Hydrogeological Assessment
1763 County Road 19, PEC, ON

Prepared for:
Mr. Sorin Tudor
1763 County Road 19,
PEC, ON K0K 1T0

Prepared by:
ASC Environmental Inc.
1305 Princess St,
Kingston, ON K7M 3E3

File: ASC-1025 101r
August 13, 2025

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1.0 INTRODUCTION

1.1 Initiation and Objective

ASC Environmental Inc. (ASC) was retained by *Sorin Tudor* (Client) to conduct a hydrogeological assessment in support of a land severance application in accordance with The County of Prince Edward provision for consent. The subject property encompasses approximately 20.6 hectares located along the east side of County Road 19, Prince Edward, Ontario. The proposed severed lot encompasses approximately 0.9 hectares with 90 metres of road frontage along the south side of County Road 19. A site location plan is shown on Drawing No. 1 in Appendix A.

The purpose of the hydrogeological study was to assess the viability of one dug well (TW1) to support the proposed severance. The study evaluated whether groundwater quality and quantity are sufficient to support the residential development without adversely impacting upon existing neighbouring wells.

One (1) newly dug well (MECP Tag #A372065) was advanced on June 27, 2025, on the severed portion of the subject property by Q-Logic Water Ltd. (Well Contractor's Licence # 7717).

1.2 Scope of Work

The agreed scope of work included the following efforts:

- Reviewing available Ministry of Environment, Conservation and Parks (MECP) well water records and historical data for the local area.
- Undertake a six-hour pumping test (with recovery) on the recently dug well located on the proposed severed parcel.
- Monitor water levels in available neighbouring adjacent wells during pumping.
- Collect a well water sample following zero chlorine residual and in the final hour of the pumping test (approximate 6.5-hour mark).
- Submit well water samples to a certified laboratory for the required suite of parameters, as indicated in the MECP D-5-5 Procedure.
- Prepare a hydrogeological assessment, in reference with the MECP D-5-5 Guideline and The County of Prince Edward's Comprehensive Zoning By-law, as amended, including assessment of water quality, water quantity, potential well interference, and evaluation of nutrient attenuation in support of the proposed severance.
- Additional work included extension of the scheduled six-hour pumping test in the effort of reaching zero chlorine residual prior to sample collection.

2.0 BACKGROUND

2.1 Site Information

The subject property is an approximate 20.6-hectare parcel of land with approximately 390 metres of frontage along the south side of County Road 19 in Prince Edward County. The proposed severed lot encompasses approximately 0.9 hectares with 90 metres of road frontage along the south side of County Road 19. The property is located approximately 3.0 kilometres north of the Village of Consecon. A site layout plan may be found in Drawing No. 2 in Appendix A.

Ground cover generally consists of open grass fields with coniferous and deciduous trees scattered across the property. Surrounding land use within a 500-metre radius consists primarily of rural residential, agricultural, and vacant forested areas.

2.2 Surficial Soil Conditions

The physiographic area is described as Limestone plains. The surficial geology consists of thin soil overlying Paleozoic bedrock. [1]

Review of local well records showed an overburden thickness of 0 to 1.2 m, overlying limestone bedrock. Records reported the local overburden consisted of topsoil, loam, clay, and gravel.

2.3 Background Geology

Bedrock geology in the study area consists of a stratigraphic sequence of Paleozoic bedrock comprised of limestone, dolostone, shale, arkose, sandstone from the Ottawa Group; Simcoe group and Shadow Lake Formations. [2]

2.4 Local Hydrogeology

Fourteen (14) water well summary records of local wells (within a 500-metre radius of the subject property) were available for review from the MECP online database (see Appendix C). Review of the well records identified six (6) drilled wells intended for domestic household water supply and eight (8) abandoned or incomplete drilled wells due to insufficient water supply. The drilled wells were advanced to depths of approximately 13.4 to 36.6 metres below ground surface (mbgs) and completed within the limestone bedrock. Water was encountered at depths ranging from 3.0 to 30.5 mbgs. Copies of the well records identified in the MECP database can be seen in Appendix C.

Groundwater flow is typically through fractures and joints within the shallow limestone bedrock. Water is typically encountered in fractures and bedding planes in the bedrock formation.

[1] Chapman, L.J. and Putnam, D.F. 1972. Physiography of Southern Ontario. Map 2227.
[2] Ontario Geological Survey. 1991: Bedrock Geology of Ontario, Southern Sheet. Map. 2544.

3.0 WELL CONSTRUCTION

Q Logic Water LTD. (Well Contractor's Licence # 7717) advanced TW1 on June 27, 2025. The well was dug for the purpose of domestic water supply in support of the proposed land severance. The well location is shown in Drawing No. 2 in Appendix A and the well record is included in Appendix B.

The well record for TW1 indicated that the annular space between the concrete casing and native materials was sealed with non-toxic caulking to a depth of approximately 3.0 m below ground surface. The well record for TW1 shows that the concrete casing extends to a depth of approximately 4.7 m. The well casing extends above ground surface approximately 0.63 m.

The well record for TW1 indicated topsoil from surface to 0.3 m, underlain by shale to a depth of 1.5 m, and completed in the limestone bedrock at a depth of 4.7 mbgs. Water was reportedly encountered at a depth of approximately 2.4 m in the limestone bedrock. The well record is in Appendix B.

Visual observations during field work indicated that the well was constructed and maintained to prevent surface water and other foreign materials from entering the well. The height of the casing above grade meets Ontario's Revised Regulation (RRO) 903, Wells, amended to Ontario Regulation (O Reg) 372/07, under the *Ontario Water Resources Act*. The test well location is shown on Drawing No. 2 in Appendix A.

No sources of potential contamination were evident during the site work on the subject property.

We understand that water will be supplied using submersible pump. Pump installation shall be undertaken in accordance with RRO 903 (Section 17).

Copy of the test well record is attached in Appendix B.

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4.0 WATER QUANTITY

4.1 Background

The quantity of groundwater available for the test well was initially investigated through one (1) scheduled 6-hour pumping test in reference with MECP Procedure D-5-5 and The County of Prince Edward's Comprehensive Zoning By-law, as amended. Referencing Government of Canada precipitation data (Belleville weather station), in the fourteen (14) days in June leading up to the pumping test, the area received approximately 3.0 mm of rainfall. On this basis, the pumping test was not undertaken during a period of heavy precipitation. Precipitation data can be found in Appendix F.

Referencing MECP D-5-5 guidelines, the minimum pumping rate per person based on peak demand is 3.75 L/min. Therefore, considering a 3-bedroom home (3 + 1), the minimum pumping rate required would be 15 L/min (3.75 L/min * 4). On this basis, the test well could be pumped at rate 15 L/min for purposes of assessing peak demand and long term well yield. The pumping test was conducted at a rate of 15 L/min for approximately 5.5 hours and subsequently increased to a rate of 30 L/min to 48 L/min for an additional 70 minutes in an effort to purge the remaining chlorine residual.

Bedrock hydrogeological values of transmissivity were calculated from the pumping data by the Jacob method, which assumes the heterogeneous limestone bedrock aquifer is analogous to a homogeneous, confined, porous media aquifer of infinite horizontal extent. Recognizing that the limestone bedrock water bearing unit is likely unconfined, the Jacob method sufficiently estimates the aquifer parameters to assess well hydrogeological conditions.

4.2 Test Well TW1

Test well TW1 is approximately 5.57 metres deep (from top of casing). Prior to the initiation of pumping the static water level was measured to be approximately 2.19 metres from the top of the casing. The water in the well was pumped at a rate of 15 litres/min for a total of 335 minutes, yielding approximately 5,025 litres of water. In an effort to reach zero chlorine residual prior to the sampling event, the pumping rate was subsequently increased to approximately 30 L/min for a total of 40 minutes, then further increased to a rate of approximately 48 L/min for 25 minutes, yielding approximately 2,400 litres of water. In total, approximately 7,425 litres of water were yielded from TW1 in 400 minutes of pumping. Maximum drawdown was manually measured at approximately 0.29 metres over the duration of the test. At the completion of the pumping test, approximately 91% of the total well supply was remaining. Specific capacity calculated over the final 60 minutes of the pumping test was found to be approximately 600 litres/minute/metre. A plot of drawdown versus time shows a logarithmic relationship (see Figure 1 in Appendix D).

Section 4.3.1 of the Ministry of Environment, Conservation and Parks (MECP*) (previously known as the Ministry of Environment)* D-5-5 Procedure, Technical Guideline for Private Wells: Water Supply Assessment requires that water level recovery must be monitored in the test well for the lesser of 95% recovery or 24 hours. Total drawdown over the period of pumping was measured at approximately 0.29 m. Maximum observed recovery was 80% and occurred approximately 10.5-hours following pump shut down. Review of the drawdown and recovery data identified additional drawdown following the 10.5-hour recovery measurement. ASC is of the opinion that recovery measurements in TW1 were subject to daily atmospheric water level fluctuations. Based on the minimal measured drawdown (0.29 m), well supply remaining following pump shut down (91%), and TW1's ability to recover to 80% (i.e. within 0.05 m of the initial static level) 10.5-hours following pump shutdown, the well is sufficiently able to meet peak usage periods, recover and meet the daily requirement for the proposed severance.

The transmissivity (T) after approximately 100 minutes of pumping was calculated to be 2.46×10^{-4} m^2/s. Hydraulic Conductivity (K = T/b), where b = 3.38 m (represents approximate aquifer thickness at time of pumping), was determined to be $K= 3.02 \times 10^{-5}$ m/s. The test well recovery and transmissivity data may be found in Appendix D.

As indicated above and based on the considered number of bedrooms expected (3 + 1), a minimum pumping rate of 15 L/min is required with a resulting water requirement of 1800 litres/day during peak demand. Peak demand (at pumping rate of 15 L/min) was reached approximately 120 minutes into the pumping test, with a measured drawdown of approximately 0.12 m. Additional drawdown recorded over the remainder of the pumping test was 0.17 m. This indicates that the well sufficiently met "peak demand" conditions.

Based on the observations from the drawdown versus time relationship, it is concluded that the long-term yield of TW1 is sufficient to meet normal domestic requirements in reference with the MECP Procedure D-5-5 and The County of Prince Edward's Comprehensive Zoning By-law, as amended.

Drawdown and recovery measurements obtained during the pumping test are presented in Appendix D.

5.0 INTERFERENCE

The effects of interference were monitored during pumping of test well TW1. Neighbouring observation wells were utilized during pumping to assess potential interference. Observation well locations are shown on Drawing No. 2.

