Pag	ater Res	lecord ources Act
Well Owner's Info							ossidaesen:	
First Name	Last Name / Organiz		1 HOMES	E-mail Address				Constructed ell Owner
Mailing Address (Street	t Number/Name)  T. G. ARGUE. D	M	JUNICIPALITY 517715VILLE	Province ONT	Postal Code	Telephone	No. (inc.	area code)
Well Location	I G'ALCONE D	<u>"                                    </u>	) I I NOVI —E					
Address of Well Location	on (Street Number/Name)	Ti	OWNSHIP BECKW 1	TH	Lot 7	Concessi	on	
County/District/Municip		C	ity/Town/Village			Province	Postal	Code
UTM Coordinates Zone	UARK e Easting Northing	N.	ASHTO. funicipal Plan and Sublot			Ontario		
NAD   8   3 / 8		3968						
Overburden and Bea	drock Materials/Abandonment Most Common Material		rd (see instructions on the er Materials		eral Description	1	Der	oth ( <i>m/f<u>t</u></i> )
BROWN	CLAY	SH					From	4/5
GREY	LIMESTONE			LAYERS			45	140
0.00		0,-		20,000				
								_
				· · · · · · · · · · · · · · · · · · ·				
	Annular Space	National Contract Con			Results of W	ell Yield Testin	n removatelité	wer State Consumer
Depth Set at (m/ft) From   To	Type of Sealant Us	sed	Volume Placed 3	After test of well yield,	water was:	Draw Down	R	Recovery Water Level
From To	(Material and Type	GROÙT	2768	☐ Clear and sand	EARING	(min) (m/ft)	(min)	(m/ft)
0 00	Borrow (	greve i	0 700	If pumping discontinue	ed, give reason:	Static 27.9	4	
220000000000000000000000000000000000000					-21	1 3/14	3 1	32.40
1				Pump intake set at (m.	vit)	2 32.4	U 2	30.0
Method of Co	instruction	Well Us	е	Pumping rate (Vmin / (	ЭРМ)	3 32.9	/5 3	28.70
Cable Tool Rotary (Conventional	Diamond Public Diamond Domestic	Comme		Duration of pumping		4 33,2	5 4	28.0
Rotary (Reverse)	☐ Driving ☐ Livestock	☐ Test Hol	e 🔲 Monitoring	hrs +		5 55 5	0 5	28.0
☐ Boring	☐ Digging ☐ Imigation ☐ Industrial	_	& Air Conditioning	Final water level end		10 34.9	10	24.95
Other, specify	Other, spen	city	Status of Well	If flowing give rate (Vm	nin / GPM)	15 541	(5) 15	27,94
Inside Open Hol	le OR Material Wall	Depth ( <i>m/ft</i> )	Water Supply	Recommended pump	depth (m/ft)	20 501	20	27-74
Diameter (Galvanize (cm/in) Concrete,	ed, Fibreglass, Thickness, Plastic, Steel) (cm/in) Fro	1	Replacement Well Test Hole	Recommended pump	) rate	25 (5.). (	25	27.44
64 STE	EL 0188 07	~ 60	Recharge Well Dewatering Well	(I/min / GPM)	7.50	30 20 20	>⇔( 30	27.97
			Observation and/or Monitoring Hole	Well production (I/min	(GPM)	40 55:87	5 40 5 50	21.77
			Alteration (Construction)	Disinfected?	/	50 35.7	2 50	21.74
			Abandoned, Insufficient Supply	Yes No		60 56 - 0	) 60	27-97
Outside M	Instruction Record - Screen	Depth ( <i>m/lī</i> )	Abandoned, Poor Water Quality	Please provide a ma		Vell Location ing instructions o	n the bac	k.
	alvanized, Steel) Slot No. Fro	т То	Abandoned, other, specify			ſſ		74
			Other, specify		***********	PRESENTATION OF THE PROPERTY O	1.	lN
						X	Q	
Water found at Depth	Water Details Kind of Water: Fresh Unte	and and in the second	th (m/ft) Diameter				$\bigcirc$	
80 THO Gas	Other, speciff YORO FT	79CK From	To (cm/in)				15	
Water found at Depth (m/ft) ☐ Gas	Kind of Water: Fresh Unite	ested 60	140 8				<u>ఫ</u>	
Water found at Depth		ested		-	erromente/en/en/en/en/en/en		Semoni	
(m/ft) ☐ Gas	Other, specify	ician Informat	lon	*			8	
Business Name of We	II Contractor	LID WE	ell Contractor's Licence No.			-	8	
Business Address (Str	eet Number/Name)		7 0 / 7 unicipality	Comments:				
1000	HEEL DR.	il Address	BRAESIDE					
OUT	Postal Code Business E-ma	n Address			Package Delive	red Min	nistry Us	e Only
Bus. Telephone No. (inc.	area code) Name of Well Technic	ian (Last Name,	First Name)	information package delivered	17/10	10 Audit No	<b>Z</b> 26	0689
Well Technician's Licence	e No. Signature of Technican and	or Contractor Da	ite Submitted	Yes Date	Work Complete	°, \  OCT	31;	2017
0506E (2014/11)	1 - Joy sech		( <u>()                                   </u>		11/1/1/	A Page ivec		for Ontario, 2014
	//		The state of the s					

Well Record Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) and Climate Change Regulation 903 Ontario Water Resources Act A227987 Neasurements recorded in: 🔲 Metric 📉 Imperial Well Owner's Information ☐ Well Constructed E-mail Address First Name Last Name / Organization TOMAR CUSTOM HOMES by Well Owner Postal Code Telephone No. (inc. area code) Municipality Vailing Address (Street Number/Name) 54 RERT GRAGGUE STITISTILLE ONT-Nell Location Concession Address of Well Location (Street Number/Name) 222 RIDGEMONT BECKWITH Postal Code Town/Village ASHTOV Province nty/District/Municipality Ontario Other Municipal Plan and Sublot Number Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Description Most Common Material FILL BROWN CLAY, LOAM, SHAVE 3 SHALE BROKEN LIMESTONE GREEN YRED SHALE LAYERS LIMESTOUR Results of Well Yield Testing Annular Space After test of well yield, water was: Draw Down Recovery Volume Placed (nate) yd 3 Depth Set at (m/ft) From | To Type of Sealant Used Clear and sand free ime Water Level Time Water Level (Material and Type) Other, specify CLEARINE (m/ft) . 768 RENTONITE GROUT 60 Static Level 36.20 If pumping discontinued, give reason: 40.0 1 43.90 Pump intake set at (m/ft) 4/80 2 39.40 110 43,15 3 37,30 Pumping rate (Vmin / Method of Construction Well Use 4/4.20 4 36.45 ☐ Not used Diamond Public Commercial Duration of pumping
hrs + min Domestic Municipal Rotary (Conventional) Jetting Dewatering 5 4/5,55 5 36,30 ☐ Driving Livestock Test Hole Monitoring Rotary (Reverse) 10 4/6.70 10 36 -25 Boring \_\_ Imigation Cooling & Air Conditioning Final water level end of pumping (m/ft) Digging 47,94 \_\_ Industrial Air percussion 4/7,35 15 36,20 Other, specify Other, specify If flowing give rate (Vmin / GPM) Status of Well Construction Record - Casing 20 4/7.55 20 36,30 Inside Diamete Open Hole OR Material Wall Thickness *(cm/in)* Depth (m/ft) Water Supply Recommended pump depth (m/ft) 25 47,70 25 36.20 (Galvanized, Fibreglass, Concrete, Plastic, Steel) Replacement Well //0 (cm/in) Test Hole Recommended pump rate 47.75 30 36-20 a/88 60 Recharge Well STEEL Dewatering Well 40 36-20 Observation and/or Well production (Vmin / GPM) 50 36-20 Monitoring Hole 17.90 Alteration (Construction) Disinfected? 60 36-20 604/7.94 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Water Quality Material (Plastic, Galvanized, Steel) Depth (m/ft) Diameter Abandoned, other, (cm/in) specify Other, specify RESENDEN DR. Water Details Hole Diameter Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested Diameter (cm/in) 8 5/m/ft) ☐ Gas ☐ Other, specify Water found at Depth Kind of Water: Fresh Auntested 60 120 6 / OS(m/ft) □ Gas □ Other, specify
Water found at Depth Kind of Water: □ Fresh □ Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No SAUNDERS WELL DRILLING OTD Business Address (Street Number/Name) 487 16 80 SCHEEL DR BRATHUE Postal Code Business E-mail Address KOPLGO Ministry Use Only Well owner's Date Package Delivered information Audit No. **Z**260700 Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 2017/10/10 package delivered Date Work Completed Yes Yes OCT 3 1 2017 201176919 2017/1/6/60 ☐ No

Ministry's Copy

Well Record Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) and Climate Change Regulation 903 Ontario Water Resources Act A213255 Measurements recorded in: 

Metric 

Imperial Well Owner's Information E-mail Address Last Name / Organization First Name by Well Owner TOMAR CUSTOM HOMES Province Postal Code Telephone No. (inc. area code) Mailing Address (Street Number/Name ONT. 54 BERT G. ARGUE TITISYLLE Well Location Concession Address of Well Location (Street Number/Name) 18 179 RIDGEMONT
County/District/Municipality BECKWITH Postal Code City/Town/Village Province Ontario LANARK ASHTON UTM Coordinates Zone, Easting
NAD | 8 | 3 | 10 | 11 | 15 | 26 | Other and Sublot Number Northing 500401 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) From To General Description Most Common Material Other Materials RROWN EUAY FILL LOAM, STONES 오돌 YELLOW CLAY LAYERS OF GREEN GREY LIMESTONE 4-RED SHAKE Results of Well Yield Testing Annular Space Volume Placed 3 After test of well yield, water was: Draw Down Recovery Type of Sealant Used Depth Set at (m/ft)
From | To (Material and Type) Clear and sand free Time | Water Level | Time | Water Level Other, specification Office Of (m/ft) (m/ft) (min) 50 e690 RENTONITE GROUT Static If pumping discontinued, give reason: CEMENT GROOT ≥/\$O 29.60 1 Pump intake set at (m/ft) 110 Pumping rate (Vmin / GPM) 31.0 Well Use Method of Construction Duration of pumping ☐ Diamond Public Domestic 31,32 Cable Tool
Rotary (Conventional) Commercial ☐ Not used Jetting Municipal Dewatering \_\_\_/\_ hrs +\_\_\_\_\_ min 31.55 Test Hole Rotary (Reverse) Criving Livestock ☐ Monitoring Boring Digging Cooling & Air Conditioning Final water level end of pumping (m/ft) 10 BQ,D 10 27.60 32.30 Air percussion
Other, specify Industrial Other, specify 32.10 If flowing give rate (I/min / GPM) Status of Well Construction Record - Casing 20 32. 20 20 Water Supply Depth (m/ft) Recommended pump depth (m/ft) Open Hole OR Material Wall Diameter (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Replacement Well 25 32,32,25 27.01 110 From ☐ Test Hole Recommended pump rate 32,20 <sub>2</sub>/88 Recharge Well STEEL (Vmin / GPM) Dewatering Well Observation and/or Well production (I/min / GPM) Monitoring Hole 32,30 Alteration Disinfected? (Construction) Yes 🗌 No Abandoned, Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Water Quality Depth (m/ft) Material (Plastic, Galvanized, Steel) Diameter (cm/in) Abandoned, other, specify B X Other, specify POSTE CONT Water Details Hole Diameter Water found at Depth Kind of Water: Fresh X Untested Depth (m/ft) Diameter 63 (m/ft) Gas Other, specify 120 6 Water found at Depth Kind of Water: ☐ Fresh 🍞 Untested (m/ft) Gas Other, specify
Water found at Depth Kind of Water: W found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No.

4 8 7 9 SAUNDERS WELL DRILLING LTD siness Address (Street Number/Name) Municipality Comments: BRAESIDE Postal Code Business E-mail Address KOA160 Ministry Use Only Date Package Delivered Well owner's information Plechone No. (Inc. area code) Name of Well Technician (Last Name, First Name) 201709128 Audit No. Z260690 OCT 3 1 2017 package delivered

Yes ☐ No

No. Signature of Technician and/or Contractor Date Submitted

received

Date Work Completed

201101108

# Ontario Ministry of the Environment and Climate Change

0506E (2014/11)

Well Tag No. (Place Sticker and/or Print Below)
3 ,
A > > 9 M A

Weasurements rec	corded in:   Wet	ric 🖄 Imperi	al A	228006		Regulation	1 903 Ontario Pa	vvater Res ige	of
Well Owner's Ir									11.
First Name		Name / Organi MAR (		HOMES	E-mail Address				Constructed ell Owner
	reet Number/Name)		<b>~</b> ~	Municipality	Province	Postal Code	Telepho		area code)
ى 7 ك Well Location	EKI G., 1	<u>ARGUE</u>	DR	STITISTIL	E ONT	<u> </u>			
Address of Well Loc	cation (Street Numbe			Township		Lot	Conces	sion	
	RIDGETUON	JT DR		BECKWITH	**	10			
County/District/Mun	ANARK			City/Town/Village ASHTON	son <sub>t</sub> ,		Province Ontario	Posta	l Code
JTM Coordinates Z	12/11/15	Northing		Municipal Plan and Suble			Other		
NAD   8   3  /	J [7] I D S   A Bedrock Materials	/	3 8 4 9   Sealing Rec	ord (see instructions on th	in healt of this form)			V. P. SP. SE	
General Colour	Most Common			ther Materials		eral Description		Dep From	oth ( <i>m/ft</i> )
BROWN	FILL							(5)	2
BROWN	LOAM		Str	HE				1 à	4
CREY	LIMESTON	Œ	BLACK	LINESTONE-	-			4	120
				ANDSTONE				//	
				EN SHILE LA	HERS				
			7						
						***************************************			
		Annular Spac			Janeary Commission of the Comm		ell Yield Testir		i inggangang
Depth Set at (m/ft From To		pe of Sealant U laterial and Type		Volume Placed 3	After test of well yield,  Clear and sand	free	Time Water L		ecovery Water Leve
0 60	BENTO,	VITE G	ROUT	0910	Other, specify	LEARING	(min) (m/ft		(m/ft)
					If pumping discontinue	ed, give reason:	Level 3/13	30	
		(					13,2	5 1	<u> 31.2</u>
:		2000 C			Pump intake set at (m	/ft)	2 3/,4	0 2	31.21
Method of (	Construction	1 75050000000000000000000000000000000000	Well U	Se	Pumping rate (Vmin / C	GPM)	3 3/14	3 3	3/,20
Cable Tool	Diamond	Public	☐ Comm	ercial Not used	Duration of pumping		4 3/4	3 4	31. ZC
☐ Rotary (Convention ☐ Rotary (Reverse)	nal)		☐ Munici ☐ Test H		hrs + 0	min	5 3/, 4	/3 5	31, 20
Boring  Air percussion	☐ Digging	Irrigation	Cooling	g & Air Conditioning	Final water level end o	of pumping (m/fi)	10 3/.4	5 10	3,20
Other, specify		Other, spe	cify		If flowing give rate (I/m	oin / GPM)	15 3/.4	5 15	3420
	Construction Reco			Status of Well			20 3/14	5 20	21,20
Diameter (Galvar		nickness	Depth ( <i>m/ft)</i> m To		Recommended pump	depth (m/ft)	25 3/4	5 25	2/. Zn
11		(cm/in) F10	7	☐ Test Hole ☐ Recharge Well	Recommended pump	rate	30 3/.4		37. 20
54 SIE	0.	200 ()	60	Dewatering Well	((/min/GPM) / 5		40 3/.4	5 40	3/.2n
				Observation and/or Monitoring Hole	Well production (Vmin_	<u>(.</u> GРМ) Т	50 3/.4	5 50	2/20
				Alteration (Construction)	Disinfected?		1 - 1 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	75	31 -V
				Abandoned, Insufficient Supply	Yes No		60 57.7	·	ي ارى
Outside	Construction Reco		Depth (m/ft)	Abandoned, Poor Water Quality	Please provide a ma		ell Location ng instructions o	on the back	<u>Harroffyanse</u> C
Diameter (Plastic,	Galvanized, Steel)	Slot No. Fro	1	Abandoned, other,					1
								IId	/
				Other, specify		man delegation vis	```		
	Water Details	<u></u>		Hole Diameter		i M			
76 D	th Kind of Water:			oth (m/ft) Diameter To (cm/in)	O company (1) Equipment			11 8	
(m/ft) ☐G: /ater found at Dept				180 65	000000000000000000000000000000000000000			RIOSEMON	
	as Other, specify		100			and the same same same same same same same sam	1777560000000000000000000000000000000000	ダル	
/ater found at Dept ( $m/ft$ ) $\Box$ G	_	∏Fresh ∭Unte	ested		NATA OF THE PROPERTY OF THE PR			113	
[////y] G	Well Contractor a		ician Informa	ition					
usiness Name of V	Vell Contractor	~	graga 650 ann ag barrar ann garaga ga a	'ell Contractor's Licence No.				Topological Control of the Control o	
All the proof plants	Street Number/Name	RILLING-	LIC) A	1 5 1 9 unicipality	Comments:			- 1	
1680 S	CHEEL DP-	· .	1	3RAES/DE	John Market				
rovince	11/ 6	Business E-mai	l Address		Natali assession To-1 5	lookog - Diri		micton 11	Onk
us.Telephone No. (ii	nc. area code) Name			, First Name)	information _	'ackage Delivere NRDB i	Avelit No	nistry Use	7 1 7
3/R6831	1 2/km/   5 %2   6 mm/*/	UNDERS	The state of the s			Vork Completed		4AD 2	n gaja
TIS I	No. Signature of	Lawre	or Contractor D	ate Submitted	□ No 20	18032	Baraina	MAR 2	<i>(</i>

Ministry of the Environment Mall Tag No. (Plan

Wall Pacard

CP Onta	ario and Cli	mate Change		ig No. (Place Sticker ar		Regulation	903 Ontario W		ecoru
Measurements	recorded in:	Metric 💢 Imperial	1 4	252424	/	// regulation	Pag		of
Well Owner's	s Information								
First Name	I	ast Name / Organization TOMAR	on Hio na é	<u> </u>	E-mail Address				Constructed
Mailing Address	(Street Number/Nar			Municipality	Province	Postal Code	Telephone		ell Owner
54		· ARGUE	DR.	STITISVILLE		K1215R			
Well Location				T		11 -4			
Address of Well	Location (Street Nur RIDGEMO	INT DRI		Township BECKW L	TH	Lot 21	Concessi	on	
County/District/N	Municipality			City/Town/Village ASHTC	1/1/		Province	Postal	Code
	ANARK es Zone , Easting	, Northina		Municipal Plan and Sublo			Ontario Other		
NAD   8   3	la Colci e e-		1114						
10,000,000,000,000,000,000,000			SAMPLED ST. WOSERVER	ord (see instructions on the	I			Dan	th (no (ft)
General Colour		mon Material		ther Materials	Ger	neral Description		_	th (m/ft)
BROW		ND		STONES_	-			<u> </u>	1
GREY		ESTONE		13-0-0- A.F	HRA	CTURE		1	1
ORE!	Limi	ESTONE		YERS OF				2	180
			19.RE	Y SANDSTON	UE				
						·····			<del> </del>
									<del> </del>
									<u> </u>
				in the second	**************************************			VALUE OF THE PARTY	DOWN CONTRACTOR OF THE PARTY OF
Depth Set at (	m/ft)	Annular Space Type of Sealant Used		Volume Placed ≤	After test of well yield		ell Yield Testing Draw Down	Section Strategic Section (Section Section Sec	ecovery
From	To O = A	(Material and Type)	<u> </u>	(masse) yd	☐ Clear and sand ☐ Other, specify		Time Water Let	vel Time	Water Level (m/ft)
0 6	so bea	VIONITE (	100%	.896	If pumping discontinu		Static 20.2		
							1 25,0		20.25
					Pump intake set at (	m/ft) <sub>r</sub>	2 24.5		20.25
					170	-	3 24.30		
SOURCE OF STREET, SOURCE STREET, SOURCE	of Construction		Well U	CONTROL CONTRO	Pumping rate (Vmin /	(GPM)	- 11		20.25
Cable Tool Rotary (Conve	☐ Diamono ntional) ☐ Jetting	d ☐ Public  ☑ Domestic	☐ Comm ☐ Munici		Duration of pumping		4 24.7	5 4	<u> 20.25</u>
☐ Rotary (Reven	se)	Livestock Imigation	Test H		hrs +O Final water level end	-	5 24.2		<u> 20-25</u>
Air percussion		☐ Industrial	_	g & All Collaboratio	24-9		10 24-3	30 10	<u>2025</u>
Other, specify		Other, specify	(Account participation of the		If flowing give rate (Vi		15 24.3		<u> 20-25</u>
Inside Or	Construction R  oen Hole OR Material	T T	oth ( <i>m/ft</i> )	Status of Well  Water Supply	Recommended purn	no depth (m/ft)	20 24.3	5 20	20.25
Diameter (G (cm/in) Co	alvanized, Fibreglass, Increte, Plastic, Steel)	Thickness (crrr/in) From	To	Replacement Well	/70		25 243.	5 25	20-25
64	STEEL	-188 OT	60	Recharge Well	Recommended pum (Vmin / GPM)	np rate	30 24-	3\$ 30	20.25
				☐ Dewatering Well ☐ Observation and/or	Well production (Vmir	n/GPMI	40 24.4	10 40	20-25
				─ Monitoring Hole ☐ Alteration	10°		50 24.4	O 50	20-25
-				(Construction)  Abandoned,	Disinfected?  X Yes No		60 24.40	O 60	20-25
	Construction F	lecord - Screen		Insufficient Supply  Abandoned, Poor		Map of W	ell Location		
Outside Diameter (Dia	Material		oth ( <i>m/ft</i> )	Water Quality	Please provide a m	ap below followi	ng instructions or	the back	· 1
(cm/in) (Pla	stic, Galvanized, Steel)	From	То	Abandoned, other, specify	power/linear	Manage and a second	programmer intervente		, /
				Other, specify	a. a	•	,		' //
						X	L		
Water found at 0	Water De	tails r:		Hole Diameter	210SEMONT				(
83 (m/ft)	1		From	pth (m/ft) Diameter To (cm/in)	(#				V
Water found at I	Depth Kind of Wate	r: Fresh AUnteste		180 6"	η <sub>o</sub> ,				(
120-1899 [ Water found at I		e <i>cify<u>├├YOR</u>O FR</i> r: □Fresh □Unteste			\$	- Notation	M-1971—	reen de	!
(m/ft) [	· ·		_						
		or and Well Technici	pantiecos il ciery (ministrantes-		)				
	of Well Contractor	DRILLING		/ell Contractor's Licence No. 4   8   7   9					
Business Addres	ss (Street Number/N	ame)	M	unicipality	Comments:				***************************************
Province	SCHEEL Bodg	Business E mail As		BRAESIDE					
ONT	Postal Code	Business E-mail Ad	uuress		Well owner's Date	Package Deliver	ed Min	istry Use	e Only
Bus.Telephone N		ame of Well Technician	(Last Name	, First Name)	information package	n 1 1 2 1 n	Audit No.	<b>z</b> ⁄29	2769
6/562 Well Technician's	ISISO 4 8	e of Techniquan and/or C	ontractor	ata Suhmittad	delivered	Work Completed		JAN Ŏ	7 2019
T 511		woy Jav	On actor D	ate Submitted (101/4 1910 M   \$101	No Q	118/42	P Received		
0506E (2014/11)				Ministry's Copy	F-4.	3 4 4 1 1 m 1 m 1 m		n's Printer fo	or Ontario, 2014

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record and Climate Change Regulation 903 Ontario Water Resources Act A252425 rements recorded in: 🔲 Metric 💭 Imperial Page Well Owner's Information Last Name / Organization First Name E-mail Address ☐ Well Constructed HOMES TOMAR by Well Owner Mailing Address (Street Number/Name Municipality Province Postal Code 54BERT G. ARGUE STITISVILLE Kasaha ONT Well Location Address of Well Location (Street Number/Name) 190 RIDG-EMONT County/District/Municipality SECK WITH Postal Code ASHTON LANARK Ontario NAD 8 3 LB 415 A58 500 S Saling RAD Saling R Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material General Description Brown CLAY LOAM LIMESTONE GREY LAYERS OF GREEN SHALF Annular Space Results of Well Yield Testing Type of Sealant Used After test of well yield, water was Depth Set at (m/ft) From To Volume Placed Draw Down Recovery (Material and Type) Time Water Level Time Water Level (min) (m/ft) (min) (m/ft) ☐ Clear and sand free Other, specific LEARING R96 60 RENTONITE If pumping discontinued, give reason: 9.80 20.70 1 Pump intake set at (m/ft) 20.50 23.45 110 23.65 Pumping rate (Vmin / GPM) Method of Construction Well Use 12 Cable Tool ☐ Diamond 4 23,90 Public Commercial ■ Not used Domestic on of pumping Rotary (Conventional) \_\_\_ Jetting Municipal ☐ Dewatering hrs + O min 24.0 Rotary (Reverse) □ Driving Livestock ☐ Test Hole ☐ Monitoring Boring Digging ☐ Irrigation Cooling & Air Conditioning Final water level end of pumping (m/ft) Air percussion
Other, specify 24,30 10 2 4 65 If flowing give rate (Vmin / GPM) Industrial Other, specify 15 24:40 Construction Record - Casing Status of Well 20 24.45 Wall Thicknes (cm/in) Inside Open Hole OR Material Depth (m/ft) Water Supply Recommended pump depth (m/ft) Diameter (cm/in) Replacement Well 110 24.50 Test Hole nded pump rate 188 Recharge Well (I/min / GPM) 24:55 STEEL /a Dewatering Well 24.60 Observation and/or Well production (Vmin / GPM) Monitoring Hole 24.65 Alteration (Construction) 24.65 60 Yes No Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Water Quality Please provide a map below following instructions on the back Depth (m/ft) Material (Plastic, Galvanized, Steel Diamete (cm/in) Abandoned, other, From specify Other, specify X Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) RIDSEMONT 84 (m/ft) □Gas □ Other, specify 68 Water found at Depth Kind of Water: Fresh Juntested 60. V20 / 05 (m/ft) □ Gas □ Other, specify Water found at Depth Kind of Water: Fresh Untested

Water found at Depth (m/ft) Gas Other, specify

Well Contractor and Well Technician Information

Business Name of Well Contractor

\$\int P\contract \text{Well Contractor}\$

\text{WELL DRILLING HESTORY Municipality}

Business Address (Street Number/Name)

\$\int S\circ \text{DELL DR.}

\text{Province}

\text{Postal Code}

\$\int \text{Postal Code}

\text{Business E-mail Address}

Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

Vell Technician's Licence No. Signature of Technician and/or Contractor Date Submittee

Well owner's information package delivered

A Date Package Delivered

A D I S I A D I D G
Date Work Completed

No

Date Work Completed

Ministry Use Only
Audit No. Z292768

JAN 0 7 2019

Ministry of the Environment and Climate Change

Well Tag No. (Place Sticker and/or Print Below) A 252405

well Record
Regulation 903 Ontario Water Resources Act
Page of

Measurements r		etric A Imperial	0150/4010/000000000000000000000000000000				Page		or
Well Owner's First Name		ast Name / Organizat	ion		E-mail Address		- Ir	☐ Well C	Constructed
		TOMAR	CUSTO			Postal Code	7-1		ell Owner
Mailing Address ( <i>ち</i> ひん	Street Number/Nam	ROUE DI		unicipality STITTSVILLE		(1215121	Telephone	No. (inc. a	area code)
Well Location	<del>/~1~1~0~/</del>				1	<u> </u>			
Address of Well L	ocation (Street Num R 106 FM (	ber/Name) ONT DR		BECKW		ot 18	OHACE	2	
County/District/M	unicipality	0,01 0,0	c	ity/Town/Village ASHTO	To a !		Province	Postal	Code
UTM Coordinates	WARK	Northing		unicipal Plan and Sublot	Number		Ontario Other		
NAD   8   3	10011116	461 5001	3808	arriorpa. Fizer arra desire.					
PMH 1985 CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO	200000000000000000000000000000000000000	50000000000000000000000000000000000000	TOROGO ERROR - PORTOGO ERROR -	rd (see instructions on the er Materials		Description		Dept	th ( <i>m/ft</i> )
General Colour	Most Comm		LAYE			STON	~	From	200
OKET	Livie	STONE	C11.16	K2 01 120	The work	31010			100
									-
				TO A STATE OF THE	DILIPM				
			2/2		*****				
				, , , , , , , , , , , , , , , , , , ,					
									:
		Annular Space Type of Sealant Use	_	Volume Placed 3	After test of well yield, wa	man or hand on the control of the victory	Il Yield Testing Draw Down		ecovery
Depth Set at (	То	(Material and Type)		(m³/ft²) yo	☐ Clear and sand free	ė <u> </u>	Time Water Lev		Water Level
0 6	O BER	TONITE	GROUT	e 768	Other, specify		Static 28		(1117)
						_	1 30,10		28.40
			*****		Pump intake set at (m/ft)		2 30.2		18,15
					Pumping rate (Vmin / GPI	va	3 300 4		28.25
With the control of t	of Construction	l Public	Well Us ☐ Commer		Furniping rate (Mility GF)	<del>"</del>	4 30,7	J-, 1	28,23
Cable Tool Rotary (Conve		☑ Domestic	☐ Municipa	al Dewatering	Duration of pumping  hrs +  mir	1	5 30,7	5 5 5	28,23
☐ Rotary (Revers	se)	Livestock Irrigation	☐ Test Hole ☐ Cooling	e	Final water level end of p	oumping (m/fi)	10 30,7		28,20
Air percussion Other, specify		☐ Industrial ☐ Other, special	īv		If flowing give rate (Vmin)		15 30,8		28,20
	Construction R			Status of Well	in nowing give rate (virini)	GPWI	20 30,87	$\rightarrow$	1818
Diameter (Ga	oen Hole OR Material alvanized, Fibreglass,	Thickness	epth ( <i>m/ft</i> )	Water Supply Replacement Weil	Recommended pump de	epth (m/ft)	25 30,8		28:15
1	ncrete, Plastic, Steel)	(cm/in) From	74	Test Hole Recharge Well	Recommended pump ra	ite	30 <b>30</b> · 8		18.15
64	DIEEL	-188 OT	60_	Dewatering Well	(Vmin / GPM)		40 30,9		18.15
				Observation and/or Monitoring Hole	Well production (I/min / G	PM)	50 30.9	O 50	12.15
				Alteration (Construction)	Disinfected?	-	60 30.90	) 60	28.65
Termina construito de	^			Abandoned, Insufficient Supply	A fes   No	Man of W	ell Location		20110
Outside	Construction R  Material		epth ( <i>m/fit</i> )	Abandoned, Poor Water Quality	Please provide a map			the back	K-
Diameter (Pla	stic, Galvanized, Steel)	Slot No. From	То	Abandoned, other, specify	(1)				1/1
		, , , , , , , , , , , , , , , , , , ,		Other, specify		-			7/0
					Q		X	ļ	i
Water found at I	Water De	tails r: □Fresh 🔀 Untes	A CONTRACTOR OF THE PROPERTY O	th (m/ft) Diameter	RIBGEMONI				l
7 X (m/ft)	Gas Other, spe	ecify	From	To (cm/in)	<u> </u>				I
450 //	Depth Kind of Wate ☐Gas ☐ Other, spe	r: ∏Fresh <b>⊉</b> Untes e <i>cifv</i>	ted 60	200 68	8				l
		r: Fresh Untes	ted						Į.
(m/ft) [	Gas Other, spe								
Business Name	of Well Contractor	or and Well Techni	We	ell Contractor's Licence No.	\( \overline{\pi} \)				
- 11/1/1/0	ERS WELL ss (Street Number/N	DRILLING	- LID	9 8 7 9 Inicipality	Comments:		<b></b>		<del></del> :
1680 3	SCHEEL	DR	1	BRAESINE					
Province	Postal Code	Business E-mail	Address		Well owner's Date Pa	ckage Deliver	ed Min	iistry Us	e Only
Bus.Telephone N		ame of Well Technicia	an (Last Name,	First Name)	information package	1904			2766
Well Technician's	Island No Signature	SAUNOE. e of Technidan and/o			A Yes	ork Completed		MAY 0	
15		My Daine		0190565	□ No 201/	1904	65 Received		
0506E (2014/11)		0		Ministry's Copy			© Quee	a's Printer f	for Ontario, 2014

Ministry of the Environment, Well Tag No. (Place Sticker and/or Print Below) Well Record Conservation and Parks Regulation 903 Ontario Water Resources Act A276761 Measurements recorded in: 

Metric Mimperial Page Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed First Name TOMAR CUSTOM HOMES by Well Owner Municipality Telephone No. (inc. area code) Mailing Address (Street Number/Name) K175211A G. ARGUE DR STITISVILLE ONT 54 BERT Well Location Address of Well Location (Street Number/Name) 10 335 K County/District/Municip RIGEMONT Postal Code PHAS Province LANARK Ontario Municipal Plan and Subjot Number Other UTM Coordinates Zone , Easting NAD | 8 | 3 | 1 | 8 | 4 | 7 5 | 7 0 0 | 5 | 0 | 3 | 4 | 5 | 7 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Other Materials General Description Most Common Material From BROWN SANDY STONES FILL 0 CLAY HUMUS BROWN 8 CLAY BROWN LIMESTONE LAYERS OF GREY SANDSTONE SREY LAYERS OF GREEN Y REO SHAVE Results of Well Yield Testing Annular Space After test of well yield, water was: Draw Down Depth Set at (m/ft)
From To Type of Sealant Used (Material and Type) Volume Placed 3 Water Level Clear and sand free ) (min) Other, specify CLEARIN (m/ft) (min) (m/ft) 60 BENTONITE GROUT 34,30 If pumping discontinued, give reason 1 39.07 1 35.16 Pump intake set at (m/fi) 2 39,23 2 34,55 40.08 Pumping rate (Vmin / GPM) Well Use Method of Construction 10 4 30 4 40.58 ☐ Public ☐ Commercial ☐ Not used: Cable Tool ☐ Diamond Duration of pumping Jetting Domestic ☐ Municipal □ Dewatering Rotary (Conventional) 5 34-30 / hrs + O min 5 40, 85T Livestock Rotary (Reverse) ☐ Driving ☐ Test Hole ☐ Monitoring Cooling & Air Conditioning Final water level end of pumping (m/ft) Boring Digging Irrigation 10 41.43 10 34.30 42.10 Air percussion Industrial 15 41.62 15 34.30 Other, specify Other, spe If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 4/63 20 3430 Inside Diameter (cm/ln) Depth (m/ft) Water Supply Thickness (cm/in) Replacement Well (Galvanized, Fibreglass, Concrete, Plastic, Steel) 25 41.78 25 34.30 From To Test Hole
Recharge Well Recommended pump rate (I/min / GPM) 0 41.80 30 34.30 4 STEEL <sub>e</sub> 185 60 ☐ Dewatering Well 40 41.92 40 34.30 124 60 Observation and/or Monitoring Hole OPEN HOLE Well production (Vmin / GPM) 50 42.0 50 10 ☐ Alteration Disinfected? (Construction) 42.19 60 Yes 🗌 No Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Depth (m/ft) Material Diameter Slot No. Abandoned, other, (Plastic, Galvanized, Steel) From specify SINCE MON Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Wintested Depth (m/ft) From 7 (m/ft) Gas Other, specify 9-3 60 pund at Depth Kind of Water: Fresh AtIntested 0 60 6 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor DOUGLAS SIDE RD DRILLING 4 8 SAUNDERS WELL Business Address (Street Number/Name) Comments: Municipality BRAES/DE SCHEEL Postal Code Business E-mail Address HOA160 Ministry Use Only Well owner's information Date Package Delivered Audit No. Z318977 Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