5.1 Test Well TW1

Three (3) observation wells, located at 1763 County Road 19 (OW1), 1760 County Road 19 (OW2), and 1734 County Road 19 (OW3) were utilized to assess potential interference during the TW1 pumping test. The observation wells were located approximately 90, 180 and 120 metres horizontal distance from the subject test well. See Table 1 below, for observation well information.

Water levels measured in the observation wells during the TW1 pumping test did not show a positive response during pumping of the test well on June 25, 2025.

Table 1. Test Well – TW1 Neighbouring wells involved in hydrogeological assessment at the subject property.

Observation Well ID	Well type	Observation Well Address	Distance from Test Well (m)
OW1	Dug	1763 County Road 19	90
OW2	Dug	1760 County Road 19	180
OW3	Drilled	1734 County Road 19	120

5.2 Discussion of Results

Potential water quantity problems resulting from mutual well interference are not expected for the test well TW1. A maximum drawdown of 0.02 m was measured in OW3, located approximately 120 metres horizontal distance from the test well. Water level recovery was measured in OW3 during the pumping test. ASC personnel attribute the measured drawdown in OW3 to homeowner water usage during pumping.

In summary, water levels measured in the observation wells during the TW1 pumping test did not show a positive response during pumping of the test well on June 25, 2025. Potential water quantity problems resulting from mutual well interference are not expected for the test well TW1.

On this basis, ASC is of the opinion that the associated measured drawdown is an appropriate estimation of the influence. Based on the observation well measurements during pumping, the adjacent domestic water supply wells will not be significantly influenced by the proposed second detached dwelling unit. Copies of the residential water level measurements recorded during the pumping test are presented in Appendix D.

6.0 WATER QUALITY

A well water sample was collected from the test well on June 25, 2025, during the final hour of the pumping test and stored in a cooler with ice and transported to a Canadian Association of Laboratory Accreditation (CALA) certified laboratory in Kingston, Ontario. Chemical and bacteriological parameter analyses were undertaken in accordance with the MECP Procedure D-5-5 and compared to the Ontario Drinking Water Quality Objectives (ODWO).

Results of analyses for the test well (TW1) are presented in the following section.

6.1 Test Well TW1

Bacteriological parameter analyses met the MECP Procedure D-5-5 and ODWO for Fecal Coliform (0 cfu/100ml), E. Coli (0 cfu/100ml), and Total Coliform (0 cfu/100ml) in the sample collected on June 25, 2025.

Elevated health parameter sodium was detected in the groundwater sample collected on June 25, 2025. The health-related limit for sodium is 20 mg/L and the aesthetic objective is 200 mg/L. The sample result for TW1 showed a sodium concentration of 48.2 mg/L. The health-related limit for sodium is a “warning level” and where this level is exceeded the local Medical Health Officer shall be notified in order to alert individuals with relevant medical conditions. The measured sodium concentration in the test well is within the aesthetic objective of 200 mg/L.

The health-related limit for Turbidity is 1 NTU (Nephelometric Turbidity Unit) and the ODWO level is 5 NTU. The laboratory sample result collected on June 25, 2025, showed 3.2 NTU. We believe that handling time prior to analyses may have resulted in precipitation in solution for the laboratory analyses result. We believe turbidity will not be a concern with well development. As a precaution, filtration is effective to manage turbidity.

Remaining health related parameters (nitrite, and nitrate) met the MECP Procedure D-5-5 and ODWO.

The operational guideline for hardness is 80-100 mg/L and the ODWO level is 500 mg/L. Sample analyses for TW1 identified hardness of 254 mg/L. The ODWO level for Total Dissolved Solids (TDS) is 500 mg/L. The level for TDS was measured at 356 mg/L. Hardness and TDS in water usually occur when elevated concentrations of calcium, magnesium, and chlorides are present in water. Elevated concentrations of hardness and TDS may result in scale build-up and mineral deposits on hot water heaters and plumbing fixtures, corrosion or encrustation of metal fixtures or appliances. Hard water can be readily treated through ion exchange water softening.

The ODWO concentration for Dissolved Organic Carbon (DOC) is 5.0 mg/L and the maximum concentration considered reasonably treatable is 10.0 mg/L. Sample analyses collected on June 25, 2025, showed a concentration of 6.0 mg/L. Elevated concentrations of DOC can be readily treated through carbon filter treatment systems.

The ODWO concentration for Manganese is 0.05 mg/L and the maximum concentration considered reasonably treatable is 1.0 mg/L. Sample analyses identified a concentration of 0.123 mg/L for Manganese. Elevated concentrations of Manganese may cause staining of plumbing fixtures and laundry. Manganese can be readily treated through ion exchange water softeners or greensand filters.

To ensure safe drinking water is provided to future residents, we recommend contracting a professional water quality specialist to confirm heath related and aesthetic treatment options. At a minimum, we recommend disinfection (i.e. UV light) of the water source to ensure bacteriological free groundwater for consumption purposes.

Results of laboratory sample analyses are presented in Appendix E.

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7.0 SEWAGE SYSTEM SERVICES

ASC understands that the proposed dwelling on the severed lands is likely to consist of one (1) 3-bedroom rural residential dwelling with associated private well and septic service. As per the Ontario Building Code (OBC), the design daily sewage flow for a 3-bedroom dwelling would be approximately 1,600 litres per day.

At the time of this assessment, ASC understands no existing sewage disposal system is present on the proposed severed lands. Furthermore, considering site conditions, ASC understands that the proposed 3-bedroom dwelling is most likely to be serviced with a raised bed Class 4 Sewage System. The OBC Minimum Clearance Distances for Class 4 Sewage Systems have been considered and indicated on the attached Wastewater System Concept Plan, see Figure 3 Appendix A. With the horizontal constraints applied, there exists a suitable area of approximately 5,644 m^2 in which a Class 4 Leaching Bed wastewater treatment system could be completed. Considering a design sewage flow of 1,600 litres per day and assuming imported septic sand with a percolation rate of 10 minutes/cm, a conventional leaching bed approximately 128 m^2 in area would be a viable option to service the proposed 3-bedroom residential unit on the severed lands.

On this basis, the proposed severed lands have sufficient space to accommodate a viable septic system. To ensure the most optimal septic design is undertaken at the subject property, we recommend contracting a professional septic design specialist to confirm servicing options for the subject property.

Groundwater samples were collected from the existing on-site dug well. Well water chemistry results from test well TW1 showed Nitrate (0.43 mg/L) and Nitrite (<0.05 mg/l) concentrations, below MECP health related parameters. As part of the assessment for the residential development a Nitrate Assessment was undertaken in reference with The County of Prince Edward's Comprehensive Zoning By-law (Servicing Report), as amended, and with reference to the MECP Procedure *D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment* guidelines.

In the case of Nitrate, the Ontario Drinking Water Standard of 10 mg/L of Nitrate-Nitrogen is used as an indicator of groundwater impact potential. Nitrate attenuation at the down gradient boundary would be calculated as follows:

Nitrate Attenuation

A_p – Pervious Area of attenuation zone, m.

Note there are no impervious areas on the attenuation zone, ASC understands structures will shed water to the ground surface with subsequent infiltration.

i – infiltration, m/year

I – Available infiltration, L/day

C – Concentration of Nitrate at the Downgradient Receptor

C_{BK} – Background Concentration of Nitrate = 0.43 mg/L (TW1)

N_L = Additional Nitrate Loading, g

$$I = \frac{(A_p)(i)\left(1000\frac{L}{m^3}\right)}{365\frac{days}{year}}$$

$$I = \frac{(9000)(0.25)\left(1000\frac{L}{m^3}\right)}{365\frac{days}{year}}$$

$$I = 6164.38$$

$$C = C_{BK} + \frac{40g_L}{1000L + I}$$

$$C = 0.43mg/L + \frac{40}{1000L + 6164.38}$$

$$C = 0.43\ mg/L + 5.58\ mg/L$$

$$C = 6.01\ mg/L$$

Based on the above assessment a Nitrate concentration at the down gradient receptor has been calculated to be less than 10 mg/L. Therefore, on this basis the Nitrate loading will be sufficiently attenuated at the down gradient receptor, meeting the requirement of D-5-4 and Section 3.0 of the PEC Servicing Report Guideline.

8.0 CONCLUSIONS AND RECOMMENDATIONS

- Based on the considered number of bedrooms expected (3 + 1), a minimum pumping rate of 15 L/min is required with a resulting water requirement of 1,800 litres/day during peak demand. Peak demand (15 L/min) was reached approximately 120 minutes into the pumping test, with a measured drawdown of approximately 0.12 m. Additional drawdown recorded over the remainder of the pumping test was 0.17 m. This indicates that the well sufficiently met “peak demand” conditions.

- The water in the well was pumped at a rate of 15 litres/min for a total of 335 minutes, yielding approximately 5,025 litres of water. In an effort to reach zero chlorine residual prior to the sampling event, the pumping rate was subsequently increased to approximately 30 L/min for a total of 40 minutes, then further increased to a rate of approximately 48 L/min for 25 minutes, yielding approximately 2,400 litres of water. In total, approximately 7,425 litres of water were yielded from TW1 in 400 minutes of pumping. Maximum drawdown was manually measured at approximately 0.29 metres over the duration of the test. At the completion of the pumping test, approximately 91% of the total well supply was remaining indicating the well is sufficiently able to supply peak usage periods and meet the daily requirement for the proposed severance.

- Bacteriological parameter analyses in the sample collected on June 25, 2025, met the MECP Procedure D-5-5 and ODWO for Fecal Coliform (0 cfu/100ml), E. Coli (0 cfu/100ml), and Total Coliform (0 cfu/100ml).

- Elevated health parameter sodium was detected in the groundwater sample collected on June 25, 2025. The health-related limit for sodium is 20 mg/L and the aesthetic objective is 200 mg/L. The sample result for TW1 showed a sodium concentration of 48.2 mg/L. The health-related limit for sodium is a “warning level” and where this level is exceeded the local Medical Health Officer shall be notified in order to alert individuals with relevant medical conditions. The measured sodium concentration in the test well is within the aesthetic objective of 200 mg/L.

- The health-related limit for Turbidity is 1 NTU (Nephelometric Turbidity Unit) and the ODWO level is 5 NTU. The laboratory sample result collected on June 25, 2025, showed 3.2 NTU. We believe that handling time prior to analyses may have resulted in precipitation in solution for the laboratory analyses result. We believe turbidity will not be a concern with well development. As a precaution, filtration is effective to manage turbidity.