SAUJUDERS TRU

Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted 2011911204 package delivered Date Work Completed X Yes

☐ No

Ministry's Copy

RODEC 2 0 2019



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

A276752

Well Record

Regulation 903 Ontario Water Resources Act

Page\_\_\_

Address of Well I	Location (Street Num	ber/Name)	00	Township RECKIA	I TH	Lot	Conc	ession	
County/District/N	RIGEN Junicipality	10101	DR.	BECKW City/Town/Village	-001		Province	Post	al Code
UTM Coordinates	WARK_	, North	oing.	Municipal Plan and Sub	lot Number		Ontario Other		
NAD   8   3		123 50	10 B 16 189		iot Namber		Othor		
Overburden ar	Most Comm		nent Sealing R	ecord (see instructions on a Other Materials	The state of the s	eral Description			pth (m/ft)
BROW/				TIAIE CIAI	001	Cidi Description	***************************************	From	43
GREY		TONE	/ ACE	PS OF	<b>/</b>			44	99
0/4_	7///	J. O. O. E.	RFD	+ GREEN ST	ME				
						<del></del>			
	255050/5519-200-10-10-10-10-10-10-10-10-10-10-10-10-1	Annular S	pace			Results of W	ell Yield Tes	sting	
Depth Set at (	m/ft) To	Type of Sealar	nt Used	Volume Placed	After test of well yield	l, water was:	Draw D		Recovery Water Level
	SO BEN				Other, specific	LEARING	(min) (i	m/ft) (min	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	If pumping discontinu	ued, give reason:	Level 55	1,25 5.70	7115
					Pump intake set at /	m/fī)	1 5	) 0 1 (O 2	34.50
					89	. ′		OZ 3	34.30
	of Construction	809 208 <u>(22,52</u>	22.30.10.20.20.20.20.20.20.20.20.20.20.20.20.20	l Use	Pumping rate (l/min/	GPM)	1		2/12
Cable Tool Rotary (Conve	☐ Diamond entional) ☐ Jetting	i Public	c 🔲 Cor estic 🔲 Mui	mmercial Not used nicipal Dewaterin	Duration of pumping			.05 5	34.2
☐ Rotary (Revers	se)	Livest		t Hole	Final water level end	min of pumping (m/ft)		ر OZ 10	24 25
Air percussion Other, specify		☐ Indus	trial		360	10	10 120	10 5 10 5 10 5 15	
	Construction R			Status of Well	If flowing give rate (₺	min / GPM)	20 36	~05 20	2// 2/
	oen Hole OR Material alvanized, Fibreglass,	Wall Thickness	Depth (m/ft)	Water Supply ☐ Replacement Well	Recommended pur	p depth (m/fi)	25 7/6	(0) 25	- 12 to com
(cm/in) co	oncrete, Plastic, Steel)	(cm/īn)	Frem To	Test Hole	Recommended pur	ıp rate	30 3/	Sel D 30	
04	SIEEL	0188	0 60	Dewatering Well	(I/min / GPM)	ζ	40 37	(elO 40	
6 0	PEN HOUE	- 0	60 99	Monitoring Hole	Well production (Vmi	n/GPM)	50 56	10 50	
				Alteration (Construction)	Disinfected?  XYes No		60 36	1/0 60	THE PE
	Construction R	ecord - Scree	en .	☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor	A COS CONTRACTOR	Map of W	ell Location	n	J
Outside Diameter (Diameter	Material	Slot No.	Depth (m/ft)	Water Quality	Please provide a m	ap below follow	ng instructio	ns on the ba	ick.
(cm/in) (Pla	stic, Galvanized, Steel)		From To	specify	1	×	-   8		
				Other, specify			15		
Material and a second s		4_44_	7.V828233300	Hole Diameter			RIDGEMON	7	
Water found at I	Water De Depth Kind of Wate			Depth (m/ft) Diameter	≥r		1.7.1	ı	
X4 Z(m/ft)	Gas Other, spe Depth Kind of Wate		Intested C	1 1 0 1 0 2				,	
(m/ft) [	Gas Other, spe	ecify	61				a a	-	
	Depth Kind of Wate		Untested				de de la company		
(11/15)			echnician Info	rmation		Dou	GLAS	SING	<u></u> RO-
	of Well Contractor	BIL AF	OT) ONLING	Well Contractor's Licence N	ło.	<i>500</i>	د اس		حمسه
Business Addre	ss (Street Number/N	ame)	Carrio Co	Municipality RRAESIDE	. Comments:				· Augustonovi v
Province	SCHEEL Postal Code	F) R Business E	E-mail Address	BRITESIER					
ONT	KOA110	<i>(D</i> )			Well owner's Date	Package Delive	ed	Ministry L	
	No. (inc. area code) N	ame of Well Te	chnician (Last Na ERS TR	ame, First Name)	package delivered	11912	b loll Aug	<sup>it No.</sup> <b>Z</b> 3 ]	L899 <b>1</b>
Well Technician's	Licence No. Signature	e of Techniquan	and/or Contracto	or Date Submitted	Yes Date	VVORK Complete	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JAN 27	2020
0506E (2018/12)	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	oy user		Ministry's Co		DIN IN IN		eived Queen's Printe	er for Ontario, 201

Ministry's Copy

Or Measureme	ntario	Conserva	of the Environmation and Parks		ag No. (Place Sticker an A 2 76 73)		Regulation	903 Ontario W		decord ources Act
<b>Well Own</b> First Name		rmation	ast Name / Organ	ization		E-mail Address	3		☐ Well 0	Constructed
Mailino Addr	ress (Street	t Number/Name			OM HOME Municipality	> Province	Postal Code	Telephon		area code)
-54	/ BE	RT G.	"ARGUE	DR.	STITTSYILL		K752	烟山		
Well Loca		on (Street Num	her/Name)		Township	1	Lot 4-7	Concess	ion	
Address of V		RIOGET		OR _	RECKWIT	TH	DIAME	2		
County/Dist		ality VARK			City/Town/Village	TVU	77770	Province Ontario	Postal	Code
UTM Coordi	inates Zone	e Easting	Northin		Municipal Plan and Sublo	t Number		Other		
NAD			03500			had of this form		Appendis Menyerran	amat 8 5 7 7 0 0 7 0 0	antile (Marketter
General Co	entransmething date and a series	Most Comm	3.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2		<b>cord</b> (see instructions on the Other Materials		eral Description		Dep From	th (m/ft)
ORE	: Y .	BROKE	N ROCK		AMMA.	7	FILL		O	ì
	wn			57	ONES				/	3
GRE			STONE		RS OF GRE	Y SAND	STUNE	•	.3_	180
	•									
Depth Se From	То		Annular Spa Type of Sealant (Material and Ty	Used be)	Volume Placed S	After test of well yield ☐ Clear and sand ☐ Other, specifi	, water was: free	ell Yield Testin Draw Dowr Time Water Le	vel Time	Recovery Water Level (m/tl)
O_	60	BEN	TONITE	GROU	7 0896	If pumping discontinu		Static Level 44		()
			11.170				-	1 4/9.0		68,50
••••						Pump intake set at (r	n/ft)	2,50,		60.40
				···		[ 1.70	0010	<b>—</b>	<b>3</b> 3	55.75
	3 1 7 1 1 1 1 1 1 1	nstruction		Well		Pumping rate (I/min /	GPM)	1	70 4	5770
Cable Too		☐ Diamond ) ☐ Jetting	Public Domesti	Comi	=	Duration of pumping		5542		53.10
Rotary (F	Reverse)	☐ Driving ☐ Digging	Livestoc		Hole	hrs + O Final water level end	min of pumping (m/ft)	T		01110
Air percu		L Digging	☐ Industria	f	ng ar ar conditioning	II ~7 a	، 75	10 00%	35 10	4550
☐ Other, sp	-	netruction P	Other, s	pecify	Status of Well	If flowing give rate (l/r	nin / GPM)		<b>75</b> 15	45:05
Inside	Open Hol	le OR Material	Wall	Depth (m/ft)	Water Supply	Recommended pum	p depth (m/ft)	20 66.		11192
Diameter (cm/in)	(Galvanize Concrete,	ed, Fibreglass, , Plastic, Steel)	Thickness (cm/in) F	PO To	Replacement Well Test Hole	170		25 61.	<b>60</b> 25	44.70
67	57	TEEL	0188 C	F 60	Recharge Well Dewatering Well	Recommended pum (I/min / GPM)	) late	30 68	YD 30	94.70
6	085	N HOLE	6	0 180	☐ Observation and/or	Well production (Vmir	r/GPM)	40 69.7	<b>5</b> 40	44.70
		- //		- 10-	☐ Alteration	Disinfected?		50 70	<b>S</b> 50	44.90
					(Construction)  Abandoned,	Yes No		60 70	<b>75</b> 60	44.90
	Co	nstruction R	ecord - Screen	// Se	Insufficient Supply  Abandoned, Poor	EST 2002		ell Location		Market year
Outside Diameter		Material alvanized, Steel)	Slot No.	Depth ( <i>m/ft</i> )	Water Quality  Abandoned, other,	Please provide a m	ap below follow	ing instructions	on the bac	*. <b>1</b>
(cm/in)	(			rom To	specify		70			/ N
					Other, specify		8	ا اس	I .	
						4	5 _	<u>×</u> _		
Water foun	dyat Depth	Water Det Kind of Water	taus ∵⊟Fresh 🗷 🗘	ntested C	Hole Diameter Depth (m/ft) Diameter	8	DEMON!			
- to	n/n) ☐ Gas		HYDRO A		42 5		5			
		Kind of Water	n: ∏Fresh ∏U		00 74		6			
			r: Fresh U	ntested 60	180 6		72			
(n		Other, spe				4				
Business N		Vell Contractor	or and Well Tec	nnician Inform	nation Well Contractor's Licence No.	1				
SAU	NOE	25 WE	LL DRILL	100	4 8 7 9			OUGLAS	Sil	RRD_
		reet Number/Na HEEL	ame) OR		Municipality BRAESIDE	Comments:				
Province	F	Postal Code	Business E-r	nail Address		MAD	Dealer - D. "	nd I gosttor 14	nicim II-	o Orth
Bus.Telepho		KOD 16 c. area code) Na	ame of Well Tech	nician (Last Nar	me, First Name)	Well owner's Date information package	Package Deliver	red Mi	nistry Us ° ZQ 1	8976
161150	S121315	36 Yeb 3	SAUNDA	PS "	TROY	delivered	Work Complete	1 April 1	 T	00.0
Well Technic	cian's Licenc	managi All	of Technician ar	d/or Contractor	Date Submitted	No Date	19/1/	Z/O Receive	N 272	UZU
0506E (2018/	/12)		//		Ministry's Copy		er ur produce	<u> </u>		for Ontario, 2018

Well Record Ministry of the Environment, Well Tag No. (Place Sticker and/or Print Below) Conservation and Parks Regulation 903 Ontario Water Resources Act 4276753 Measurements recorded in: Metric Imperial Well Owner's Information ☐ Well Constructed Last Name / Organization F-mail Address First Name CUSTOM by Well Owner HOME TOMAR Telephone No. (inc. area code) Municipality 54 BERT G. ARGUE KIJISƏHD ONTI STITISVILLE Well Location Address of Well Location (Street Number/Name)
SIO RIBEMONT OR S BECKWITH PHASE City/Town/Village Postal Code County/District/Municipality LANARK Ontario UTM Coordinates Zone, Easting NAD | 8 | 3 | 70 | 41559 | 50 0 | 3 | 4 | 70 Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) From To General Description Most Common Material FILL BROWN SHALE 4 CLAY YELLOW 160 GREY LIMESTONE Results of Well Yield Testing Annular Space Draw Down Recovery (m³/fc) Y After test of well yield, water was Depth Set at (m/ft) Type of Sealant Used (Material and Type) Volume Placed Clear and sand free Time Water Level Time Water Level (min) (m/ft) (min) (m/ft) (min) Other, specify FARING 60 BENTONITE GOOT Static Static 29,05 If pumping discontinued, give reason: 1 4/7.35 1 3250 2 35,04 2 4/3,75 Pump intake set at (m/ft) 3 B8,30 3 4/0,63 Pumping rate (Vmin / GPM)

6 5

Duration of pumping Method of Construction Well Use 4.39,27 4 ☐ Not used □ Diamond ☐ Commercial Rotary (Conventional) Jetting **Domestic** ☐ Municipal Dewatering 5 40.16 5 35,58 \_\_\_hrs+\_\_\_\_min Livestock Test Hole Rotary (Reverse) Driving Final water level end of pumping (m/ft)

5/ 4/6

If flowing give rate (l/min / GPM) Imigation Cooling & Air Conditioning ☐ Boring □ Digging 10 48,47 10 29.54 Industrial Air percussion 15 45,70 15 29.05 Other, specify Other, specify Status of Well Construction Record - Casing 20 4/7,90 20 29,05 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness (cm/in) Recommended pump depth (m/ft) Inside Diamete Depth (m/ft) Water Supply 48,40 25 29.05 Replacement Well 750 Recommended pump rate Test Hole 49.03 30 29.05 ./88° 60 Recharge Well STEEL Dewatering Well 40 50015 40 29.05 60 160 Observation and/or OPEN HOLE Well production (Vmin / GPM) Monitoring Hole 50 50:90 50 29:05 Alteration (Construction) Disinfected? 60 5/.46 60 Yes 🗌 No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Water Quality Outside Material Depth (m/ft) Slot No. Diameter Abandoned, other, (Plastic, Galvanized, Steel) (cm/in) specify Other, specify Water Details Hole Diameter Depth (*m/ft)* Water found at Depth Kind of Water: Fresh Duntested Diameter From (cm/in) (m/ft) ☐ Gas ☐ Other, specify

Water found at Depth Kind of Water: ☐ Fresh ☐ Ontested 94 109 (m/ft) ☐ Gas ☐ Other, specify 160 Water found at Depth Kind of Water: Fresh Untested / 4X(m/ft) □ Gas □ Other, specify \_ Well Contractor and Well Technician Information SAUNDERS WELL DRILLING U.S. 7. 9

Business Address (Street Number/Name)

Municipality

Brovince

Province

Province

Province

Province

Province

Province

Province

Province

Province DOUGLAS SDERD Comments: Postal Code KOAIGO Business E-mail Address Ministry Use Only Well owner's Date Package Delivered information Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered Signature of Technician and/or Contractor Date Submitted Yes alan 2 8 2020 20191220 ☐ No

Ministry's Copy

@ Queen's Printer for Ontario, 2018

#### Well ID

Well ID Number: 7356155 Well Audit Number: 2334321 Well Tag Number: A276774

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

#### **Well Location**

Address of Well Location	277 Ridgemont Dr
Township	BECKWITH TOWNSHIP
Lot	
Concession	
County/District/Municipality	LANARK
City/Town/Village	ASHTON
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18
	Easting: 415585.00
	Northing: 5003664.00
Municipal Plan and Sublot Number	
Other	

#### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	To To
GREY	LMSN	SNDS	SHLE	0 ft	120 ft

## Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	To	(Material and Type)	Placed
0 ft	60.5 ft	BENTONITE GROUT	

#### Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Domestic

#### Status of Well

Water Supply

#### **Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 Inch	STEEL	583 ft	60.5 ft
6.125 Inch	OPEN HOLE	60.5 ft	120 ft

#### **Construction Record - Screen**

Diameter	Material	Depth From	Depth
27.27			

# Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4879

## Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4879

#### **Results of Well Yield Testing**

After test of well yield, water was	OTHER
If pumping discontinued, give reason	
Pump intake set at	110 ft
Pumping Rate	14 GPM
Duration of Pumping	1 h:0 m
Final water level	31.15 ft
If flowing give rate	
Recommended pump depth	10 ft
Recommended pump rate	14 GPM
Well Production	
Disinfected?	Y

#### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	30.35 ft		
1	31 ft	1	30.5 ft
2	31 ft	2	30.45 ft
3	31.05 ft	3	30.43 ft
4	31.03 ft	4	30.42 ft
5	31.05 ft	5	30.41 ft
10	31.08 ft	10	30.4 ft
15	31.1 ft	15	30.38 ft
20	31.1 ft	20	30.37 ft
25	31.1 ft	25	30.37 ft
30	31.12 ft	30	30.36 ft
40	31.12 ft	40	30.35 ft
45		45	
50	31.13 ft	50	30.35 ft
60	31.15 ft	60	30.35 ft

#### **Water Details**

Water Found at Depth	Kind
79 ft	Untested
93 ft	Untested

#### **Hole Diameter**

Depth	Depth	Diameter
From	То	
0 ft	60.5 ft	9.75 Inch
60.5 ft	120 ft	6.125 Inch

Audit Number: Z334321

Date Well Completed: March 12, 2020

Date Well Record Received by MOE: March 31, 2020

Ministry of the Environment,
Conservation and Parks

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

A296816

**Well Record** 

Regulation 903 Ontario Water Resources Act

weasurement	is record	zed III. 🔲	meanc 1A	Impenat		· •				Pag	je	of
Well Owner	r's Info	rmation						A September 1	S. T. A.		7. 4-2-104	42.60
First Name			Last Name /					ail Address			☐ Well (	Constructed
				<u>uar</u>	CUST						by W	ell Owner
Mailing Addres	ss (Stree				~ ~	Municipality	Provi	·	al Code	Telephon	e No. (ínc.	area code)
	3EK	1 O~/	42001		אַנ	STITISVILL	EC	DUT				
Nell Location	499404Q135.486								7.4			
\ddress of We		OGEM		$\mathcal{C}^{\circ}$	>	Fownship BECK	THEF	7.+ Lot	16	Concess	ion	
County/District			0/01			City/Town/Village	<del></del>		• -	<b>D</b>	- In	<del></del>
/	Ann	45K					1 J			Province Ontario	Postal	Code
JTM Coordina	• •		N	orthing	——————————————————————————————————————	Municipal Plan and Suble	nt Number	<del> </del>		Other		
NAD   8	1 6		5365			The state of the s				Outo		
)verburden	and Be	drock Mater	ials/Abando	onment :	Sealing Reco	ord (see instructions on th	e back of th	is form)	S. 3245 (74)			
General Color			mon Material			ner Materials	pomicis inspira suggestione	General Des	cription	Austria A. Raharana a sameta	_ Dep	th ( <i>m/ft</i> )
GOEV	,	GRAI	ie i	$\neg \uparrow$					•		From	10
ONC!					(1			FILL			0	1
BROW	N_	LOAN	<u> </u>		CL149"	Y-SHALE						<u>ک</u>
GREY	<u> </u>	IMES	TONE.		AYER	SOFGREY	SANE	STONE			3	91
GREY	2	TANAS	TONE		1 AVE	s of re	5				91	160
ر د د د بر		<u> ۲۰۱۲ کی ۱۲۰ کی د</u>	<u>,, 0, 0 0</u>								77	700
	-				+ GREE	N SHALE		<del></del>	_			-
	$\vdash$		-			·						<del>                                     </del>
What a serious point with a serious	CONTRACTOR OF THE PARTY OF THE			L			<u> </u>					
S		Carrier S	Annular				**************************************	ed a describitor and a market and the first transfer that and	Carried Andrews	ll Yield Testin		12 x 66 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Depth Set at From	t ( <i>m/ft)</i> To		Type of Sea (Material ar		ū	Volume Placed		of well yield, water war and sand free	as:	Draw Down Time Water Le		ecovery Water Level
0 4	50	BENT		<del>}</del>	SPIN IT	CUID		er, specify (EH	SNO	(min) (m/fi)	(min)	(m/fi)
	, 0	04/1/	بالادا و			0090	If pumpin	g discontinued, give r	reason:	Static Level 36 a	2	
												53,10
						}	il			14/2,8	-	13110
							Pump inta	ake set at (m/ft)		2 45.7	10 2 k	47.10
							Bumping	750 rate (Vmin / GPM)		3 48.5	<b>6</b> О 3	43-55
Access to the second second	l of Cor	nstruction (	3003714012200000		Well Us	The same same account to the same of the same	] Fulliping	(III GPW)				<u> </u>
Cable Tool Rotary (Conv	(entional)	☐ Diamond		blic mestic	Comme	_	Duration	of pumping		4 50,6	5 4	39,80
Rotary (Reve		Driving		estock	☐ Test Hol			rs + O min		5 52 ,4	10 5	37.80
Boring		Digging	☐ trri	_	Cooling	& Air Conditioning	Final water	er level end of pumpir	ng (m/ft)	10 58,0	10	36.23
Air percussio Other, specify			☐ Ind	lustrial ner, <i>specif</i> j	,			62.80			-	
AND RELATED TO A STATE OF THE S						In and	If flowing	give rate (l/min / GPM,	)	15 59,6	15	36.20
Inside 0		struction R	ecord - Cas		pth ( <i>m/fi</i> )	Status of Well  Water Supply		·		20 60.	<b>7D</b> 20	36.20
Diameter (0	Galvanize	d, Fibreglass.	Thickness			Replacement Well	Recomme	ended pump depth (n	n/ft)	25 61-3		36,20
71	concrete,	Plastic, Steel)	(cm/in)	From	7	Test Hole	Recommo	ended pump rate				
54	STE	EL	o/88	D.	60	Recharge Well	(l/min / Gi	<sup>PM)</sup> / 7		30 61.6	<b>D</b> 30	36.20
50 C	DE N	HOLE		60	160	☐ Dewatering Well ☐ Observation and/or	)	12		40 62.3	D 40 3	36,20
20		77000		-	100	Monitoring Hole	vveii prodi	uction (I/min / GP <u>M)</u>	li	50 (4 5	5 50	2/ 50
			_			Alteration (Construction)	Disinfected			30 GX 10	30 S	50.20
						Abandoned,	Yes	☐ No		60 82,5	FY 60 k	36.20
	Cor	struction R	ecord - Scr	ееп		Insufficient Supply Abandoned, Poor	Salary Salary	Maj	of We	Il Location		- Constant
Outside Diameter (D)	Ма	terial	01-431-	De	pth (m/ft)	Water Quality	Please pi	rovide a map below	followin	g instructions of	the back	
(cm/in) (Pl	astic, Gal	vanized, Steel)	Slot No.	From	To	Abandoned, other, specify	ι.	1.				<b>1</b>
			_			_ cpouny	il . II		_			/N/
<del></del>						☐ Other, specify	Q2		×	ſ		•
						<u> </u>	4		^	, i		
			ails .			ole Diameter	1 1			1		
Vater found at				Untest	ed Dept From	h ( <i>m/ft</i> ) Diameter   To ( <i>cm/in</i> )	🗠					
() (z(m/ft)	_	Other, spe	-	<b></b>		—————	3					
Vater found at				Untest		60 93	18			- — —	_	
55 (m/ft) vater found at				Unteste	60	160 05						
		Other, spe		Onteste	-u		$\parallel arphi \parallel$					
70.000				Tableto	-   ian Informati		SIDGEMON!					
usiness Name	of Well	Contractor			1A/m	Il Contractor's Licence No.	~					
SAUNE	eres	WELL	- DRI	UNO	- 470	4 879	יו ו					
usiness Addre	ess (Stre	et Number/Na	ime)			nicipality	Comment	 s:		<del></del>		
1680 3	SOH	EEL L	)R=			PRAESIDE	1					
rovince	Po	stal Code	Business	E-mail A			<u></u>					
ONI		OALO					Well owne		Delivered	Mio	istry Use	Constitution of the Consti
us. Telephone I		area code) Na	me of Well T	echnician	(Last Name,	- ' I	package	20201	0 Z 0	Audit No.	<b>z</b> 334	1345
/ell Technician's			SAUNA				delivered	Date Work Con				10 1 4 2 9 6 7 9 1 3 4 6 7 8 6 8 8
7 5		7 Signature	- I AM			0200808191	□ No	20200	كالحار	)/ <sub>0</sub>   n	JL 302	n <b>20</b>
506E (2018/12)				<b>₹</b>				A D WALL	an   #15   Va	ــــــــــــــــــــــــــــــــــــــ		Ontario, 2018
/						Ministry's Copy					. J i instell for	Ontano, 2016

Ministry of the Environment, Well Tag No. (Place Sticker and/or Print Below) Well Record Conservation and Parks A296814 Regulation 903 Ontario Water Resources Act leasurements recorded în: 🔲 Metric 🔀 mperial Well Owner's Information ast Name / Organization E-mail Address ☐ Well Constructed TOMAR CUSTOM HOMES by Well Owner Mailing Address (Street Number/Name Municipality rovince ONT Telephone No. (inc. area code) BERTG ARGUR STITTSVILLE Nell Location
Address of Well Location (Street Number/Name)
295 RIOGEMONT BECKWITH la Postal Code LANARK ASHTON Ontario Municipal Plan and Sublot Number Other drock Materials/Abandonment Sealing Record (see instructions on the back of this form) Other Materials General Description Depth (m/ft) From GREY ROCK FILL CLAY BROWN SHALE LIMESTONE GREY SANDSTONE Results of Well Yield Testing Type of Sealant Used (Material and Type) Depth Set at (m/ft)
From | To Volume Placed After test of well yield, water was: Draw Down Clear and sand free Time Water Level Time Water Level Other, specific LEARING 60 BENTONITE GROUT (m/ft) 768 Static If pumping discontinued, give reason: Level 3% 3 1 42.45 1 42.0 ump intake set at (m/ft) 2 43,35 2 40.40 150 3 43.90 3 39.80 Method of Construction umping rate (Vmin / GPM) Well Use 6 4 414.32 4 39.70 Cable Tool □ Diamond ☐ Public ☐ Commercial ☐ Not used Duration of pumping Rotary (Conventional) Jetting Domestic Municipal Dewatering 5 44.90 5 39.67 Rotary (Reverse) Driving ☐ Test Hole hrs + 🔘 min ☐ Monitoring Boring ☐ Digging Irrigation Cooling & Air Conditioning inal water level end of pumping (m/fi) 10 4/5.45 10 39.55 Air percussion ☐ Industrial 95.30 Other, specify Other, specify 15 45.75 15 39.39 flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 45.55 20 3937 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Depth (m/it) Water Supply Recommended pump depth (m/fi) Thickness Replacement Well 25 45.30 25 39.35 /50 (cm/in) (cm/in) From To ☐ Test Hole Recommended pump rate (I/min / GPM) 0188 60 Recharge Well 45,25 30 STEEL Dewatering Well 45.30 40 39.3 OPEN HOLE 60 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 45.30 50 39.3 Alteration (Construction) Disinfected? 45.30 60 Yes 🗌 No 60 Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Diameter Water Quality Please provide a map below following instructions on the back. Depth (m/ft) Material Slot No. (Plastic, Galvanized, Steel Abandoned, other, (cm/in) specify N 92 Other, specify X Water Details Hole Diameter RUCEMONT fater found at Depth Kind of Water: Fresh Intested Depth (m/ft) Diameter (cm/in) 7 (m/ft) Gas Other, specify 93 found at Depth Kind of Water: Fresh dentested 60 (m/ft) Gas Other, specify *16*0 68 found at Depth Kind of Water: Fresh Untested 60 (m/ft) Gas Other, specify Well Contractor and Well Technician Information SAUNDERS WELL DRILLING LPD SCHEEL BRAESIOE Business E-mail Address KO10/160 Well owner's Date Package Delivered Ministry Use Only elephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

SOUNDERS TROP Audit No. **Z**334339 package delivered 20200703

Date Work Completed

2012101012101Z

JUL 3 0 2020

© Queen's Printer for Ontario, 2018

X Yes

No

Date Submitted 2020 05 02

Ministry's Copy

Ministry of the Environment, | Well Tag No. (Place Sticker and/or Print Below) Ontario 📆 Well Record Conservation and Parks Regulation 903 Ontario Water Resources Act AQ96837 Measurements recorded in: 

Metric 

Imperial Well Owner's Information Last Name/Organization ☐ Well Constructed TOMAR CUSTOM by Well Owner Mailing Address (Street Number/Name Municipality Postal Code Telephone No. (inc. area code) 54 BERT G ARGUE OR STITISVILLE 01/11 Well Location Address of Well Location (Street Number/Nam 309 RIDGEMON PIHI SEConcession BECKWITH RIUGEMONT County/District/Municipality Postal Code Province LANARK UTM Coordinates Zone . Facting Ontario  $\perp$ NAD | 8 | 3 / 18 4 15 6 65 500 353/ Overburden and Bedrock Materials/Abandonment Iling Record (see instructions on the back of this form) Most Common Material Other Materials Depth (m/ft) F<u>rom</u> BROWN CLAY SAND 6 6 GREY SHALE <u>180</u> GREY LIMESTONE Results of Well Yield Testing After test of well yield, water was: Type of Sealant Used (Material and Type) Draw Down Recovery Depth Set at (m/ft)
From To Volume Placed (m³/ft²) Yď ☐ Clear and sand free ☐ Other, specify CLEAR W (min) Time Water Level Time Water Level <u>7</u>04 (m/ft) (min) (m/ft) 60 BENTONITE GROUT Static 35, 40 If pumping discontinued, give reason: 1 42.70 1 52.10 Pump intake set at (m/ft) 2 45.70 2 48.10 170 3 43,30 H7,60 Pumping rate (Vmin / GPM) Method of Construction Well Use 48,40 4 40.60 Commercial ☐ Not used Cable Tool Diamond ☐ Public Duration of pumping
\_\_\_\_\_hrs +\_\_\_\_\_min Rotary (Conventional)
Rotary (Reverse) Domestic ☐ Jetting Municipal Dewatering 5 49.60 5 38.15 □ Driving Livestock Test Hole ☐ Monitoring Final water level end of pumping (m/ft)  $57 \cdot 25$ Cooling & Air Conditioning Boring
Air percussion Digging ☐ Impation 10 53,D 10 35,80 ☐ Industrial Other, specify Other, specify 15 35,65 55.0 If flowing give rate (Vmin/GPM) Construction Record - Casing Status of Well [55,90] <sup>20</sup> [35,58 Water Supply
Replacement Well Recommended pump depth (m/ft) Inside Open Hole OR Material Depth (m/ft) Diameter (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) 56,40 25 35,52 То From <u>0</u>+5 ☐ Test Hole Recommended pump rate 56.65 30 35,48 64 a 188 60 Recharge Well (I/min/GPM) STEEL Dewatering Well -56,90 40 35,45 60 Observation and/or OPEN HOLE Well production (I/min/GPM) Monitoring Hole 50 57, D 50 35.45 ☐ Alteration (Construction) 60 57.25 60 35, 44 X Yes ☐ No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Outside Water Quality Material (Plastic, Galvanized, Steel) Diamete Slot No Abandoned, other, (cm/in) From Other, specify RIDGEMONT χ Water Details Hole Diameter Water found at Depth Kind of Water: ☐ Fresh ★Untested ☐ (m/ft) ☐ Gas ☐ Other, specify \_\_\_\_\_ Depth (m/ft) Diamete (cm/in) 0 60 Water found at Depth Kind of Water: Fresh Untested 616 60 Gas □ Other, specify 180 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information.

Business Name of Well Contractor

Well Contractor's Licence No. 8 SAUNDERS WELL DRILLING Comments: Business Address (Street Number/Name) CHEE BRAESIDE KIDAI60 Well owner's information package delivered Date Package Delivered Ministry Use Only Audit No. **Z**349864 Name of Well Technician (Last Name, First Name) 20200950

TROY

Date Submitted

0201030

Ministry's Copy

Date Work Completed

) D Q D D R I S O

X Yes

☐ No

SAUNIDERES

@ Queen's Printer for On

Ministry of the Environment, Well Record Ontario 📆 Well Tag No. (Place Sticker and/or Print Below) Conservation and Parks Regulation 903 Ontario Water Resources Act A309683 Measurements recorded in: 

Metric 

Imperial Well Owner's Information Last Name/Organization First Name TOMAR CUSTOM by Well Owner Postal Code Telephone No. (inc. area code) ONT STITISVILLE <u>54 BERT & ARGUE</u> RIDGEMONT Postal Code Province County/District/Municipality Ontario ANARK Easting | Northing | 4/15/389 | 5003 | 754 NAD | 8 | 3 ecord (see instructions on the back of this form). Depth (m/ft) Other Materials Most Common Material LOAM SHALE BROWN LIMESTONE LAYERS OF GREEN SHALE 4-GREY SANDSTONE Results of Well Yield Testing Depth Set at (m/ft) From To Type of Sealant Used (Material and Type) Volume Placed (503/fts) yd Draw Down Recovery After test of well vield, water was Water Level Time Water Level ☐ Clear and sand free Other, specific LEARING (min) (m/ft) (min) 60 640 BENTONITE GROUT Static f pumping discontinued, give reason: Static 29<u>.35</u> 1 44440 1 35,0 130 Pump intake set at (m/ft) 37.50 2 40.0 38.80 3 36.75 rate (I/min / GPM) Method of Construction Well Use 8 39,70 4 Public ☐ Not used □ Diamond Commercia Duration of pumping Domestic Dewatering Rotary (Conventional) Jetting Municipal | 40.50 5 hrs + D min ☐ Test Hole Livestock ☐ Monitoring Rotary (Reverse) ☐ Driving l water level end of pumping (m/ft) 48,35 Boring Imigation ☐ Cooling & Air Conditioning 43.0 10 30,50 Digging 10 Air percussion Industrial Other, specify Other, specify 45,10 15 29,40 If flowing give rate (I/min/GPM) Status of Well Construction Record - Casing 20 4/6.31 20 29,35 Inside Diameter (cm/in) Open Hole OR Materiai (Galvanized, Fibreglass, Concrete, Plastic, Steel) Water Supply Recommended pump depth (m/ft) Wall Depth (m/ft) Thicknes (cm/in) 46.90 Replacement Well From To 0+22 Test Hole Recommended pump rate 60 o188 Recharge Well 47.10 30 29,35 69 (I/min/GPM) 8 STEEL Dewatering Well 47.75 40 29.35 Well production (I/min/GPM) 140 Observation and/or 60 OPEN HOLE Monitoring Hole 48.10 50 29.35 ☐ Alteration (Construction) Disinfected? 48,35 00 29,35 Yes 🗌 No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the bac Outside Diameter Water Quality Depth (m/ft) Slot No. Abandoned, other, To (cm/in) specify  $\mathcal{Z}$ X Other, specify Water Details RIDGEMONT Water found at Depth Kind of Water: Fresh Tuntested Depth (m/ft) Diameter (cm/in) From 77 (m/ft) ☐ Gas ☐ Other, specify 60 0 found at Depth Kind of Water: Fresh Kuntested Water found of Basic 6% 60 140 ater found at Depth Kind of Water: Fresh Xuntested 20 my Gas □ Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor DRILLING LITO SAUNDERS WELL isiness Address (Street Number/Name)