- Remaining health related parameters (nitrite, and nitrate) met the MECP Procedure D-5-5 and ODWO.

- Results of the groundwater identified elevated aesthetic parameter hardness, TDS, DOC and manganese in the test well. These are readily treatable.

- To ensure safe drinking water is provided to future residents, we recommend contracting a professional water quality specialist to confirm heath related and aesthetic treatment options. At a minimum, we recommend disinfection (i.e. UV light) of the water source to ensure bacteriological free groundwater for consumption purposes.

- Based on results of the pumping tests and monitoring results of neighbouring residential well water supplies, water quantity problems resulting from mutual well interference is not expected.

- Based on field observation and visual inspection by ASC personnel, TW1 appears to meet the present requirements of O. Reg 903 in order to ensure continued good quality groundwater for consumption purposes.

- No land and water use conflicts were identified in an evaluation of the surrounding properties within 500 metres of the subject property. Surrounding land use within a 500-metre radius consists primarily of rural residential, agricultural, and forested lands.

- Based on the nutrient assessment, a Nitrate concentration at the down gradient receptor has been calculated to be less than 10 mg/L. Therefore, on this basis the Nitrate loading will be sufficiently attenuated at the down gradient receptor, meeting the requirement of D-5-4 and Section 3.0 of the PEC Servicing Report Guideline.

- Reviewing the existing site and local lithology, and taking local hydrogeological characteristics into account, well construction details and the results from groundwater chemistry; the limestone bedrock groundwater resource has not been significantly impacted from surface infiltration sources. Results indicate that sufficient long-term water supply to support the proposed severance.

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9.0 LIMITATIONS

ASC Environmental (ASC) was retained by Mr. *Sorin Tudor* (Client) to undertake a Hydrogeological Assessment is support of a proposed land severance at the subject property, located at 1763 County Road 19, Consecon, Ontario.

The scope of work for this assessment included:

- Undertaking a minimum six-hour pumping test, with recovery on the test well.
- Monitoring adjacent residential wells during pumping, to assess potential interference.
- Collection of well water samples, following field confirmation of zero residual chlorine and within the last hour of the pumping test.
- Submission of samples to a certified laboratory for the required suite of parameters.
- Additional well development and associated water sampling for bacteriological parameters.
- Preparation of a hydrogeological assessment report, addressing well construction, water quality and quantity, and potential interference.

The findings reported in this document are based on the tasks completed by ASC under the mutually agreed upon scope of work. Professional judgement, experience with similar investigations, and available data collected within the scope of work form the basis for this report. ASC has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were inaccurate, concealed, or not fully disclosed at the time of investigation.

ASC Environmental Inc. 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.

The nature of the investigation makes it possible that contrary conditions may be identified due to seasonal or meteorological changes that are beyond the control of ASC. Groundwater sampling results are current at the time of sampling only, seasonal conditions and future changes to the property may influence groundwater quality. The passage of time affects the information provided in the report. Environmental conditions of a Site can change. Opinions relating to the Site conditions are based upon information that existed at the time that the conclusions were formulated. ASC does not certify or warrant the future environmental/hydrogeological status of the property.

This document has been prepared by ASC Environmental Inc. for the sole use of *Mr. Sorin Tudor* and *assignees* to assess hydrogeological conditions related to the subject property. Unauthorized reuse of this document for other purposes, or by any other party,

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Yours truly,
ASC Environmental Inc.

Tanner Cook, B.A.
Environmental Technical Specialist

Reviewed by:

Thomas Asma, B.ASc., P. Eng. QP_{ESA}
Project Engineer

APPENDIX A
Drawing No. 1 - 3

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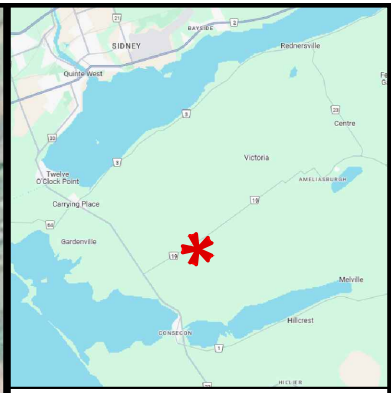

LEGEND

SUBJECT PROPERTY LOCATION

APPROXIMATE LOCATION OF SUBJECT PROPERTY

DRAWING TITLE
Site Location Plan

FIGURE NO.	DRAWN BY
01	T. Cook

PROJECT
Hydrogeological Assessment

CLIENT
Sorin Tudor

LOCATION
1763 County Road 19, Prince Edward County, ON

PROJECT NO.	SCALE:
ASC-1025	0 METRES 610
DATE	
13-Aug-2025	

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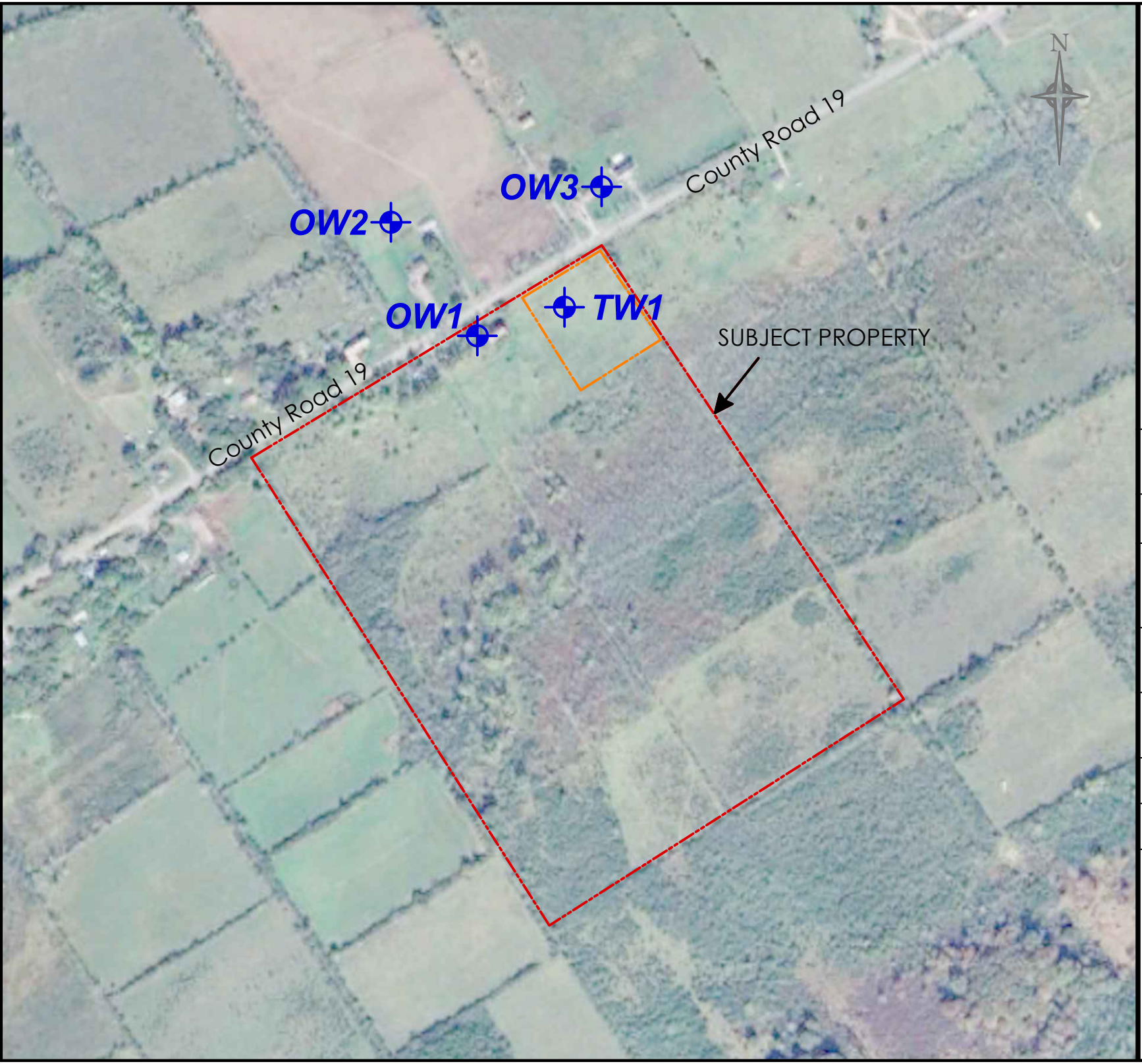

LEGEND

- APPROXIMATE LOCATION OF SUBJECT PROPERTY
- APPROXIMATE SEVERED PROPERTY BOUNDARY
- TW1 — APPROXIMATE LOCATION OF TEST WELL
- OW1 — APPROXIMATE LOCATION OF NEIGHBOURING OBSERVATION WELLS

DRAWING TITLE
Site Layout Plan

FIGURE NO.	DRAWN BY
02	J.Braznick

PROJECT
Hydrogeological Assessment

CLIENT
Sorin Tudor

LOCATION
1763 County Road 19, PEC, ON

PROJECT NO.	SCALE:
ASC-1025	0 METRES 100
DATE	
13-Aug-2025	

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LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE SEVERED PROPERTY BOUNDARY
- APPROXIMATE 3 METRE PROPERTY LINE SETBACK PER OBC
- APPROXIMATE 30 METRE DUG WELL SETBACK PER OBC
- APPROXIMATE AREA AVAILABLE FOR CLASS 4 SEWAGE SYSTEM
- TW1 — APPROXIMATE LOCATION OF TEST WELL
- OW1 — APPROXIMATE LOCATION OF OBSERVATION WELL

DRAWING TITLE
Wastewater System Concept Plan

FIGURE NO.	DRAWN BY
03	T. Cook

PROJECT
Hydrogeological Assessment

CLIENT
Sorin Tudor

LOCATION
1763 County Road 19, PEC, ON

PROJECT NO.	SCALE:
ASC-1025	0 METRES 20
DATE	
13-Aug-2025	

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APPENDIX B
Test Well Record

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Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (Place Sticker and/or Print Below): A372065

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
SORIN	TUDOR	Sorin.atudor3@gmail.com	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1763 COUNTY ROAD 19	CONSECON	ONTARIO	K0K1T0	6472310006