BRAESIDE 1680 SCHEFL Business E-mail Address ONT. KDALGO Well owner's Date Package Delivered Ministry Use Only Audit No. **Z34**9898 APR 12 2021 20210336 TROY 161418 SAUNDERS Date Work Completed X Yes Signature of Technici 2021/03/31 ☐ No 02104 Ministry's Copy

Comments

Ministry of the Environment, Well Tag No. (Place Sticker and/or Print Below) Ontario 📆 Well Record Conservation and Parks A309684 Regulation 903 Ontario Water Resources Act Well Owner's Information Last Name/Organization
TOMAR CUSTOM Well Constructed by Well Owner First Name

54BERT G. ARGUE DR.	STITTSVILL	E ONTO	Telephone No. (inc. area code)
Address of Well Location (Street Number/Name)	Township BECKWITT	Lot Lot	Concession
County/District/Municipality  LANARK	City/Town/Village ASHTO/	1/	Province Postal Code Ontario
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublo		Other
NAD   8   3		e back of this form)	
General Colour Most Common Material	Other Materials	General Description	Depth (m/ft) From To
BROWN LOAM GREY LIMESTONE	CLAY & SHALE LAYERS OF BLACK L	IMESTRAJE	9± 92
GREY LIMESTONE		4 RED SANDSTO	
		-	
Depth Set at (m/ft) Type of Sealant U			ell Yield Testing  Draw Down Recovery
O 60 BENTONITE	GROUT 640	☐ Clear and sand free☐ Other, specify ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Time Water Level Time Water Level (min) (m/ft) (min) (m/ft)
O 100 BEN MONTE	0,00. 2010	If pumping discontinued, give reason:	Static Level 30-10
		Pump intake set at (m/ft)	1 34.10 1 45.0
		/60	<sup>2</sup> 36.20 <sup>2</sup> 40.40 <sup>3</sup> 37.90 <sup>3</sup> 37.70
Method of Construction  ☐ Cable Tool ☐ Diamond ☐ Public	Welf Use  ☐ Commercial ☐ Not used	Pumping rate (l/min / GPM)	4 39,30 4 35,20
Rotary (Conventional)		Duration of pumping  hrs + O min	5 40,40 5 30.10
☐ Boring ☐ Digging ☐ Irrigation  Air percussion ☐ Industrial	Cooling & Air Conditioning	Final water level end of pumping (m/ft	10 45-50 10 30.10
Other, specify Other, specify Other, specify Other, specify Construction Record - Casing		If flowing give rate (I/min/GPM)	15 4/7 6/0 15 30.10
	Depth (m/ft) X Water Supply	Recommended pump depth (m/ft)	20 4/8-90 20 30-10
(cm/in) Concrete, Plastic, Štee!) (cm/in) Fro	Test Hole	Recommended pump rate	25 50,0 25 38,10 30 50,90 30 30,10
64 STEEL .188 0+	Gecharge Well Dewatering Well Observation and/or	(I/min/GPM)	40 51.90 40 36.10
	Monitoring Hole	Well production (l/min/GPM)	50 52.55 50 30.10
	(Construction)	Disinfected?	60 53,0 60 30,10
Construction Record - Screen Outside Material	Insufficient Supply Abandoned, Poor Water Quality	Map of W	fell Location
Diameter (Diameter Slot No.	orn To Abandoned, other, specify	''	
	Other, specify	1	N
	entegrande (de maggio de une engliste e que en la collègique e annomagio recognissemente società	, 1	
Water Details  Water found at Depth Kind of Water. □ Fresh X Unto			×   5
//66 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Unt	0 (0 0 3	i '	Q
(m/ft)	ested 60 176 6 16		\( \mathcal{F} \)
(m/ft) Gas Other, specify			RIBSEMON
Well Contractor and Well Tech Business Name of Well Contractor	Well Contractor's Licence No.		
SAUNDERS WELL DRILL Business Address (Street Number/Name)	Municipality	Comments:	ļI
1680 SCHEEL DR Province Postal Code Business E-ma	BRAESIDE all Address		
ONT. KUALGO		Well owner's Date Package Deliver	Committee of the Commit
Bus, Telephone No. (inc. area code) Name of Well Technic GLR 6235643 SAUNDE	RS TROY	package delivered	31 Audit No Z349906
Well Technician's Licence No. Signature of Technician and	/or Contractor Date Submitted	No 2021/03	APR 1.2 2021.

Ministry's Copy

Ministry of the Environment, Conservation and Parks

SAUNDERS WELL DRILLING

KON160

0506E (2020/06) @ Queen's Printer for Ontarie, 2020

c. area code) Name of Well Technician (Last Name, First Name)

Saure

Signature of Technician and/or contractor

Well Tag No. (Place Sticker and/or Print Below) A309682

Well Record

Regulation 903 Ontario Water Resources Act

of Page

Measurements recorded in: Metric Imperial Concession Location (Street Number/Name)
RIDGEMONT Lot 6 BECKWITH DRA Postal Code Province Ontario LANARK UTM Coordinates Zone Easting Northing
NAD | 8 | 3 | 18 | 4 | 1557 + 5 | 0 | 0 | 3 | 553

Overburden and Bedrock Materials/Abandonment Sealing Re Municipal Plan and Sublot Number Depth (m/ft) Most Common Material General Colour From 0 LOAM CLAY & SHALE BROWN <u>85</u> LIMESTONE GREY LAYERS OF RED SANDSTONE 100 GREY LIMESTONE Annular Space Results of Well Yield Testing Volume Placed 5 (m³/ft³) Va Draw Down Depth Set at (m/ft) From To Type of Sealant Used (Material and Type) After test of well yield, water was ☐ Clear and sand free Time Water Level Time Water Level (m/ft) (m/ft) Other, specif GO BENTONITE GROUT Static Level 24,0 If pumping discontinued, give reason: 1 24.0 Pump intake set at (m/ft) 2 24.0 75
Pumping rate (I/min / GPM) 24.72 3 24.0 Method of Construction <u>/2</u> 4 24.0 24.70 Public Domestic ☐ Commercial Cable Tool Diamond ☐ Not used Duration of pumping Municipal Rotary (Conventional) Jetting ☐ Dewatering / hrs + O min 5 24.0 Livestock
Imigation ☐ Monitoring Rotary (Reverse) ☐ Driving Test Hole Final water level end of pumping (m/ft) Boring
Air percussion ☐ Cooling & Air Conditioning 10 241.75 10 24.0 Digging ☐ Industrial Other, specify Other, specify 15 24.75 15 24.0 If flowing give rate (I/min/GPM) Construction Record - Casing Status of Well 20 24.75 20 24.0 Water Supply
Replacement Well Depth (m/ft) Recommended pump depth (m/ft) Inside Open Hole OR Material Wall Diameter (cm/in) (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thicknes (cm/in) 75 25 24.80 25 24.0 То From Test Hole 0 30 24-80 30 24.0 Recommended pump rate a/88 60 Recharge Well STEEL (I/min/GPM) 12 Dewatering Well 24.83 40 24.0 Observation and/or 60 /00 Well production (I/min/GPM) OPEN HOLE Monitoring Hole 50 24.85 50 24.0 ☐ Alteration Disinfected? (Construction) 60 24.85 60 240 Yes No Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back Outside Material Slot No. Abandoned, other, From (cm/in) specify Other, specify Q Q Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Contested RIBSEMBNIT Water found at Depth Kind of Water: Fresh Tuntested

(m/ft) Gas Other, specify 67 (m/ft) □Gas (cm/in) 60  $\bigcirc$ 00 60 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information

Business Name of Well Contractor

LTD Well Contractor's

> Well owner's information package delivered Yes Yes

☐ No

Comments:

4 8 7 9

BRAESIDE

20210430

Ministry's Copy

Date Submitted

Date Package Delivered 20210336 2021/1033

Ministry Use Only Audit No. **Z**349899 APP 1 2 2021

2021/0705

Ministry's Copy

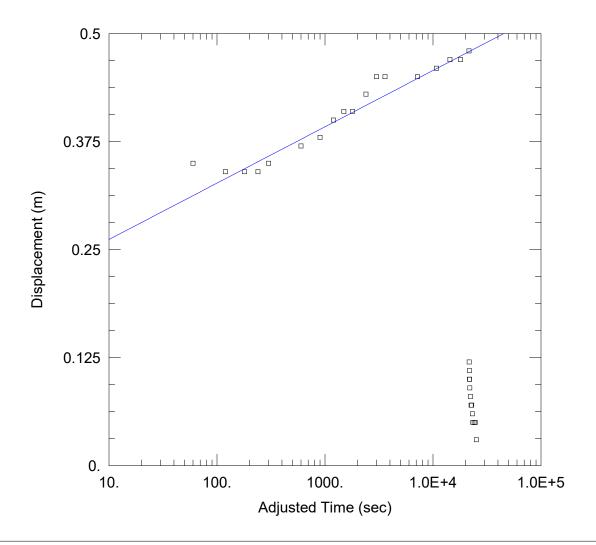
aund

∏ No

2021/06/05

Receive UN 222021

APPENDIX III
Aqtesolv Analysis Output



Company: Pinchin Ltd.
Client: Douglas Landing Developments

Project: 283258
Location: Beckwith Township
Test Well: A360957
Test Date: October 24, 2024

### **AQUIFER DATA**

Anisotropy Ratio (Kz/Kr): 1. Saturated Thickness: 34.04 m

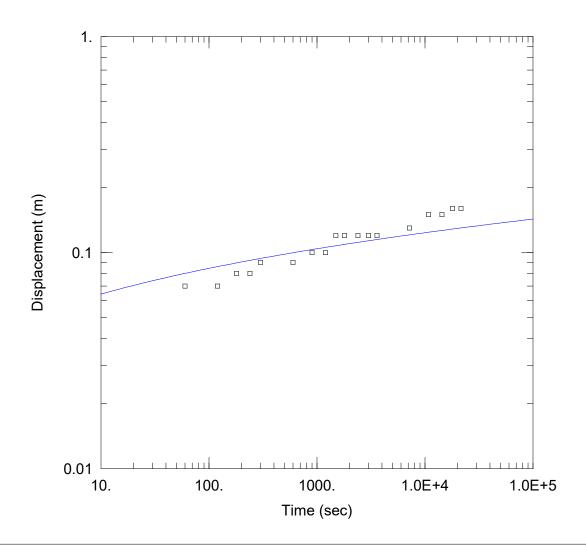
#### WELL DATA

Pumping Wells		Observation Wells			
Well Name	X (m)	Y (m)	Well Name	X (m)	Y (m)
A360957	0	0	□ A360957	0	0

#### SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

 $T = 0.003546 \text{ m}^2/\text{sec}$ S = 0.0007489



Company: Pinchin Ltd.
Client: Douglas Landing Developments

Project: 283258
Location: Beckwith Township
Test Well: A360958
Test Date: October 25, 2024

#### **WELL DATA**

Pumping Wells		Observation Wells			
Well Name	X (m)	Y (m)	Well Name	X (m)	Y (m)
A360958	0	0	□ A360958	0	0

#### SOLUTION

Aquifer Model: Leaky

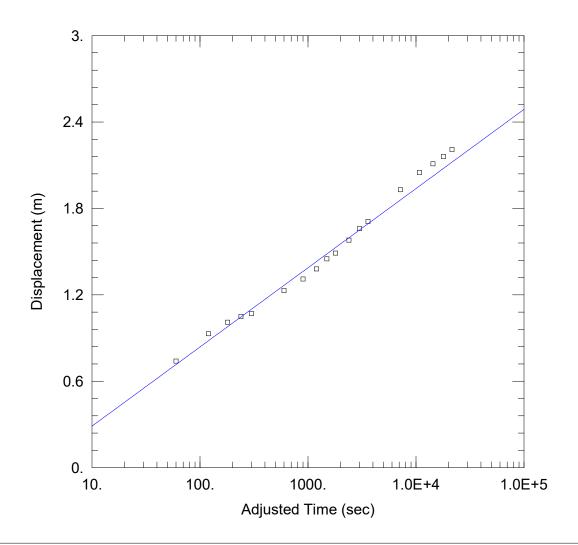
 $= 0.005984 \text{ m}^2/\text{sec}$ 

 $=\frac{0.00030}{0.1}$ =  $\frac{0.1}{21.26}$  m b

Solution Method: Hantush

= 0.04113

 $Kz/Kr = \frac{1}{1}$ 



Company: Pinchin Ltd.
Client: Douglas Landing Developments

Project: 283258

Location: Beckwith Township
Test Well: A360960
Test Date: October 21, 2024

#### **AQUIFER DATA**

Anisotropy Ratio (Kz/Kr): 1. Saturated Thickness: 48.04 m

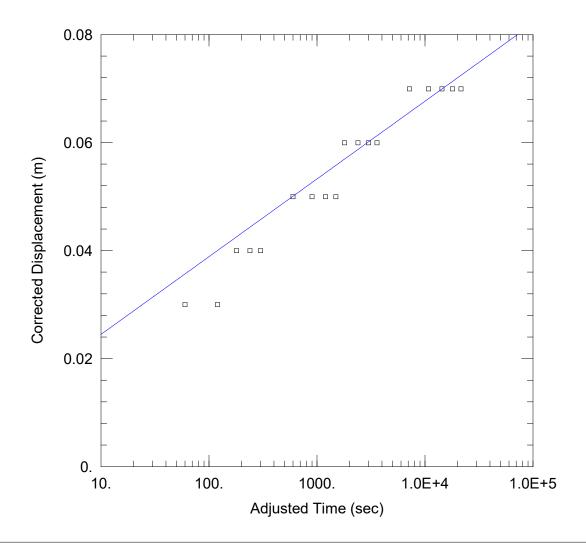
#### WELL DATA

Pumping Wells		Observation Wells			
Well Name	X (m)	Y (m)	Well Name	X (m)	Y (m)
A360959	0	0	□ A360959	0	0

#### SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

 $T = 0.0005047 \text{ m}^2/\text{sec}$ S = 0.3299



Company: Pinchin Ltd.
Client: Douglas Landing Developments

Project: 283258

Location: Beckwith Township
Test Well: A360960
Test Date: October 22, 2024

#### **AQUIFER DATA**

Anisotropy Ratio (Kz/Kr): 1. Saturated Thickness: 43.11 m

#### WELL DATA

Pumping Wells		Observation Wells			
Well Name	X (m)	Y (m)	Well Name	X (m)	Y (m)
A360960	0	0	□ A360960	0	0

#### SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

 $T = 0.01606 \text{ m}^2/\text{sec}$ S = 0.6973

APPENDIX IV
Permission Letters



August 25, 2023

Attention: Homeowner / Resident

Re: Hydrogeological Study – Well Pumping Tests.

**Permission to Monitor** 

Douglas Side Rd. Pt Lot 25 Con 12, County of Lanark, Ontario

Pinchin File: 283258.001

Dear Homeowner / Resident,

A Hydrogeological Study is being done on four new wells located on undeveloped land at the west end of Douglas Side Road (Pt Lot 25 Con 12). This work is being done to examine the groundwater quantity, quality, and the potential interactions with nearby existing wells as part of studies for a proposed development on the property.

The new wells will be pumped for approximately 6 hours, sampled for groundwater quality, and then the recovery of water level in the well will be recorded. During the Study, we would like to monitor the water level in some other wells at adjacent properties to determine if they are hydrogeologically connected. Your well is potentially in a suitable location. With your permission, staff from Pinchin would install a small datalogger in your well to measure water levels during the study.

Equipment is sterilized and does not affect your well operation. You can use your water supply as normal during the testing. The device is removed at the end of the investigation period. Participation is voluntary. The testing is being scheduled to take place within the next couple weeks.

If you would be willing to participate, please complete the attached information form at the end of this letter and Pinchin will contact you with more information regarding timing and to arrange a visit.

Pinchin Ltd.

Prepared by: Reviewed by:

Jeanette McCann Project Technologist 613.449.0685

jmcann@pinchin.com

Phil Tibble, M.Sc., P.Geo., QP<sub>ESA</sub> Senior Technical Manager – Hydrogeology 613.449.3731

ptibble@pinchin.com

\\Pinchin.com\miss\Job\283000s\0283258.000 GillianEspie,9243McArtonRd,Ott,ENS,EIS\0283258.001 GillianEspie,9243McArtonRd,Ott,ERC,Potab\Deliverables\permission to monitor\289258.001 Permission to Monitor Letter 9243 McArton Rd OTT Espie.docx

Template: Master Template for Peer Review Letter, EDR, May 28, 2019

Re: **Hydrogeological Study – Well Pumping Tests. Permission to Monitor** 

Douglas Side Rd. Pt Lot 25 Con 12, County of Lanark, Ontario

Pinchin File: 283258.001

If you have questions regarding the testing process, please contact Phil Tibble (Pinchin) email: ptibble@pinchin.com or by phone: 613-449-3731. If you have questions regarding the proposed development, please contact Gillian Espie email: g.espie@rogers.com or by phone: 613-882-6504.