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1763 COUNTY ROAD 19			

County/District/Municipality	City/Town/Village	Province	Postal Code
PRINCE EDWARD COUNTY	CONSECON	Ontario	K0K1T0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	298011	4878047		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BROWN	TOPSOIL			0	1
GREY	SHALE		LOOSE	1	5
GREY	LIMESTONE		HARD PACKED	5	15.5

(measurements taken from top lid)

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	10	NON TOXIC CAULKING	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
36	CONCRETE	4	+2.5	-15.5

Construction Record - Screen

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

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

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☑ Fresh ☑ Untested ☐ Other, specify
8		
	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify
	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

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

Results of Well Yield Testing

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

If pumping discontinued, give reason: TEST COMPLETE

Pump intake set at (m/ft): 17

Pumping rate (l/min / GPM): 90

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 15.7

If flowing give rate (l/min/GPM): 0

Recommended pump depth (m/ft): 17

Recommended pump rate (l/min/GPM): 10 gpm Pump

Well production (l/min/GPM): 26 GPM

Disinfected? ☑ Yes ☐ No

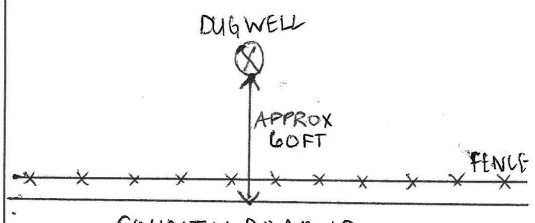
Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	7.2		15.7
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

THIS IS A DUG WELL WITH A FLOW RATE OF 26 GPM APPROX. PRESERVE OF 4000GL

Map of Well Location

Please provide a map below following instructions on the back.

*SEE UTM COORDINATES FOR MORE ACCURATE LOCATION



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Q-LOGIC WATER LTD	7117

Business Address (Street Number/Name)	Municipality
352 MARSH ROAD	BELLEVILLE

Province	Postal Code	Business E-mail Address
ONT	K8N4Z7	quigleyinspects@gmail.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138585816	QUIGLEY, JAMIE

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3913		2025 06 27

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	Y Y Y Y M M D D	2025 06 27

Ministry Use Only

Audit No. Z422247

Received

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Ministry's Copy

APPENDIX C
MECP Water Well Summary Records

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

UTM 18 Z 297706 E
5 R 4877742 N
Elev. 567 R 0132210
Basin 24

31C4A

53 No. 384

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Prince Edward Township, Village, Town or City Ameliasburg

Con. 3 Lot 102 Date completed 31 (day) Aug. (month) 1964 (year)

[redacted] dress R.R. 1 Carrying Place

Casing and Screen Record

Inside diameter of casing 6¼"
Total length of casing 4'
Type of screen None
Length of screen
Depth to top of screen
Diameter of finished hole 6"

Pumping Test

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

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Loam	0	3		
Limestone	3	120	DRY	

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

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

Drilling or Boring Firm H.E. Jones & Son

Address R.R. 2 Trenton

Licence Number 1429

Name of Driller or Borer G.M. Jones

Address

Date Jan. 12, 1964

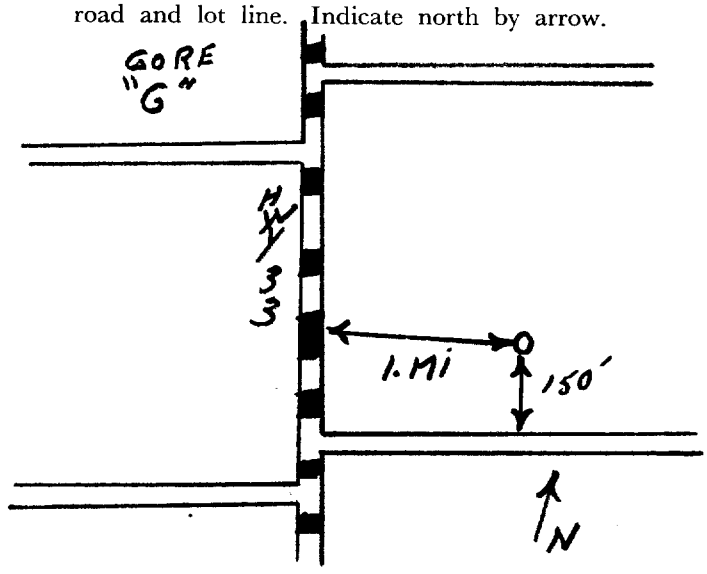
H E Jones
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



UTM 18 Z 297932 E
Con 5th 4877849 N
Elev. 5th R 03210
Lot 102
Basin 24

31C4A

WATER RESOURCES DIVISION
53 No. 385
MAY 1966
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Prince Edward
Township, Village, Town or City Ameliasburg
Con. 2 Lot ~~103~~ 102
Date completed 21 (day) 4 (month) 1966 (year)
Address Carrying Place R.R. 1

[redacted]

Casing and Screen Record

Inside diameter of casing 6¼"
Total length of casing 4'
Type of screen none
Length of screen none
Depth to top of screen none
Diameter of finished hole 6"

Pumping Test

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

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay & Gravel	0'	4'		
Soft Limestone	4'	135'	dry	dry

For what purpose(s) is the water to be used?
DA4 Domestic (farm)
Is well on upland, in valley, or on hillside? upland
Drilling or Boring Firm Thos Donaldson
Cloverleaf Dr.
Address Belleville 5

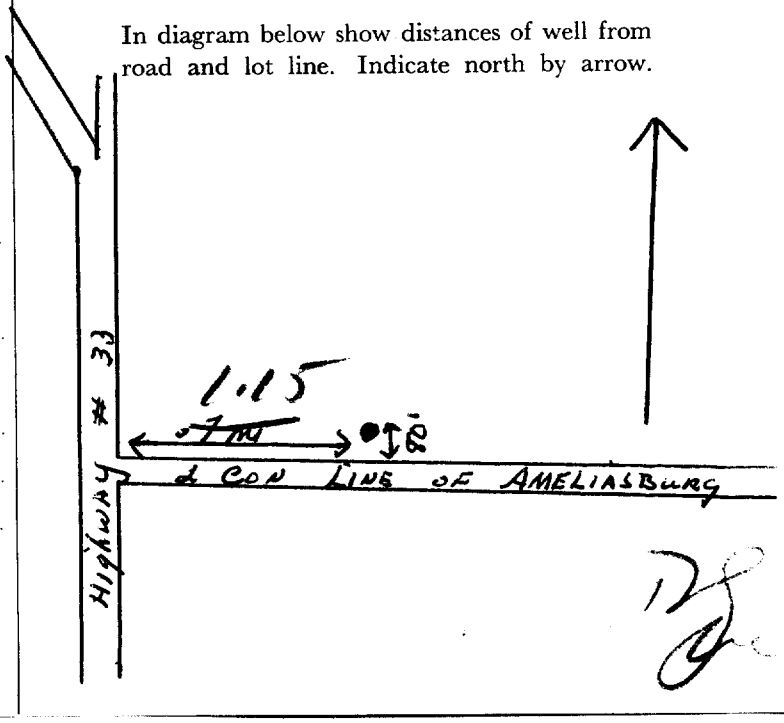
Licence Number 1990
Name of Driller or Borer Flora Donaldson
Address Belleville R.R. 5
Date April 30th. 1966
Flora Donaldson
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



UTM 18 Z 297930 E
Co 5 HI 4877855 N
Elev. 3 K 0 3 2 0

31C4A

WATER RESOURCES DIVISION
MAY 53 No 1966

386

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 24
County or District Prince Edward
Township, Village, Town or City Amelia sburg
Con. 2 Lot ~~105~~ 102
Date completed 22 (day) 4 month 1966 year)
Address Carrying Place R.R 1

Casing and Screen Record

Inside diameter of casing 6¼"
Total length of casing 4'
Type of screen none
Length of screen none
Depth to top of screen none
Diameter of finished hole 6"

Pumping Test

Static level 6'
Test-pumping rate 3 G.P.M.
Pumping level dry
Duration of test pumping 2 hrs
Water clear or cloudy at end of test clear
Recommended pumping rate 2 G.P.M.
with pump setting of 46' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay & Gravel	0'	4'		
Brown Limestone	4'	25'		
Soft Grey Limestone	25'	50'	12'	Fresh

For what purpose(s) is the water to be used?
Domestic
Is well on upland, in valley, or on hillside? valley
Drilling or Boring Firm Thos Donaldson
Cloverleaf Dr.
Address Belleville 5

Licence Number 1990
Name of Driller or Borer Flora Donaldson
Address Belleville R.R. 5
Date April 30th. 1966

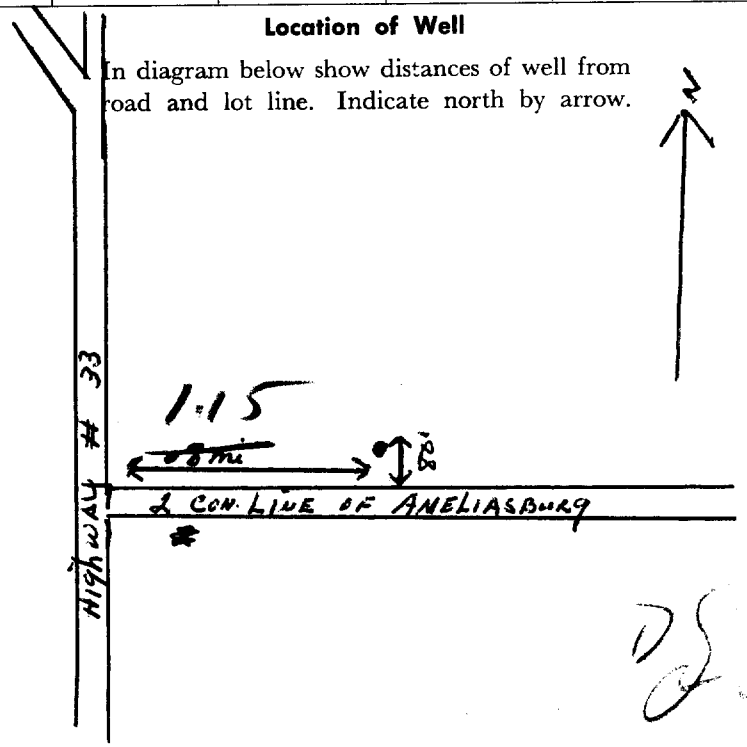
Thos Donaldson
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



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WATER WELL RECORD

Ontario

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11 — 5302870 — MUNICIP. — CON.

COUNTY OR DISTRICT: Prince Edward

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Hallowsburg

LOT: 3

CON.: 102

OWNER (SURNAME FIRST): [redacted]

ADDRESS: RR#1 Consecon Ontario

DATE COMPLETED: DAY 14 MO. Oct YR. 74

21 — UTM — ZONE — EASTING — NORTHING — RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown			Top Soil	0	1
Grey			Shale Rock	1	6
Grey			Limestone	6	65

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
11 = 40	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
8	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	10
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 1 GPM

DURATION OF PUMPING: 6 HOURS ___ MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
9 FEET	65 FEET	65 FEET	65 FEET	65 FEET	65 FEET

IF FLOWING, GIVE RATE: ___ GPM

PUMP INTAKE SET AT: 63 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

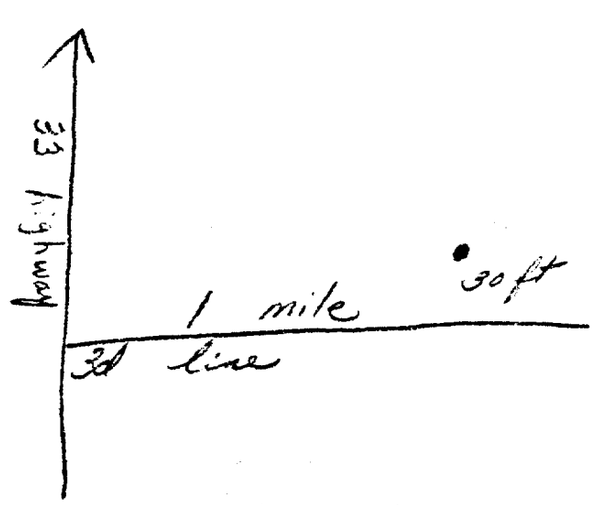
RECOMMENDED PUMP SETTING: 63 FEET

RECOMMENDED PUMPING RATE: 1 GPM

___ GPM / FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Ken Rare Well Drilling — LICENCE NUMBER: 2533

ADDRESS: RR#1 Consecon Ontario

NAME OF DRILLER OR BORER — LICENCE NUMBER

SIGNATURE OF CONTRACTOR: Kenneth Rare

SUBMISSION DATE: DAY 15 MO. Oct YR 74

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR — DATE RECEIVED

DATE OF INSPECTION — INSPECTOR

REMARKS: P — WI — CSS.ES

FORM 7

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WATER WELL RECORD

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11 | 5302870 | MUNICIP. 53001 | CON. ON | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Prince Edward	Amelias burg	2	102

OWNER (SURNAME FIRST) [redacted] | ADDRESS RR#1 Consecon Ontario | DATE COMPLETED DAY 14 MO. 09 YR. 74

77844 | 4 | 335 | 4 | 24 | MAR 02, 1977 | 250

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown			Top Soil	0	1
Grey			Shale Rock	1	6
Grey			Limestone	6	65

31 | 0001602 | 0006217 | 0065215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
011 46	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
0040	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
08	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0010
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER | PUMPING RATE: 0001 GPM | DURATION OF PUMPING: 06 HOURS 00 MINS

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
009 FEET	065 FEET	065 FEET	065 FEET	065 FEET	065 FEET

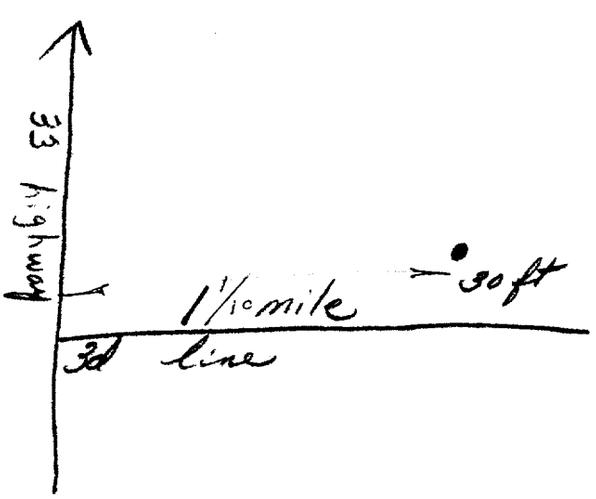
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: 63 FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 063 FEET | RECOMMENDED PUMPING RATE: 0001 GPM

000.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 9777

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56: 01 — 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 57: 1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Ken Hare Well Drilling | LICENCE NUMBER: 2553

ADDRESS: RR#1 Consecon Ontario

NAME OF DRILLER OR BORER | LICENCE NUMBER

SIGNATURE OF CONTRACTOR: Kenneth Hare | SUBMISSION DATE: DAY 15 MO. Oct YR. 74

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 2553 | DATE RECEIVED 63-68: 10 74

DATE OF INSPECTION | INSPECTOR

REMARKS:

P DBDW

WI

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WATER WELL RECORD

31 C/4a

Ontario

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11 — 5302989 — MUNICIP. 53001 — CON. CON 02

COUNTY OR ~~DISTRICT~~: PRINCE EDWARD

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Ameliasburgh

CON., BLOCK, TRACT, SURVEY, ETC.: 2

LOT: 102 101

[redacted] R#1 CONSEC ON ONT

DATE COMPLETED: DAY 28 MO. 06 YR. 74

UTM ZONE 17 — 0377800 — RC. 4 — ELEVATION 0332 — RC. 4 — BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	gravel	packed	0	3
Grey	limestone		layered cemented	3	125

31 — 0003605111179 0125211574 60

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
14-17	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
18-21	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
22-25	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
26-29	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
10-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0010
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		10	0125
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 10: 1 ☐ PUMP 2 ☐ BAILER

PUMPING RATE 11-14 GPM — DURATION OF PUMPING 15-16 HOURS 17-18 MINS

STATIC LEVEL 19-21 FEET	WATER LEVEL END OF PUMPING 22-24 FEET	WATER LEVELS DURING 25: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES 26-28 FEET	30 MINUTES 29-31 FEET	45 MINUTES 32-34 FEET	60 MINUTES 35-37 FEET

IF FLOWING, GIVE RATE — GPM

PUMP INTAKE SET AT — FEET

WATER AT END OF TEST 42: 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP

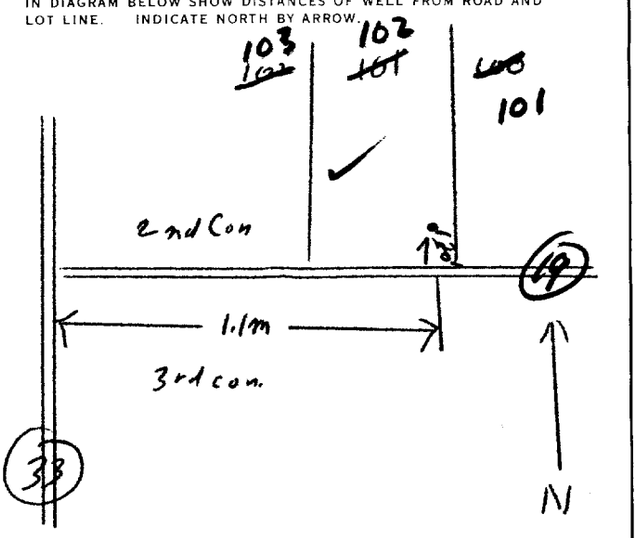
RECOMMENDED PUMP SETTING 43-45 FEET

RECOMMENDED PUMPING RATE 46-49 GPM

50-53 — GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 9777

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 5

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

WATER USE 55-56

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

METHOD OF DRILLING 57: 4

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

CONTRACTOR

NAME OF WELL CONTRACTOR: McCLENNON DRILLING LTD — LICENCE NUMBER: 3516

ADDRESS: WELLINGTON ONT

NAME OF DRILLER OR BORER: Kenneth McClennon — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Kenneth McClennon — SUBMISSION DATE: DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 3516 — DATE RECEIVED 63-68: 040275 — 69

DATE OF INSPECTION — INSPECTOR

REMARKS:

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT COPY

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

31C/4a

Ontario

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

11 | 5302990 | MUNICIP. 53001 | CON. CON 02

COUNTY OR DISTRICT: PRINCE EDWARD | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Amelias burgh | CON., BLOCK, TRACT, SURVEY, ETC.: 2 | LOT: 10A

[redacted] P#1 CONSECON ONT. | DATE COMPLETED: DAY 29 MO 06 YR 74

UTM ZONE | EASTING 377760 | RC 4 | ELEVATION 0320 | RC 4 | BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	gravel	packed [redacted] cemented	0	3
Grey	limestone		layered cemented	3	125

31 0003605111791 012521574160

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
08	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	[redacted]
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		[redacted]	50
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN (FEET)

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER | PUMPING RATE: GPM | DURATION OF PUMPING: HOURS MINS

STATIC LEVEL (FEET)	WATER LEVEL END OF PUMPING (FEET)	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES (FEET)	30 MINUTES (FEET)	45 MINUTES (FEET)	60 MINUTES (FEET)

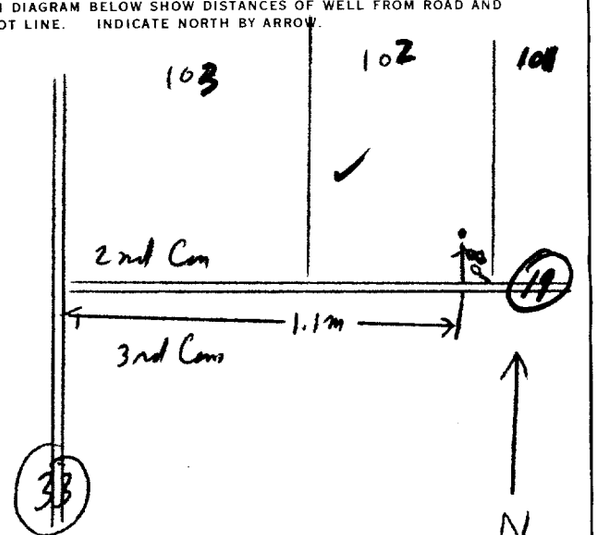
IF FLOWING, GIVE RATE (GPM) | PUMP INTAKE SET AT (FEET) | WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP | RECOMMENDED PUMP SETTING (FEET) | RECOMMENDED PUMPING RATE (GPM)

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 9777

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 5

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

WATER USE 55-56

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

METHOD OF DRILLING 57: 4

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

CONTRACTOR

NAME OF WELL CONTRACTOR: McCLENNON DRILLING LTD | LICENCE NUMBER: 3576

ADDRESS: WELLINGTON ONT.