August 25, 2023

Pinchin File: 283258.001

Please complete and return this page

Scan and email, or send a photo of the completed form to: ptibble@pinchin.com

### Permission to monitor private well.

Γ	
I am willing to	have my well used as a monitoring well in the study:  YES or NO
Address:	
Contact Name:	
Contact Phone:	
Contact email:	
Other Info/Comments:	
Signature:	
Date:	

© 2023 Pinchin Ltd. Page 2 of 2



August 14, 2025

Attention: Homeowner / Resident

Re: Hydrogeological Study Follow Up – Permission to Sample

Douglas Side Rd. Pt Lot 25 Con 12, County of Lanark, Ontario

Pinchin File: 283258.005

Dear Homeowner / Resident,

A Hydrogeological Study was completed on undeveloped land at the west end of Douglas Side Road (Pt Lot 25 Con 12) during 2023/24. This work assessed groundwater quantity, quality, and the potential interactions with nearby existing wells as part of studies for a proposed development on the property. As follow up to that work it was recommended that nearby residents be asked if a sample from their well water could be collected and tested to provide additional information on the background water quality in the area. It was also recommended that nearby residents be asked if they had any issues with the water quality or quantity from their well.

The purpose of this letter is to ask if a sample of untreated water could be collected from a tap or sample point prior to treatment equipment at your home and be submitted to a certified testing laboratory for analysis of water quality parameters. We also request if you could please complete a brief questionnaire about your experiences with your water quality or quantity that is attached to this letter.

Participation is voluntary. We are proposing to conduct the sampling in the next week or so. We hope that you are willing to complete the information form attached to this letter, and Pinchin will contact you with more information regarding timing and to arrange a visit to sample your water supply if you are willing to participate.

Pinchin Ltd.

Prepared by: Reviewed by:

Jeanette McCann
Project Technologist
613.449.0685

jmcann@pinchin.com

Phil Tibble, M.Sc., P.Geo., QP<sub>ESA</sub> Senior Technical Manager – Hydrogeology 613.449.3731

ptibble@pinchin.com

\\pinchin.com\kgn\Job\283000s\0283258.000 GillianEspie,9243McArtonRd,Ott,GEO,ASSMT\0283258.005 GillianEspie,9243McArtonRd,Ott,EDR,Hydro\Deliverables\289258.005 Permission to Sample Letter 9243McArtonRd Ottawa ESPIE.docx

Template: Master Template for Peer Review Letter, EDR, May 28, 2019

# **Hydrogeological Study Follow Up – Permission to Sample**Douglas Side Rd. Pt Lot 25 Con 12, County of Lanark, Ontario

August 14, 2025 Pinchin File: 283258.005

### Re: Hydrogeological Study Follow Up – Permission to Sample

Douglas Side Rd. Pt Lot 25 Con 12, County of Lanark, Ontario

Pinchin File: 283258.005

If you have questions regarding the sampling process, contact Phil Tibble (Pinchin). Email: <a href="mailto:ptibble@pinchin.com">ptibble@pinchin.com</a> or phone: 613-449-3731. If you have questions regarding the proposed development, contact Gillian Espie email: <a href="mailto:g.espie@rogers.com">g.espie@rogers.com</a> or phone: 613-882-6504.

### Please complete and return this page

Scan and email, or send a photo of the completed form to: ptibble@pinchin.com

### Permission to sample private well:

I am willing to have a water sample collected for the study: YES or NO			
Address:	Contact Name:		
Phone:	Email:		
Signature:	Date:		
Questionnaire on your water supply:			
1) Do you have issues with the quantity of water? Suc	h as running out in the summer or any time of the year?		
2) Do you have a water treatment system? If yes, what	t type (such as water softener / UV etc.)?		
3) Do you have issues with the quality of the water? S	uch as taste or smell? Continually? Seasonally?		
4) Any other comments you wish to share regarding your water supply?			

© 2025 Pinchin Ltd. Page 2 of 2

APPENDIX V
Analytical Summary Tables and Plots

# TABLE 9 RAW WELL WATER ANALYTICAL RESULTS

# Douglas Landing Developments Part Lot 25, Concession 12, Beckwith Township, Ontario

			ODWQS .	Standards		Sample D	esignation	
					Sample Collection Date (dd/mm/yyyy)			
Parameter	Units	MDL	Standard	Type of	Well #1	Well #2	Well #3	Well #4
			Stariuaru	Standard	A360958	A360957	A360960	A360959
					25-10-2024	24-10-2024	23-10-2024	21-10-2024
Microbiological Parameters								
E. Coli	CFU/100mL	1	0	MAC	0	0	0	0
Total Coliforms	CFU/100mL	1	0	MAC	0	0	0	0
General Inorganics								
Alkalinity, total	mg/L	5	30-500	OG	260	262	277	279
Ammonia as N	mg/L	0.01	-	-	0.2	0.2	0.13	< 0.05
Dissolved Organic Carbon	mg/L	1	5	AO	1.8	1.7	2.4	1.5
Colour	TCU	2	5	AO	3	<2	<2	<2
Conductivity	uS/cm	1	-	-	672	636	737	781
Hardness	mg/L		500 / 80-100	AO / OG	343	311	357	385
рН	pH Units	0.1	6.5-8.5	OG	8.17	8.08	7.99	8.14
Total Dissolved Solids	mg/L	10	500	-	349	330	385	409
Turbidity	NTU	0.1	5	AO	2.0	2.5	1.2	0.5
Anions								
Chloride	mg/L	0.5	250	AO	19.9	23.3	39.3	49.8
Fluoride	mg/L	0.1	1.5	MAC	<0.1	<0.1	<0.1	<0.1
Nitrate as N	mg/L	0.1	10	MAC	< 0.05	0.05	<0.05	1.08
Nitrite as N	mg/L	0.1	1	MAC	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	1	500	AO	61	38	58	64
Metals								
Calcium	mg/L	0.02	-	-	90.8	74.8	84	94.4
Iron	mg/L	0.005	0.3	AO	0.131	0.214	0.10	0.027
Magnesium	mg/L	0.2	-	-	28.2	30.1	35.7	36.2
Manganese	mg/L	0.001	0.05	AO	0.144	0.009	0.008	0.007
Potassium	mg/L	0.1	-	-	8	4.2	3.9	3.1
Sodium	mg/L	0.2	20 / 200	MAC* / AO	39.8	8.0	11.3	15

Notes:

Type of Standard

Ontario Drinking Water Quality Standards MAC: Maximum Acceptable Concentration

AO: Aesthetic Objective OG: Operational Guidelines

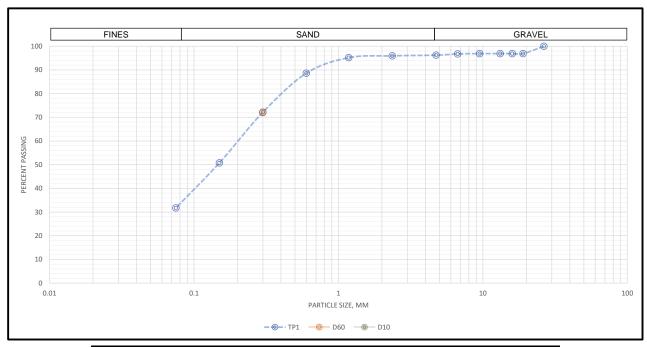
BOLD BOLD Exceed MAC Standard Exceeds AO or OG Standard

Reportable Detection Limit Exceeds Standard

Page 1 of 1 283258.005

<sup>\*</sup> This health-related limit for sodium is a "warning level" only. Exceedance calls for a recommendation that the local Medical Officer of Health be notified in order to alert persons with relevant medical conditions. Sodium also has an Aesthetic Objective of 200 mg/L. Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines June 2003 Revised June 2006 (PIBS 4449e01)





Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	97
16.0 mm	97
13.2 mm	97
9.5 mm	97
6.7 mm	97
4.75 mm	96
2.36 mm	96
1.18 mm	95
600 μm	89
300 μm	72
150 μm	51
75 μm	32

Tested: TB

Validated:

Date: 2024-12-10

Date: 12/12/2024

Silt and Clay (%)	Sand (%)	Gravel (%)	
32	64	4	
silty SAND, trace gravel			

**Lab No:** SA24-097

Client: Pinchin

Project No: 1812

Sample ID: TP1

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

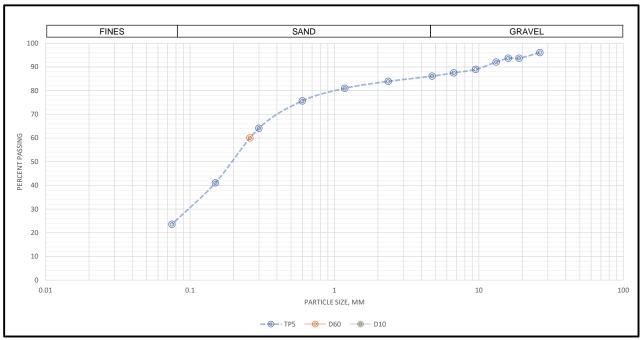
CERTIFIED BY

Canadian Council of Independent Laboratories

For specific tests as listed on www.ccil.com

T-time is estimated from grain size data only, in comparison to OBC 2012 SB-6, and based solely on the sample as received.





Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	96
19.0 mm	94
16.0 mm	94
13.2 mm	92
9.5 mm	89
6.7 mm	88
4.75 mm	86
2.36 mm	84
1.18 mm	81
600 μm	76
300 μm	64
150 μm	41
75 μm	24

Silt and Clay (%)	Sand (%)	Gravel (%)	
24	63	14	
silty, clayey SAND, some gravel			

**Lab No:** SA24-097A

Client: Pinchin

Project No: 1812

Sample ID: TP5

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

Date: 12/12/2024

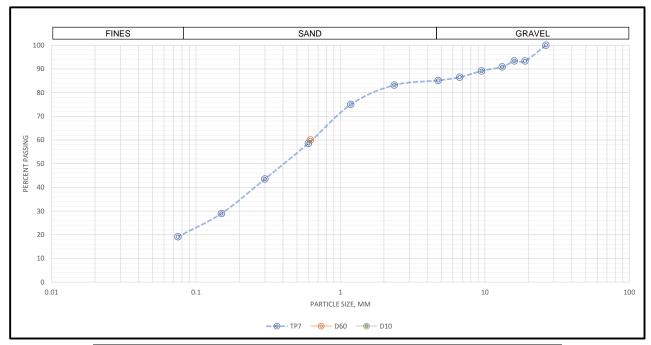
Date: 2024-12-10

Tested: TB

Validated:







Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	93
16.0 mm	93
13.2 mm	91
9.5 mm	89
6.7 mm	87
4.75 mm	85
2.36 mm	83
1.18 mm	75
600 μm	59
300 μm	44
150 μm	29
75 μm	19

Tested: TB

Validated:

Date: 2024-12-10

Date: 12/12/2024

Silt and Clay (%)	Sand (%)	Gravel (%)	
19	66	15	
SAND, some gravel, some silt and clay			

**Lab No:** SA24-097B

Client: Pinchin

Project No: 1812

Sample ID: TP7

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

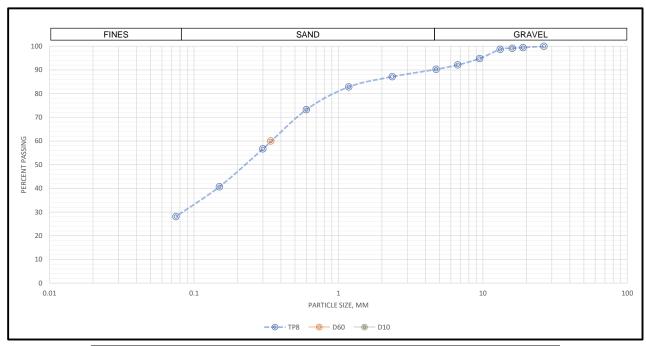
(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

T-time is estimated from grain size data only, in comparison to OBC 2012 SB-6, and based solely on the sample as received.







Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	99
16.0 mm	99
13.2 mm	99
9.5 mm	95
6.7 mm	92
4.75 mm	90
2.36 mm	87
1.18 mm	83
600 μm	73
300 μm	57
150 μm	41
75 μm	28

Silt and Clay (%)	Sand (%)	Gravel (%)		
28	62	10		
silty, clayey SAND, some gravel				

**Lab No:** SA24-097C

Client: Pinchin

Project No: 1812

Sample ID: TP8

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

Date: 12/12/2024

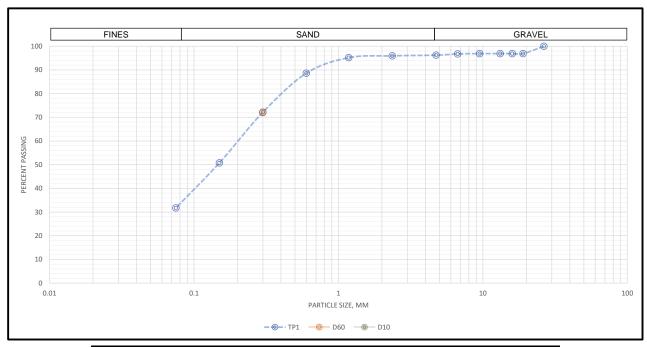
Date: 2024-12-10

Tested: TB

Validated:







Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	97
16.0 mm	97
13.2 mm	97
9.5 mm	97
6.7 mm	97
4.75 mm	96
2.36 mm	96
1.18 mm	95
600 μm	89
300 μm	72
150 μm	51
75 μm	32

Tested: TB

Validated:

Date: 2024-12-10

Date: 12/12/2024

Silt and Clay (%)	Silt and Clay (%) Sand (%)				
32	32 64				
silty SAND, trace gravel					

**Lab No:** SA24-097

Client: Pinchin

Project No: 1812

Sample ID: TP1

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

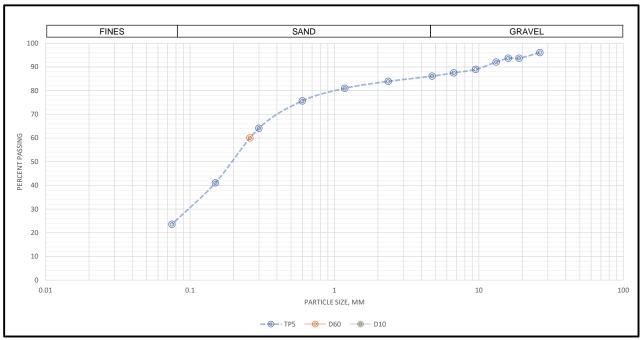
CERTIFIED BY

Canadian Council of Independent Laboratories

For specific tests as listed on www.ccil.com

T-time is estimated from grain size data only, in comparison to OBC 2012 SB-6, and based solely on the sample as received.





Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	96
19.0 mm	94
16.0 mm	94
13.2 mm	92
9.5 mm	89
6.7 mm	88
4.75 mm	86
2.36 mm	84
1.18 mm	81
600 μm	76
300 μm	64
150 μm	41
75 μm	24

Silt and Clay (%)	Sand (%)	Gravel (%)			
24	63	14			
silty, clayey SAND, some gravel					

**Lab No:** SA24-097A

Client: Pinchin

Project No: 1812

Sample ID: TP5

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

Date: 12/12/2024

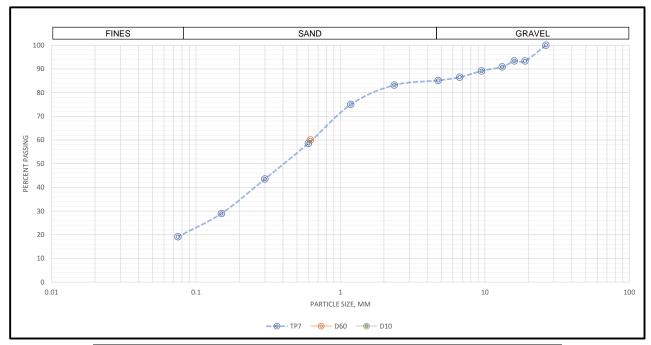
Date: 2024-12-10

Tested: TB

Validated:







Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	93
16.0 mm	93
13.2 mm	91
9.5 mm	89
6.7 mm	87
4.75 mm	85
2.36 mm	83
1.18 mm	75
600 μm	59
300 μm	44
150 μm	29
75 μm	19

Tested: TB

Validated:

Date: 2024-12-10

Date: 12/12/2024

Silt and Clay (%)	Sand (%)	Gravel (%)			
19	66	15			
SAND, some gravel, some silt and clay					

**Lab No:** SA24-097B

Client: Pinchin

Project No: 1812

Sample ID: TP7

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

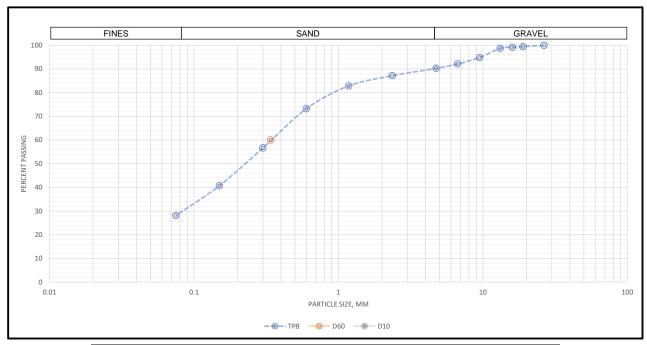
(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

T-time is estimated from grain size data only, in comparison to OBC 2012 SB-6, and based solely on the sample as received.