NAME OF DRILLER OR BORER: Kenneth McClennon. | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Kenneth W McClennon | SUBMISSION DATE: DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 3516 | DATE RECEIVED 63-68: 040275

DATE OF INSPECTION | INSPECTOR

REMARKS:

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

31 C/4a

Ontario

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

11 — 5303022 — MUNICIP. 53001 — CON. C4N 03

COUNTY OR DISTRICT: PRINCE EDWARD

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Amelias burgh.

CON., BLOCK, TRACT, SURVEY, ETC.: E 3

LOT: 102

[redacted] P#1 CARRYING PLACE, Ont.

DATE COMPLETED: DAY 23 MO. 01 YR. 74

UTM ... 377680 — RC 4 — ELEVATION 0318 — RC 4 — BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	gravel	packed	0	3
Grey	limestone		layered	3	40

31 — 0003605111179 — 0040215741

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
08"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0010
08"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		10	0040
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER — PUMPING RATE GPM. — DURATION OF PUMPING ____ HOURS ____ MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 10 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET	FEET	FEET	FEET	FEET

1 ☐ PUMPING 2 ☐ RECOVERY

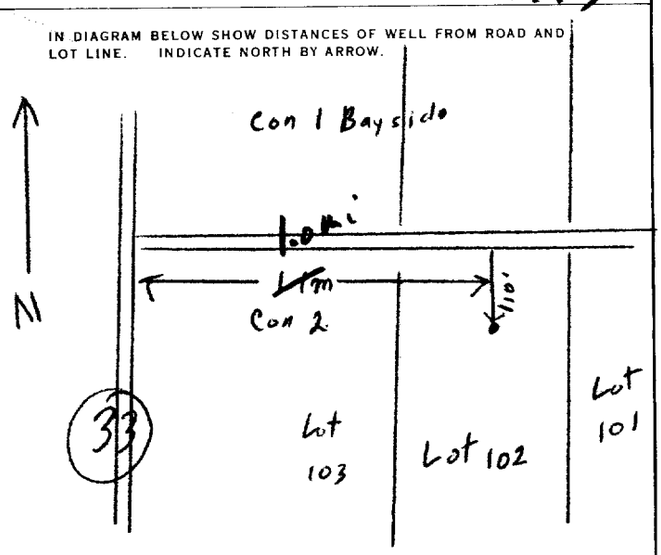
IF FLOWING, GIVE RATE ____ GPM — PUMP INTAKE SET AT ____ FEET — WATER AT END OF TEST 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE ☐ SHALLOW ☐ DEEP — RECOMMENDED PUMP SETTING ____ FEET — RECOMMENDED PUMPING RATE ____ GPM

____ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 9777

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 5

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

WATER USE

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

METHOD OF DRILLING 4

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

CONTRACTOR

NAME OF WELL CONTRACTOR: McCLENNON DRILLING LTD — LICENCE NUMBER: 3516

ADDRESS: WELLINGTON ONT.

NAME OF DRILLER OR BORER: KENNETH McCLENNON — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Kenneth W McClennon — SUBMISSION DATE: DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 58 — CONTRACTOR 59-62: 3516 — DATE RECEIVED 63-68: 070375

DATE OF INSPECTION — INSPECTOR

REMARKS:

P — WR

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

31C 4a

Ministry of the Environment
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

(11) 5304039 MUNICIP. 53001 CON. CON 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON ~~BLOCK, TRACT, SURVEY, ETC~~	LOT 25-27
[redacted] liasburgh		2	102

R#1, Consecon, Ont.

DATE COMPLETED: DAY 14 MO 08 YR 80

87699 | RC 4 | ELEVATION 0320 | RC 4 | BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	clay	gravel	packed	0	3
grey	limestone		layered cemented	3	120

31 0003605 1179 0020 1574 60

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0100	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
08	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0010
08	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		10	0120
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

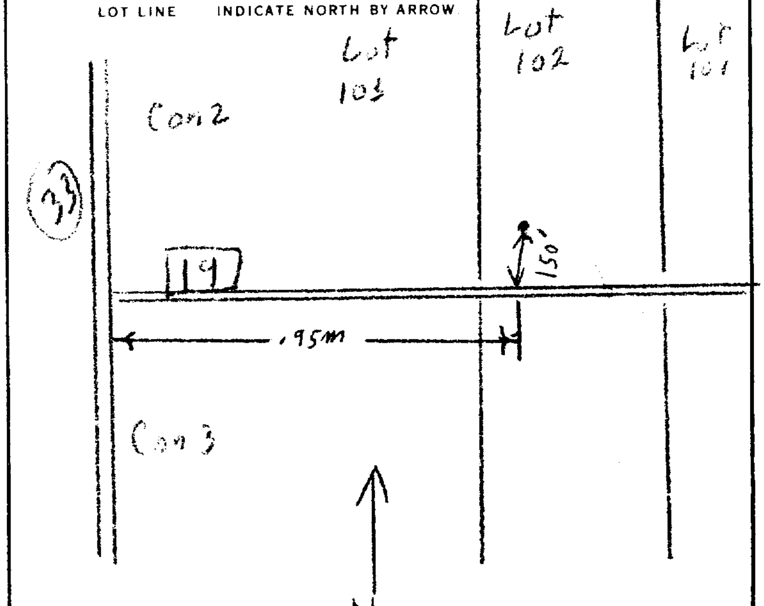
DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE	0001 GPM
DURATION OF PUMPING	01 HOURS 00 MINS
STATIC LEVEL	015 FEET
WATER LEVEL END OF PUMPING	120 FEET
WATER LEVELS DURING	1 ☐ PUMPING 2 ☒ RECOVERY
15 MINUTES	115 FEET
30 MINUTES	110 FEET
45 MINUTES	105 FEET
60 MINUTES	100 FEET
IF FLOWING, GIVE RATE	GPM
PUMP INTAKE SET AT	FEET
WATER AT END OF TEST	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING	117 FEET
RECOMMENDED PUMPING RATE	0001 GPM

LOCATION OF WELL

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



DRILLERS REMARKS

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

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: McClennon Drilling Ltd. — LICENCE NUMBER: 3516
ADDRESS: Wellington, Ont.
NAME OF DRILLER OR BORER: Ken McClennon — LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Kenneth W. McClennon — SUBMISSION DATE: DAY ___ MO. ___ YR. ___

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 3516 — DATE RECEIVED: 240481
DATE OF INSPECTION — INSPECTOR
REMARKS:

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FORM NO. 0506-4-77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 | 5305717 | MUNICIP 53001 | CON. CON 02

COUNTY OR DISTRICT: [redacted] | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: ELIASBURG | CON., BLOCK, TRACT, SURVEY, ETC: CON 2 | LOT: 102

[redacted] #1 CONSECON

DATE COMPLETED: DAY 14 MO 12 YR 91

ELEVATION | ELEVATION RC. | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	CLAY	STONES		0	5
GREY	SHALE		BROKEN	5	11
GREY	LIMESTONE		~~BROKEN~~	11	90

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
15-18	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
20-23	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
25-28	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
30-33	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

DRY

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
10-11	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	12		13-16
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	19		20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	26		27-30

CASING REMOVED

SCREEN

SIZE(S) OF OPENING (SLOT NO.) 31-33	DIAMETER 34-38 INCHES	LENGTH 39-40 FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN 41-44 FEET	45

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 10: 1 ☐ PUMP 2 ☐ BAILER

PUMPING RATE 11-14 GPM | DURATION OF PUMPING 15-16 HOURS 17-18 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING 25: 1 ☐ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
19-21 FEET	22-24 FEET	26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET

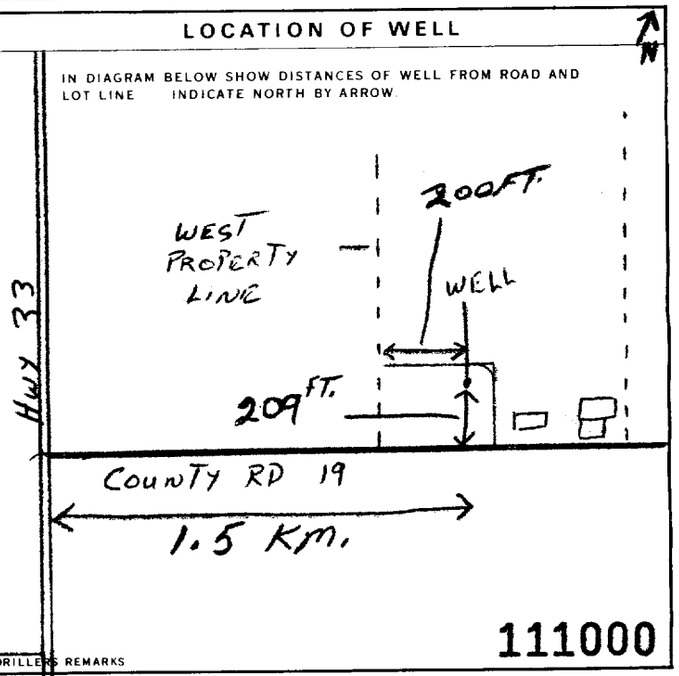
DRY

IF FLOWING, GIVE RATE 38-41 GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST 42: 1 ☐ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING 43-45 FEET	RECOMMENDED PUMPING RATE 46-49 GPM

50-53

LOCATION OF WELL

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



DRILLER'S REMARKS

111000

FINAL STATUS OF WELL 54: 1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☒ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING

WATER USE 55-56: 1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING ☐ OTHER DRY 9 ☐ NOT USED

METHOD OF CONSTRUCTION 57: 1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: MANSE DONALDSON WELL DRILLING | WELL CONTRACTOR'S LICENCE NUMBER: 1805

ADDRESS: RR #5 BELLEVILLE ONT.

NAME OF WELL TECHNICIAN: KEN DONALDSON | WELL TECHNICIAN'S LICENCE NUMBER: T-0019

SIGNATURE OF TECHNICIAN/CONTRACTOR: Ken Donaldson | SUBMISSION DATE: DAY 16 MO 12 YR 91

OFFICE USE ONLY

DATA SOURCE 58 | CONTRACTOR 59-62: 1805 | DATE RECEIVED 63-68: JAN 10 1992

DATE OF INSPECTION | INSPECTOR

REMARKS

OSS.ES

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FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 — 5305718 — MUNICIP. 53001 — CON. CON — 02

COUNTY OR DISTRICT: [redacted] — TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [redacted]LIMSBURG — CON. BLOCK, TRACT, SURVEY, ETC: CON. 2 — LOT: 12

[redacted] #1 CONSECON

DATE COMPLETED: DAY 23 MO 12 YR 91

RC. — ELEVATION — RC. — BASIN CODE — II — III — IV

21

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	CLAY	STONE		0	4
GREY	SHALE		BROKEN	4	10
GREY	LIMESTONE			10	44

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10	1 ☒ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
28	1 ☒ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	10
6	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		10	44
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

MATERIAL AND TYPE: — DEPTH TO TOP OF SCREEN FEET:

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER — PUMPING RATE: 4 GPM — DURATION OF PUMPING: 1 HOURS 00 MINS

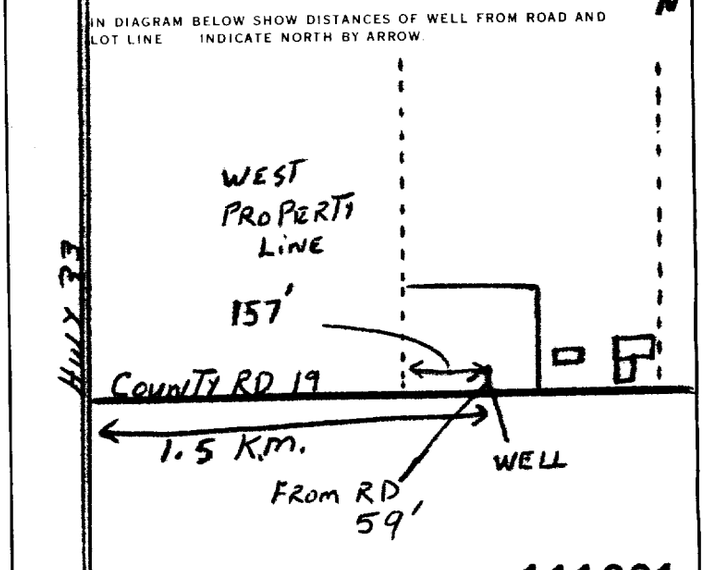
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
8 FEET	41 FEET		FEET	FEET	FEET	FEET

IF FLOWING GIVE RATE: GPM — PUMP INTAKE SET AT: 42 FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING: 42 FEET — RECOMMENDED PUMPING RATE: 4 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 111001

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

CONTRACTOR

NAME OF WELL CONTRACTOR: MANSE DONALDSON WELL DRILLING — WELL CONTRACTOR'S LICENCE NUMBER: 1805

ADDRESS: RR #5 BELLEVILLE

NAME OF WELL TECHNICIAN: KEN DONALDSON — WELL TECHNICIAN'S LICENCE NUMBER: T-0019

SIGNATURE OF TECHNICIAN/CONTRACTOR: Ken Donaldson — SUBMISSION DATE: DAY 23 MO 12 YR 91

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR: 1805 — DATE RECEIVED: JAN 10 1992

DATE OF INSPECTION — INSPECTOR

REMARKS: CSS.ES

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FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

5305883

1. PRINT ONLY IN SPACES PROVIDED
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11

MUNICIP. 53001 CON. CON 02

COUNTY OR DISTRICT [redacted]

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Amelia sburg

CON. BLOCK, TRACT, SURVEY, ETC 2

LOT Pait 105

[redacted] R #3 Carrying Place

DATE COMPLETED DAY 19 MO 11 YR 92

RC ELEVATION RC BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown			clay loom	0	2
Grey			shale limestone	2	5
Grey			lime stone	5	70

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
22	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
62	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
55	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☒ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	22
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE 6 GPM

DURATION OF PUMPING 2 HOURS ___ MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
22 FEET	68 FEET	55 FEET	40 FEET	25 FEET	22 FEET

IF FLOWING GIVE RATE ___ GPM

PUMP INTAKE SET AT 68 FEET

WATER AT END OF TEST 1 ☒ CLEAR 2 ☐ CLOUDY

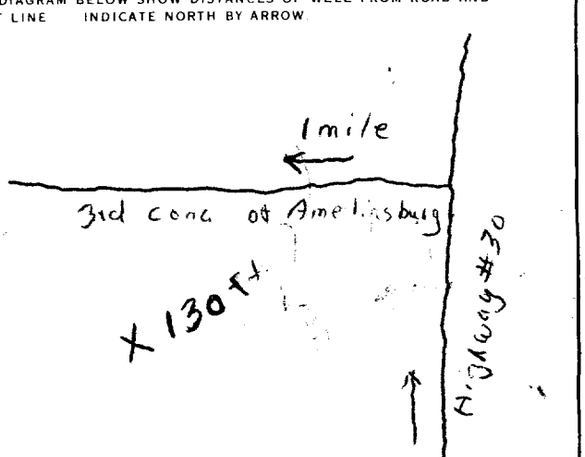
RECOMMENDED PUMP TYPE ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING 68 FEET

RECOMMENDED PUMPING RATE 5 GPM

LOCATION OF WELL

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



DRILLERS REMARKS 119422

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

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

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

CONTRACTOR

NAME OF WELL CONTRACTOR Ken Hare

WELL CONTRACTOR'S LICENCE NUMBER 2553

ADDRESS Box 901 Campbellford Ont.

NAME OF WELL TECHNICIAN Greg Hare

WELL TECHNICIAN'S LICENCE NUMBER T-0593

SIGNATURE OF TECHNICIAN/CONTRACTOR Greg Hare

SUBMISSION DATE DAY 22 MO 1 YR 93

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR 2553 | DATE RECEIVED JAN 27 1993

DATE OF INSPECTION | INSPECTOR

REMARKS

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Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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11 (1 2) **5306224** Municipality 53001 (10 14) Con. CON (15 22 23 24) 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot (25-27)
[redacted]	AMELIASBURG	CON 2	103
	Address RR#1 CONSECON	Date completed 20 (day) 11 (month) 95 (year)	

21 (1 2) T M (10) (12 17) Northing (18 24) RC (25) Elevation (26 30) RC (31) Basin Code (ii) (iii) (iv) (47)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
BROWN	CLAY			0	3
BROWN	CLAY	SHALE		3	5
GREY	SHALE			5	6
GREY	LIMESTONE			6	97

31 (10 14 15 21)
32 (32 43)

41 WATER RECORD

Water found at – feet	Kind of water
UNKNOWN (10-13)	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas (14)
(15-18)	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas (19)
(20-23)	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas (24)
(25-28)	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas (29)
(30-33)	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas (34) (60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
(10-11) 6 1/4	1 [X] Steel (12) 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic	.188	0	20.5 (13 16)
(17-18) 6	1 [ ] Steel (19) 2 [ ] Galvanized 3 [ ] Concrete 4 [X] Open hole 5 [ ] Plastic		20.5	97 (20 23)
(24-25)	1 [ ] Steel (26) 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic			(27 30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39 40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

[X] Annular space [ ] Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
20.5 (13)	7 (14-17)	CEMENT GROUT
7 (18-21)	4 (22 25)	HOLE PLUG
4 (26-29)	0 (30-33) (80)	WELL CUTTINGS

71 PUMPING TEST

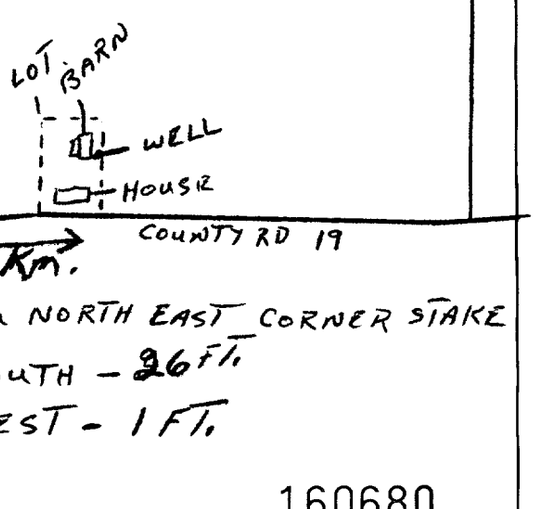
Pumping test method (10): 1 [ ] Pump 2 [X] Bailer
Pumping rate (11-14): NO FLOW GPM
Duration of pumping (15-16) Hours 00 (17-18) Mins

Static level	Water level end of pumping	Water levels during (25) 1 [ ] Pumping 2 [ ] Recovery			
(19-21) UNKNOWN feet	feet	15 minutes (26-28) feet	30 minutes (29 31) feet	45 minutes (32-34) feet	60 minutes (35-37) feet

If flowing give rate (38-41) GPM	Pump intake set at feet	Water at end of test (42) [X] Clear [ ] Cloudy
Recommended pump type [ ] Shallow [X] Deep (50-53)	Recommended pump setting (43 45) feet	Recommended pump rate (46-49) GPM

LOCATION OF WELL

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



FROM NORTH EAST CORNER STAKE
SOUTH - 26 FT.
WEST - 1 FT.

160680

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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

Name of Well Contractor	Well Contractor's Licence No.
MANSE DONALDSON WELL DRILLING	1805
Address RR#5 BELLEVILLE ONT.	
Name of Well Technician KEN DONALDSON	Well Technician's Licence No. T-0019
Signature of Technician/Contractor Ken Donaldson	Submission date day 20 mo 10 yr 95

MINISTRY USE ONLY

Data source (58)	Contractor (59-62) 1805	Date received (63 68) NOV 07 1995 (80)
Date of inspection	Inspector	
Remarks		

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Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

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Mark correct box with a checkmark, where applicable.