Sieve Opening	% Passing
63.0 mm	100
53.0 mm	100
37.5 mm	100
26.5 mm	100
19.0 mm	99
16.0 mm	99
13.2 mm	99
9.5 mm	95
6.7 mm	92
4.75 mm	90
2.36 mm	87
1.18 mm	83
600 μm	73
300 μm	57
150 μm	41
75 μm	28

Silt and Clay (%)	Silt and Clay (%) Sand (%)				
28	62	10			
silty, clayey SAND, some gravel					

**Lab No:** SA24-097C

Client: Pinchin

Project No: 1812

Sample ID: TP8

Location: -

Coefficient of

Uniformity, Cu: n/a

Effective size, D10

(mm): n/a

Notes: Estimated T-time: 8 - 20 mins/cm

Date: 12/12/2024

Date: 2024-12-10

Tested: TB

Validated:



APPENDIX VI Laboraotry Certificates of Analysis



## **CERTIFICATE OF ANALYSIS**

## **Final Report**

C.O.C.: G 130347 REPORT No: 24-032854 - Rev. 0

Report To:

Pinchin Ltd. - Kingston 1456 Centennial Dr, Suite 2 Kingston, ON K7P 0K4 **CADUCEON Environmental Laboratories** 

285 Dalton Ave

Kingston, ON K7K 6Z1

**Attention: Phil Tibble** 

DATE REPORTED:

DATE RECEIVED: 2024-Oct-21 CUSTOMER PROJECT: 283258001

2024-Oct-25 P.O. NUMBER:

SAMPLE MATRIX: Ground Water

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2024-Oct-23	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2024-Oct-23	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Oct-23	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-21	ECTC-001	MECP E3407
DOC/DIC (Liquid)	1	OTTAWA	MMACMILLAN	2024-Oct-25	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-21	FC-001	SM 9222D
Ion Balance (Calc)	1	OTTAWA	<b>ASCHNEIDER</b>		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2024-Oct-22	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	JYEARWOOD	2024-Oct-22	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	PLUSSIER	2024-Oct-23	A-TURB-01	SM 2130B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an  $\,^*$ 

**Final Report** 

REPORT No: 24-032854 - Rev. 0

				Client I.D.	A360959
				Sample I.D.	24-032854-1
Demonstra	Halta	D.I	1 : :	Date Collected DWG	2024-Oct-21
Parameter	Units	R.L.	Limits		-
Total Coliform (DC Media)	CFU/100mL	1	0	MAC	0
E coli (DC Media)	CFU/100mL	1	0	MAC	0
Background (DC Media)	CFU/100mL	1			7
Fecal Coliform	CFU/100mL	1	0	MAC	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	500	OG	279
TDS (Calc. from Cond.)	mg/L	3	500	AO	409
Conductivity @25°C	uS/cm	1			781
pH @25°C	pH units	-	8.5	OG	8.14
Colour	TCU	2	5	AO	<2
Turbidity	NTU	0.1	5	AO	0.5
Fluoride	mg/L	0.1	1.5	MAC	<0.1
Chloride	mg/L	0.5	250	AO	49.8
Nitrate (N)	mg/L	0.05	10.0	MAC	1.08
Nitrite (N)	mg/L	0.05	1.0	MAC	<0.05
Sulphate	mg/L	1	500	AO	64
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05			<0.05
Dissolved Organic Carbon	mg/L	0.2	5	AO	1.5
Hardness (as CaCO3)	mg/L as CaCO3	0.02	100, 500	OG, D55	385
Calcium	mg/L	0.02			94.4
Iron	mg/L	0.005	0.3	AO	0.027
Magnesium	mg/L	0.02			36.2

**Final Report** 

REPORT No: 24-032854 - Rev. 0

				Client I.D.	A360959
				Sample I.D.	24-032854-1
				Date Collected	2024-Oct-21
Parameter	Units	R.L.	Limits	DWG	-
Manganese	mg/L	0.001	0.05	AO	0.007
Potassium	mg/L	0.1			3.1
Sodium	mg/L	0.2	200, 20	AO, MAC	15.0
Anion Sum	meq/L	-			8.39
Cation Sum	meq/L	-			8.42
% Difference	%	-			0.215
TDS (Ion Sum Calc)	mg/L	1	500	AO	435
Conductivity Calc	µmho/cm	-			789

#### **DWG - Drinking Water Guidelines**

ODWS - Ontario Drinking Water Standards

AO - Aesthetic Objectives

IMAC - Interim Maximum Acceptable Concentration

MAC - Maximum Acceptable Concentration

ODWO - D-5-5 Objective

OG - Operational Guidelines

WL - Warning Level - Sodium Restricted Diets

Summary of Exceedances		
Operational Guidelines		
A360959	Found Value	Limit
Hardness (as CaCO3)	385	100



## **CERTIFICATE OF ANALYSIS**

## **Final Report**

C.O.C.: G 130350 REPORT No: 24-033331 - Rev. 0

Report To:

Pinchin Ltd. - Kingston 1456 Centennial Dr, Suite 2 Kingston, ON K7P 0K4 **CADUCEON Environmental Laboratories** 

285 Dalton Ave

Kingston, ON K7K 6Z1

**Attention: Phil Tibble** 

DATE REPORTED:

DATE RECEIVED: 2024-Oct-23 CUSTOMER PROJECT: 283258001

2024-Oct-29 P.O. NUMBER:

SAMPLE MATRIX: Ground Water

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2024-Oct-25	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2024-Oct-25	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Oct-25	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-23	ECTC-001	MECP E3407
DOC/DIC (Liquid)	1	OTTAWA	SLOZO	2024-Oct-28	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-23	FC-001	SM 9222D
Ion Balance (Calc)	1	OTTAWA	ASCHNEIDER		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2024-Oct-25	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	JYEARWOOD	2024-Oct-24	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	STAILLON	2024-Oct-24	A-TURB-01	SM 2130B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an  $\,^\star$ 

REPORT No: 24-033331 - Rev. 0

	Clie	ent I.D.	A360960
Parameter	Sam <sub> </sub> Date Co Units	ple I.D. Ilected R.L.	24-033331-1 2024-10-23
Total Coliform (DC Media)	CFU/100mL	1	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	0
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	277
TDS (Calc. from Cond.)	mg/L	3	385
Conductivity @25°C	uS/cm	1	737
pH @25°C	pH units	-	7.99
Colour	TCU	2	<2
Turbidity	NTU	0.1	1.2
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	39.3
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	58
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.13
Dissolved Organic Carbon	mg/L	0.2	2.4
Hardness (as CaCO3)	mg/L	0.02	357
Calcium	mg/L	0.02	84.0
Iron	mg/L	0.005	0.100
Magnesium	mg/L	0.02	35.7

	Clie	ent I.D.	A360960
	Sam	ple I.D.	24-033331-1
	Date Co		2024-10-23
Parameter	Units	R.L.	-
Manganese	mg/L	0.001	0.008
Potassium	mg/L	0.1	3.9
Sodium	mg/L	0.2	11.3
Anion Sum	meq/L	-	7.83
Cation Sum	meq/L	-	7.74
% Difference	%	-	0.612
TDS (Ion Sum Calc)	mg/L	1	398
Conductivity Calc	µmho/cm	-	727



## **CERTIFICATE OF ANALYSIS**

## **Final Report**

C.O.C.: G 130362 REPORT No: 24-033470 - Rev. 0

Report To:

Pinchin Ltd. - Kingston 1456 Centennial Dr, Suite 2 Kingston, ON K7P 0K4

**CADUCEON Environmental Laboratories** 

285 Dalton Ave

Kingston, ON K7K 6Z1

**Attention: Phil Tibble** 

DATE REPORTED:

CUSTOMER PROJECT: 283258001 2024-Oct-24 DATE RECEIVED:

> 2024-Nov-04 P.O. NUMBER:

**Ground Water** SAMPLE MATRIX:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	LMACGREGOR	2024-Oct-28	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2024-Oct-30	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Oct-28	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-24	ECTC-001	MECP E3407
DOC/DIC (Liquid)	1	OTTAWA	MMACMILLAN	2024-Nov-01	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-24	FC-001	SM 9222D
Ion Balance (Calc)	1	OTTAWA	TPRICE		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	NHOGAN	2024-Oct-28	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	JYEARWOOD	2024-Nov-01	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	PLUSSIER	2024-Oct-28	A-TURB-01	SM 2130B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an \*

REPORT No: 24-033470 - Rev. 0

	Clie	ent I.D.	A360957
P	Date Co		24-033470-1 2024-10-24
Parameter  Total Coliform (DC Media)	Units CFU/100mL	<b>R.L.</b>	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	0
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	262
TDS (Calc. from Cond.)	mg/L	3	330
Conductivity @25°C	uS/cm	1	636
pH @25°C	pH units	-	8.08
Colour	TCU	2	<2
Turbidity	NTU	0.1	2.5
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	23.3
Nitrate (N)	mg/L	0.05	0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	38
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.20
Dissolved Organic Carbon	mg/L	0.2	1.7
Hardness (as CaCO3)	mg/L	0.02	311
Calcium	mg/L	0.02	74.8
Iron	mg/L	0.005	0.214
Magnesium	mg/L	0.02	30.1

REPORT No: 24-033470 - Rev. 0

	Clid	ent I.D.	A360957
	Sam	ple I.D.	24-033470-1
	Date Co		2024-10-24
Parameter	Units	R.L.	-
Manganese	mg/L	0.001	0.009
Potassium	mg/L	0.1	4.2
Sodium	mg/L	0.2	8.0
Anion Sum	meq/L	-	6.68
Cation Sum	meq/L	-	6.67
% Difference	%	-	0.0348
TDS (Ion Sum Calc)	mg/L	1	336
Conductivity Calc	µmho/cm	-	620



## **CERTIFICATE OF ANALYSIS**

## **Final Report**

REPORT No: 24-033583 - Rev. 0 C.O.C.: G 131064

Report To:

Pinchin Ltd. - Kingston 1456 Centennial Dr, Suite 2 Kingston, ON K7P 0K4

**CADUCEON Environmental Laboratories** 

285 Dalton Ave

Kingston, ON K7K 6Z1

**Attention: Phil Tibble** 

DATE REPORTED:

CUSTOMER PROJECT: 283258001 2024-Oct-25 DATE RECEIVED:

> 2024-Nov-01 P.O. NUMBER:

**Ground Water** SAMPLE MATRIX:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2024-Oct-28	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2024-Oct-31	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Oct-29	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-25	ECTC-001	MECP E3407
DOC/DIC (Liquid)	1	OTTAWA	MMACMILLAN	2024-Oct-31	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2024-Oct-25	FC-001	SM 9222D
Ion Balance (Calc)	1	OTTAWA	ASCHNEIDER		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2024-Oct-31	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	KDIBBITS	2024-Oct-31	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	PLUSSIER	2024-Oct-29	A-TURB-01	SM 2130B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an \*

REPORT No: 24-033583 - Rev. 0

	Clie	ent I.D.	A360958
	Date Co		24-033583-1 2024-10-25
Parameter  Total Coliform (DC Media)	Units CFU/100mL	<b>R.L.</b>	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	6
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	260
TDS (Calc. from Cond.)	mg/L	3	349
Conductivity @25°C	uS/cm	1	672
pH @25°C	pH units	-	8.17
Colour	TCU	2	3
Turbidity	NTU	0.1	2.0
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	19.9
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	61
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.20
Dissolved Organic Carbon	mg/L	0.2	1.8
Hardness (as CaCO3)	mg/L	0.02	343
Calcium	mg/L	0.02	90.8
Iron	mg/L	0.005	0.131
Magnesium	mg/L	0.02	28.2

	Clie	ent I.D.	A360958
	Sam	ple I.D.	24-033583-1
	Date Co		2024-10-25
Parameter	Units	R.L.	-
Manganese	mg/L	0.001	0.144
Potassium	mg/L	0.1	8.0
Sodium	mg/L	0.2	39.8
Anion Sum	meq/L	-	7.02
Cation Sum	meq/L	-	8.80
% Difference	%	-	11.3
TDS (Ion Sum Calc)	mg/L	1	404
Conductivity Calc	µmho/cm	-	732

APPENDIX VII
Borehole Logs



Project #: 283258.002 Logged By: MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

	SUBSURFACE PROFILE			SAMPLE								
Depth (m)	Description	Elevation (m) Monitoring	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
	Ground Surface  Organics ~ 50 mm  Glacial Till Silty sand, some gravel, some clay, brown, damp, compact  End of Borehole  Borehole terminated at 0.30 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.	0.00 0.05 0.30  ♣ No Monitoring Well Installed	SS	1	20	20						

Contractor: Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon Top of Casing Elevation: N/A

Well Casing Size: N/A

Sheet: 1 of 1

Grade Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

		SUBSURFACE PROFILE			SAMPLE									
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
1-		Ground Surface  Organics ~ 50 mm  Glacial Till Silty sand, some gravel, some clay, brown, damp, loose  End of Borehole  Borehole terminated at 0.61 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.	0.00	▲ No Monitoring Well Installed	SS	1	30	7			13.7			Hyd.

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Grade Elevation: N/A

Top of Casing Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

SUBSURFACE PROFILE					SAMPLE									
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface  Organics ~ 75 mm  Glacial Till Silty sand, some gravel, some clay, brown, moist, loose  End of Borehole	0.00	M No Monitoring Well Installed	SS	1	20	7						
		Borehole terminated at 0.46 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												

Contractor: Canadian Environmental Drilling and Contractors Inc. Grade Elevation: N/A

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

\_ .. . .. .. ..

Top of Casing Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

		SUBSURFACE PROFILE				SAMPLE								
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface												-
0-	1	Organics ~ 75 mm	0.00	stalled ➡										
-		Glacial Till Silty sand, some gravel, some clay, brown, damp, compact	0.08	<ul><li>No Monitoring Well Installed</li></ul>	SS	1	30	22						
	::: : ::::	End of Borehole	0.30	<b>▼</b>										
-		Borehole terminated at 0.30 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												
1-														

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

**Grade Elevation: N/A** 

Top of Casing Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

		SUBSURFACE PROFILE				- 12.0		,		AMPLE			nager.	
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
1-		Ground Surface  Organics ~ 50 mm  Glacial Till Silty sand, some gravel, some clay, brown, damp, compact  End of Borehole  Borehole terminated at 0.61 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.	0.00	Monitoring Well Installed	SS	1	50	26						

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Grade Elevation: N/A

Top of Casing Elevation: N/A



Project #: 283258.002 Logged By: MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

				וווזט	Date.	Sepi	embe	er 15,	2022		Proj	ect ivia	nager:	VV I
		SUBSURFACE PROFILE							S	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface		_										
	{\{\}	Organics ~ 75 mm	0.00	<b>T</b>										
-		Glacial Till Gravelly, silty sand, trace clay, brown, damp, compact	0.08	Monitoring Well Installed —	SS	1	30	15			12.0			Hyd.
		End of Borehole	0.46											
-		Borehole terminated at 0.46 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												
1-														

Contractor: Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Top of Casing Elevation: N/A

Grade Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

		SUBSURFACE PROFILE						<u> </u>	S	AMPLE			nager.	
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>Δ</sup> kPa <sup>Δ</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-		Ground Surface												-
-	\{\{\ <b>\</b>	Organics ~ 75 mm  Glacial Till Gravelly, silty sand, trace clay, brown, damp, compact	0.00	No Monitoring Well Installed ———►	SS	1	40	15						
-		End of Borehole	0.46	No Monitori										
-	-	Borehole terminated at 0.46 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												
-	-													
1-	_													

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Grade Elevation: N/A

Top of Casing Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

		SUBSURFACE PROFILE								AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>△</sup> kPa <sup>△</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	$\sim$	Ground Surface	0.00	<b>*</b>										
Transaction and the first of th		Organics ~ 150 mm  Glacial Till Silty sandy gravel, trace clay, brown, damp, very dense	0.15	Monitoring Well Installed ———————————————————————————————————	SS	1	80	95						
		End of Borehole	0.61	_										
1-		Borehole terminated at 0.61 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Top of Casing Elevation: N/A

Grade Elevation: N/A



**Project #:** 283258.002 **Logged By:** MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

				ווווט	Date.	Sept	ennoe	# 1 <b>5</b> ,	2022		Proj	ect ivia	nager:	VVI
		SUBSURFACE PROFILE							s	AMPLE				
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength △ kPa △ 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-	}	Ground Surface	0.00	<u>¥</u>										
	1999	Organics ~ 75 mm	0.00	nstallec				_			7.0			Uhad
	<b>:</b>	Glacial Till Silty sandy gravel, trace clay, brown, damp, loose	0.08	MNo MW InstalledM	SS	1	10	5			7.2			Hyd.
-		End of Borehole	0.15	Ī										
		Borehole terminated at 0.15 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.												
1-														

Contractor: Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon

Well Casing Size: N/A

Grade Elevation: N/A

Top of Casing Elevation: N/A



Project #: 283258.002 Logged By: MK

**Project:** Geotechnical Investigation

Client: 1503948 Ontario Inc.

Location: 9243 McArton Road, Almonte, ON

Drill Date: September 15, 2022 Project Manager: WT

	SUBSURFACE PROFILE							S	AMPLE				
Depth (m) Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength <sup>△</sup> kPa <sup>△</sup> 100 200	Water Content (%)	Sample ID	Soil Vapour Concentration (ppm)	Laboratory Analysis
0-~	Ground Surface	0.00	<b></b>										
પૈરિપિપિપ	Organics ~ 150 mm												
	Glacial Till Silty sandy gravel, trace clay, brown, damp, dense	0.15	Monitoring Well Installed	SS	1	60	31						
	End of Borehole  Borehole terminated at 0.46 mbgs due to auger refusal on probable bedrock. At drilling completion, groundwater was not encountered.	0.46	_										

**Contractor:** Canadian Environmental Drilling and Contractors Inc.

Drilling Method: Solid Stem Auger/Split Spoon Top of Casing Elevation: N/A

Well Casing Size: N/A

Sheet: 1 of 1

Grade Elevation: N/A

APPENDIX VIII

Nitrate Attenuation Calculations

Variable Description	Variable	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23	4
ots area		m <sup>2</sup>	5,590	5,662	5,344	19,233	6,927	4,343	7,108	5,418	6,391	5,195	5,008	5,917	5,899	6,347	4,781	5,205	4,094	4,156	4,670	5,320	4,538	4,049	4,104	
Itrate Concentration of Infiltration	Ci	mg/m³	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1
te Infiltration Qi = A*PI (area*potential infiltration)	Qi	m³/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	1376	1062	1079	1225	1408	1187	1049	1065	lots area X potential infiltratio
Daily Sewage Volume per Lot (4 bedrm)	Qd	m <sup>3</sup> /day	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
Maximum Yearly Sewage Volume (water) Qe=365*Qd		m <sup>3</sup>	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	1
Dilution volume associated with sewage effluent		m <sup>2</sup> /day	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	The volume of sewage effluent, it
Dilution volume associated with sewage effluent	Qe	m³/yr	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	as dilution water in mass balance calculations, should not exceed
Total yearly dilution Volume from sewage effluent		m <sup>2</sup> /yr	1849	1870	1780	5700	2227	1497	2278	1801	2075	1738	1685	1942	1936	2063	1621	1741	1427	1444	1590	1773	1552	1414	1430	1000L/day/lot.
Nitrate Concentration in Sewage	Ce	mg/m³	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1
Maximum Allowable Nitrate Concentration at Boundary	Cm	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1
Max Observed Backgroun Nitrate Concentation	СЪ	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1
Nitrate Concentration at Boundaries = (QeCe+QiCi)/(Qe+Qi)+Cb	c	mg/L	9.06	8.97	9.36	3.73	7.72	10.91	7.57	9.27	8.20	9.56	9.82	8.68	8.70	8.24	10.16	9.55	11.39	11.26	10.34	9.39	10.56	11.48	11.37	

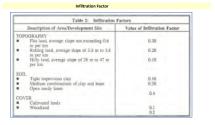
	Temperature			Potentia	al Evapotranspi	ration	
Period	Monthly Mean T (*C)		Annual Heat	Monthly PET	Correction	PET	Annual PET
renou	OTTAWA AP	1	Index (I)	(unadjusted)	Factor	PEI	(mm/yr)
JAN	-10.0	0.00		0.00	0.80	0.00	
FEB	-8.5	0.00		0.00	0.81	0.00	T
MAR	-2.4	0.00	1	0.00	1.02	0.00	Ī
APR	5.9	1.28		26.01	1.13	29.40	T
MAY	13.6	4.55		65.03	1.28	83.23	T
JUN	18.7	7.37	37.88	92.22	1.29	118.96	603.03
JUL	21.2	8.91	37.00	105.82	1.31	138.63	7 003.03
AUG	20.1	8.22		99.82	1.21	120.78	T
SEP	15.3	5.44		73.99	1.04	76.95	T
OCT	8.2	2.11		37.33	0.94	35.09	T
NOV	1.7	0.00		0.00	0.79	0.00	I
DEC	-5.8	0.00		0.00	0.70	0.00	
Annual	6.5						

PET	(unadjust	ed) = 1	6 (10)	)*							i = I =		)^1.514 n of monthly
	on of 'a' (e												
= (6.7x	10 <sup>-7</sup> *1 <sup>3</sup> ) - (7	.71x10	*1 <sup>2</sup> )+(0	.01792	I) + (0.4	19239)					3 =		1.10
Latitud	kin <sup>0</sup> J	F	м	A	м	1	. 1	A	S	0	N	D	
0	1.04	0.94	1.04	1.05	1.04	1.01	1.04	1.04	1.01	1.04	1.01	1.04	
10	1.00	0.91	1.03	1.03	1.06	1.06	1.00	1,07	1.02	1.02	0.98	0.99	
	0.95	0.90	1.65	1.05	1.13	1.11	1.14	1.31	1.02	1.00	0.93	9,94	
20		0.67	1.03	1.06	1.16	1.17	1.20	1.14	1.03	0.98	0.89	0.88	
30	0.90												
20 10 33	0.87	0.85	1.03	1.09	1.21	1.21	123	1.16	1.03	0.97	0.86	0.85	
20 30 33 40	0.87	0.85	1.63	1.11	1.24	1.25	1.27	1.18	1.04	0.95	0.83	0.81	
20 10 33 40 45	0.87 0.84 0.90	0.85 0.83 0.81	1.63 1.63 1.12	1.11	1.24	1.25	1.27	1.18	1.04	0.96	0.83	0.81	
20 30 33 40	0.87	0.83 0.83 0.81 0.78	1.63 1.63 1.12 1.62	1.11 1.12 1.15	1.24	1.25 1.29 1.36	1.27 1.31 1.37	1.18 1.21 1.25	1.04 1.04 1.06	0.95	0.83	0.81	

#### SITE INFILTRATION

Period	Mor	thly Precipitation (mm)
Period		OTTAWA AP
JAN		80.4
FEB		63.3
MAR		64.4
APR		83.2
MAY		85.3
JUN		94.8
JUL		97.2
AUG		82.6
SEP		98.9
OCT		99.5
NOV		81.9
DEC		74.8
nnual		1006





LOT Areas	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
Total	m <sup>2</sup>	5,590	5,662	5,344	19,233	6,927	4,343	7,108	5,418	6,391	5,195	5,008	5,917	5,899	6,347	4,781	5,205	4,094	4,156	4,670	5,320	4,538	4,049	4,104
Impervious - House	m <sup>2</sup>	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Impervious - Lane	m <sup>2</sup>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lawn/other	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772
LOT Infiltration	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
AREA	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772
infiltration	m*/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	13/6	1062	1079	1225	1408	1187	1049	1065

283258.005

Variable Description	Variable	Units	Lot 1	Lot 2	Int 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23	<u> </u>
ots area		m <sup>2</sup>	5.590	5.662	5.344	19.233	6.927	4.343	7.108	5.418	6.391	5.195	5.008	5.917	5.899	6.347	4.781	5.205	4.094	4.156	4.670	5.320	4.538	4.049	4.104	1
itrate Concentration of Infiltration	Ci	mg/m <sup>3</sup>	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1
ite Infiltration Qi = A*PI (area*potential infiltration)	Qi	m³/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	1376	1062	1079	1225	1408	1187	1049	1065	lots area X potential infiltration
Daily Sewage Volume per Lot (4 bedrm)	Qd	m <sup>3</sup> /day	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
Maximum Yearly Sewage Volume (water) Qe=365*Qd		m³	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	1
Dilution volume associated with sewage effluent		m <sup>2</sup> /day	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	The volume of sewage effluent, if
Dilution volume associated with sewage effluent	Qe	m <sup>3</sup> /yr	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	as dilution water in mass balance calculations, should not exceed
Total yearly dilution Volume from sewage effluent		m³/yr	1849	1870	1780	5700	2227	1497	2278	1801	2075	1738	1685	1942	1936	2063	1621	1741	1427	1444	1590	1773	1552	1414	1430	1000L/day/lot.
litrate Concentration in Sewage	Ce	mg/m <sup>3</sup>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-
Maximum Allowable Nitrate Concentration at Boundary	Cm	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1
Nax Observed Backgroun Nitrate Concentation	СР	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	
Nitrate Concentration at Boundaries C = (QeCe+QiCi)/(Qe+Qi)+Cb	с	mg/L	5.11	5.07	5.26	2.45	4.44	6.03	4.37	5.21	4.68	5.36	5.49	4.92	4.93	4.70	5.66	5.35	6.27	6.21	5.75	5.28	5.86	6.32	6.26	

	Temperature			Potentia	al Evapotranspir	ration	
Period	Monthly Mean T (*C)		Annual Heat	Monthly PET	Correction	PET	Annual PE
Period	OTTAWA AP	1	Index (I)	(unadjusted)	Factor	PEI	(mm/yr)
JAN	-10.0	0.00		0.00	0.80	0.00	
FEB	-8.5	0.00		0.00	0.81	0.00	Ī
MAR	-2.4	0.00		0.00	1.02	0.00	Ī
APR	5.9	1.28		26.01	1.13	29.40	Ī
MAY	13.6	4.55		65.03	1.28	83.23	Ī
JUN	18.7	7.37	37.88	92.22	1.29	118.96	603.03
JUL	21.2	8.91	37.00	105.82	1.31	138.63	003.03
AUG	20.1	8.22		99.82	1.21	120.78	T
SEP	15.3	5.44		73.99	1.04	76.95	Ī
OCT	8.2	2.11		37.33	0.94	35.09	Ī
NOV	1.7	0.00		0.00	0.79	0.00	Ī
DEC	-5.8	0.00		0.00	0.70	0.00	Ī
Annual	6.5						

			/10	4.9	1						i=	(T/5)	^1.514
PET	(unadjust	ed) = 1	6 (10)	-)							I =		of mont
_			_	1	J								
	on of 'a' (e												
-(6.7x)	10 <sup>-7</sup> *I <sup>3</sup> ) - (7	7.71x10	*I')+(0	.01792	(0.4)	19239)					3 =		1.10
CT 0	ection Fact		eterrat e										
EI Corre	ection Fact	or by La	tituae										_
Latitud	ino I	F	м	A	м	1	1	A	S	0	N	D	
	1.04	0.94	1.04	1.01	1.04	1.01	1.04	1.04	1.01	1.04	1.01	1.04	
0				1.03	1.06	1.06	10.00	1,07	1.02	1.02	0.98	0.99	
10	1.00	0.91	1.03										
10	0.95	0.90	1.63	1.05	1.13	1.11	1.14	1.31	1.02	1.00	0.93	9.94	
10													
10 20 10 33	0.95	0.90	1.63	1.05	1.13	1.11	1.14	1.31	1.02	1.00	0.93	9.94	
10 20 10	0.95	0.90	1.65	1.05	1.13	1.17	1 14	1.31	1.02	0.98	0.93 0.89	0.94	
10 20 10 33 40	0.95 0.90 0.87 0.81	0.90 0.87 0.85 0.83	1.63 1.63 1.63	1.05 1.08 1.09 1.11	1.15 1.16 1.21 1.24	1.11 1.17 1.21 1.25	1.14 1.20 123 1.27	1.31 1.34 1.36 1.38	1.02 1.03 1.03 1.04	0.98 0.97	0.93 0.89 0.86	0.94 0.88 0.85 0.81	
10 20 10 33	0.95 0.90 0.87	0.90 0.87 0.85	1.65 1.63 1.63	1.05	1.13 1.16 1.21	1.11 1.17 1.21	1 14 1 20 123	1.31 1.34 1.16	1.02	0.98 0.97 0.96	0.93 0.89 0.86 0.83	0.94 0.88 0.85	

#### SITE INFILTRATION

Period	Mo	nthly Precipitation (mm)
Period		OTTAWA AP
JAN	l	80.4
FEB		63.3
MAR	₹	64.4
APR		83.2
MAY	′	85.3
JUN	l	94.8
JUL		97.2
AUG	i	82.6
SEP		98.9
OCT		99.5
NO/	,	81.9
DEC	:	74.8
innual		1006.



PI = 282.3 mm/yr



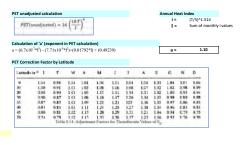
LOT Areas	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
Total	m <sup>2</sup>	5,590	5,662	5,344	19,233	6,927	4,343	7,108	5,418	6,391	5,195	5,008	5,917	5,899	6,347	4,781	5,205	4,094	4,156	4,670	5,320	4,538	4,049	4,104
Impervious - House	m <sup>2</sup>	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Impervious - Lane	m <sup>2</sup>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lawn/other	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772

LOT Infiltration	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
AREA	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772
infiltration	m²/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	1376	1062	1079	1225	1408	1187	1049	1065
Volume	1/vr	1484258	1 504 583	1 414 816	5 335 483	1 861 675	1 132 248	1 912 768	1 435 705	1 710 369	1 372 756	1 319 968	1 576 566	1 571 485	1 697 949	1 255 889	1 375 578	1 061 959	1 079 461	1 224 556	1 408 041	1 187 294	1 049 256	1 064 782

283258.005

Variable Description	Variable	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23	4
ots area		m <sup>2</sup>	5,590	5,662	5,344	19,233	6,927	4,343	7,108	5,418	6,391	5,195	5,008	5,917	5,899	6,347	4,781	5,205	4,094	4,156	4,670	5,320	4,538	4,049	4,104	
itrate Concentration of Infiltration	Ci	mg/m <sup>3</sup>	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
ite Infiltration Qi = A*PI (area*potential infiltration)	Qi	m³/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	1376	1062	1079	1225	1408	1187	1049	1065	lots area X potential infiltrat
aily Sewage Volume per Lot (4 bedrm)	Qd	m³/day	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
faximum Yearly Sewage Volume (water) Qe=365*Qd		m³	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	
ilution volume associated with sewage effluent		m³/day	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	The volume of sewage effluen
ilution volume associated with sewage effluent	Qe	m³/yr	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	used as dilution water in mass balance calculations, should no
otal yearly dilution Volume from sewage effluent		m <sup>2</sup> /yr	1849	1870	1780	5700	2227	1497	2278	1801	2075	1738	1685	1942	1936	2063	1621	1741	1427	1444	1590	1773	1552	1414	1430	exceed 1000L/day/lot.
litrate Concentration in Sewage	Ce	mg/m <sup>3</sup>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
faximum Allowable Nitrate Concentration at Boundary	Cm	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7
fax Observed Backgroun Nitrate Concentation	Cb	1.08	1.09	1.08	1.08	1.09	1.08	1.09	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1

	Temperature			Potentia	al Evapotranspi	ration	
Period	Monthly Mean T (*C)	i	Annual Heat	Monthly PET	Correction	PFT	Annual PE
renou	OTTAWA AP	1	Index (I)	(unadjusted)	Factor	PEI	(mm/yr)
IAN	-10.0	0.00		0.00	0.80	0.00	
FEB	-8.5	0.00	1	0.00	0.81	0.00	
MAR	-2.4	0.00	1	0.00	1.02	0.00	
APR	5.9	1.28	1	26.01	1.13	29.40	1
MAY	13.6	4.55	1	65.03	1.28	83.23	1
JUN	18.7	7.37	37.88	92.22	1.29	118.96	603.03
JUL	21.2	8.91	37.00	105.82	1.31	138.63	003.03
AUG	20.1	8.22	1	99.82	1.21	120.78	
SEP	15.3	5.44	1	73.99	1.04	76.95	
OCT	8.2	2.11	1	37.33	0.94	35.09	1
NOV	1.7	0.00	1	0.00	0.79	0.00	1
DEC	-5.8	0.00	1	0.00	0.70	0.00	1
Annual	6.5		•				



#### SITE INFILTRATION

Precipitation	
Period	Monthly Precipitation (mm)
Period	OTTAWA AP
JAN	80.4
FEB	63.3
MAR	64.4
APR	83.2
MAY	85.3
JUN	94.8
JUL	97.2
AUG	82.6
SEP	98.9
OCT	99.5
NOV	81.9
DEC	74.8
Annual	1000





PI = (Precipitation - PET)\* Infiltration Coefficient

PI = 282.3 mm/yr

Table 2: Infiltration	Factors
Description of Area/Development Site	Value of Infiltration Factor
TOPOGRAPHY	
<ul> <li>Flat land, average slope not exceeding 0.6 m per km</li> </ul>	0.30
<ul> <li>Rolling land, average slope of 2.8 m to 3.8 m per km</li> </ul>	0.20
<ul> <li>Hilly land, average slope of 28 m to 47 m per km</li> </ul>	0.10
SOIL	
Tight impervious clay     Medium combinations of clay and loam     Open sandy loam	0.10 0.20
COVER	0.4
<ul> <li>Cultivated lands</li> </ul>	0.1
■ Woodland	0.1

Infiltration Factor

LOT Areas	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
Total	m <sup>2</sup>	5,590	5,662	5,344	19,233	6,927	4,343	7,108	5,418	6,391	5,195	5,008	5,917	5,899	6,347	4,781	5,205	4,094	4,156	4,670	5,320	4,538	4,049	4,104
Impervious - House	m <sup>2</sup>	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232	232
Impervious - Lane	m <sup>2</sup>	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lawn/other	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772

LOT Infiltration	Units	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Lot 12	Lot 13	Lot 14	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19	Lot 20	Lot 21	Lot 22	Lot 23
AREA	m <sup>2</sup>	5258	5330	5012	18901	6595	4011	6776	5086	6059	4863	4676	5585	5567	6015	4449	4873	3762	3824	4338	4988	4206	3717	3772
infiltration	m³/yr	1484	1505	1415	5335	1862	1132	1913	1436	1710	1373	1320	1577	1571	1698	1256	1376	1062	1079	1225	1408	1187	1049	1065
Volume	1 fur	1/19/1759	1 504 583	1 /1/ 916	5 225 492	1 861 675	1 132 248	1 912 768	1 //25 705	1 710 269	1 372 756	1 210 069	1 576 566	1 571 485	1 607 040	1 255 990	1 375 578	1.061.050	1 079 461	1 224 556	1 409 041	1 197 704	1.049.256	1.064.782

283258.005 1 of 1