11 **5306936**

Municipality 53001 Con. CON 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Prince Edward	Ameliasburg	2	PLT 101
[redacted]	Address RR#1 Consecon	Date completed 02 day 04 month 02 year	

21 | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
–	8" well that was 65' deep was abandoned & plugged with CONCRETE & Clay				

31

32

41 WATER RECORD

Water found at - feet	Kind of water
10-13	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 14
15-18	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 19
20-23	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 24
25-28	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 29
30-33	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 34 60

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
10-11	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 12			13-16
17-18	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 19			20-23
24-25	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic 26			27-30

SCREEN

Sizes of opening (Slot No.) 31-33	Diameter 34-38 inches	Length 39-40 feet
Material and type	Depth at top of screen 41-44 feet	50

61 PLUGGING & SEALING RECORD

☐ Annular space ☒ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
10-13 0	14-17 2'	Clay
18-21 2'	22-25 65'	CONCRETE
26-29	30-33	80

71 PUMPING TEST

Pumping test method 10: 1 ☐ Pump 2 ☐ Bailer

Pumping rate 11-14 GPM

Duration of pumping 15-16 Hours 17-18 Mins

Water levels during 25: 1 ☐ Pumping 2 ☐ Recovery

Static level 19-21 feet	Water level end of pumping 22-24 feet	15 minutes 26-28 feet	30 minutes 29-31 feet	45 minutes 32-34 feet	60 minutes 35-37 feet

If flowing give rate 38-41 GPM

Pump intake set at feet

Water at end of test 42: ☐ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☐ Deep

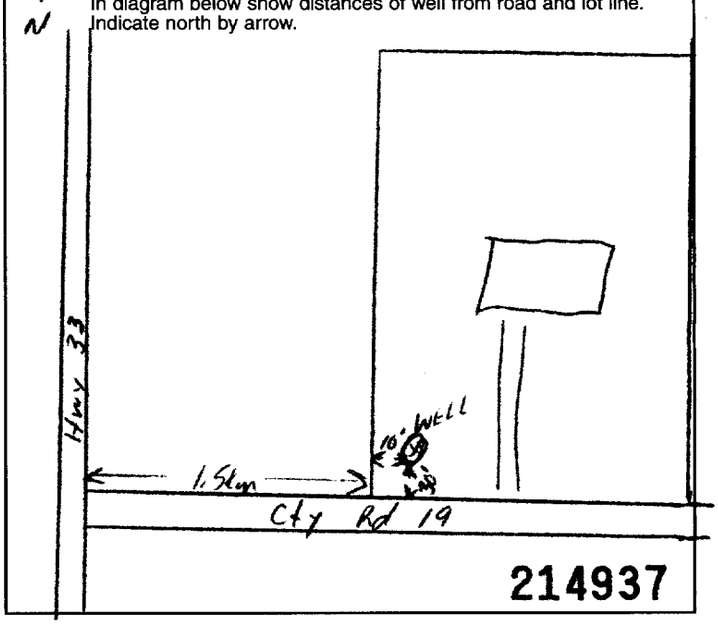
Recommended pump setting 43-45 feet

Recommended pump rate 46-49 GPM

50-53

LOCATION OF WELL

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



214937

FINAL STATUS OF WELL 54

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

WATER USE 55-56

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

METHOD OF CONSTRUCTION 57

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

Name of Well Contractor	Well Contractor's Licence No.
Arkinoer Well Drilling	6663
Address RR#2 Carrying Place	
Name of Well Technician	Well Technician's Licence No.
Dave Arkinoer	T-532
Signature of Technician/Contractor	Submission date 05 day 04 mo 02 yr

MINISTRY USE ONLY

Data source 58 | Contractor 59-62: 6663 | Date received 63-68: APR 19 2002 | 80

Date of inspection | Inspector

Remarks

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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Mark correct box with a checkmark, where applicable.

11 5306937

Municipality: 53001 Con.: CON 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
[redacted]	Ameliasburg	2	PtLt 101
	Address: RR#1 Consecon		Date completed: 02 day 04 month 02 year

21 | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
– 8" well that was 41' deep was abandoned & plugged with CONCRETE					

31
32

41 WATER RECORD

Water found at - feet	Kind of water
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	To
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

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

61 PLUGGING & SEALING RECORD

☐ Annular space ☒ Abandonment

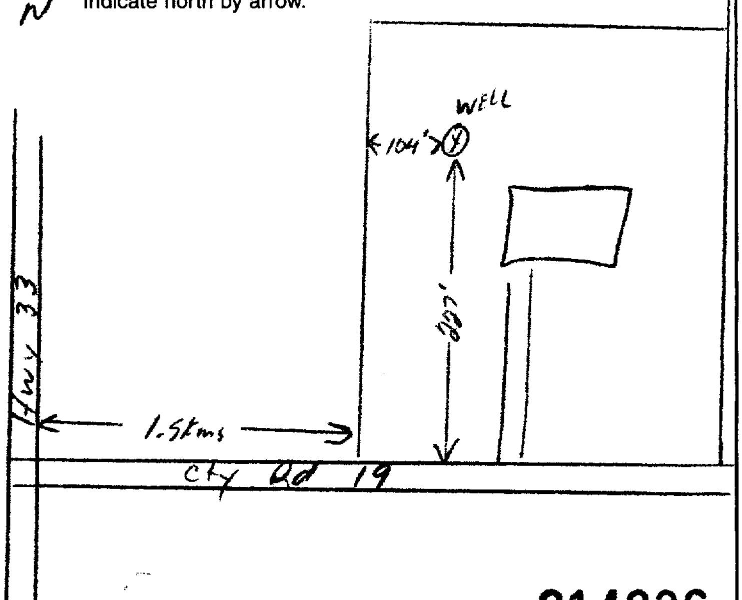
Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	41	CONCRETE

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer	Pumping rate GPM	Duration of pumping: Hours Mins	
Static level feet	Water level end of pumping feet	Water levels during 1 ☐ Pumping 2 ☐ Recovery: 15 minutes feet; 30 minutes feet; 45 minutes feet; 60 minutes feet	
If flowing give rate GPM	Pump intake set at feet	Water at end of test ☐ Clear ☐ Cloudy	
Recommended pump type ☐ Shallow ☐ Deep	Recommended pump setting feet	Recommended pump rate GPM	

LOCATION OF WELL

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



214936

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor: ALEXANDER WELL DRILLING	Well Contractor's Licence No.: 6663
Address: RR#2 Carrying Place	
Name of Well Technician: DAVE ALEXANDER	Well Technician's Licence No.: T-532
Signature of Technician/Contractor: [signature]	Submission date: day 05 mo 04 yr 02

MINISTRY USE ONLY

Data source	Contractor 6663	Date received APR 19 2002
Date of inspection	Inspector	
Remarks		

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APPENDIX D
Test Well Drawdown and Recovery Data

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

Table 1. Water Quality Field Measurements.

Field Water Quality Analysis		Test Well:	TW1
Project No.:	ASC-1025	Date:	25-Jun-25
Client:	Sorin Tudor	Recorded By: T.C.	
Location:	1763 County Road 19, Prince Edward County, ON		

Started pumping 15 L/min at 9:05 am, subsequently increased to 30 L/min and 48 L/min at 2:40pm and 3:20pm, respectively

Pumping Test Elapsed Time (min)	Odour	Temperature (°C)	pH	Conductivity (µS)	Total Dissolved Solids (ppm)	Turbidity NTU	Chlorine (Total) (mg/L)
5	Chlorine	16.5	8.41	908	455	24	150
30	Chlorine	16.0	8.25	846	410	19	100
60	Chlorine	16.1	8.03	792	396	15	100
90	Chlorine	16.2	7.99	784	390	12	50-100
120	Chlorine	16.4	7.71	820	411	6	50
150	Chlorine	18.0	7.61	817	408	5	25
180	None	17.9	7.58	815	407	3	25
210	None	17.7	7.57	786	375	8	>2.2
240	None	17.2	7.55	730	365	10	>2.2
270	None	17.4	7.57	738	369	10	>2.2
300	None	16.3	7.47	722	355	10	>2.2
330	None	15.8	7.44	649	345	10	>2.2
355	None	-	-	-	-	8	1.80
370	None	-	-	-	-	8	1.70
385	None	-	-	-	-	-	0.31
390	None	17.6	7.38	668	333	0	0.23
400	None	PUMP OFF					
Notes	1. Test well water circulated at 150 ppm chlorine residual for 70 minutes prior to pumping 2. Water was primarily clear with no odour						

Field Analysis Equipment	
Chlorine :	Hach DR 900 Colorimeter
Temp./pH/Cond./TDS :	Hanna Instruments HI98129
Turbidity :	Hach DR 900 Colorimeter

Table 2. Test Well drawdown during pumping test.

	Pumping Test - Drawdown		Test Well: TW1	
	Project No.:	ASC-1025	Date:	25-Jun-2025
	Client:	Sorin Tudor	Recorded By: T.C.	
	Location:	1763 County Road 19, Prince Edward County, ON		

Pumping Rate (Q) (L/min)	Elapsed Time (ET) (min)	Well Level (WL) (m)	Drawdown (DD) (m)
15	0	2.19	0.00
15	1	2.19	0.00
15	2	2.19	0.00
15	3	2.20	0.01
15	4	2.20	0.01
15	5	2.20	0.01
15	6	2.20	0.01
15	7	2.20	0.01
15	8	2.20	0.01
15	9	2.21	0.02
15	10	2.21	0.02
15	15	2.21	0.02
15	20	2.22	0.03
15	25	2.23	0.04
15	30	2.23	0.04
15	40	2.24	0.05
15	50	2.25	0.06
15	60	2.26	0.07
15	70	2.27	0.08
15	80	2.28	0.09
15	90	2.29	0.10
15	100	2.29	0.10
15	115	2.30	0.11
15	130	2.31	0.12
15	150	2.32	0.13
15	170	2.33	0.14
15	190	2.34	0.15
15	225	2.35	0.16
20	250	2.35	0.16
20	275	2.36	0.17
20	300	2.37	0.18
20	325	2.37	0.18
20	350	2.40	0.21
20	375	2.44	0.25
20	400	2.48	0.29

TW1	(m)		L/min	m^3/day
$\Delta s_{0\text{-}1min}$	2.19	$Q_{0\text{-}1min}$	15.00	21.6
$\Delta s_{1\text{-}10min}$	0.01	$Q_{1\text{-}10min}$	15.00	21.6
$\Delta s_{10\text{-}100min}$	0.45	$Q_{10\text{-}100min}$	15.00	21.6
$\Delta s_{100\text{-}1000min}$	0.24	$Q_{100\text{-}1000min}$	19.75	28.4
	m^2/day	m^2/s		
$T_{0\text{-}1min}$	1.80	2.09E-05		
$T_{1\text{-}10min}$	272.49	3.15E-03		
$T_{10\text{-}100min}$	8.82	1.02E-04		
$T_{100\text{-}1000min}$	21.28	2.46E-04		

Notes			
[1]		Δs	Drawdown over one Log Cycle based on Trend Line
Q	Volumetric Flow Rate	L/min	Litres per Minute
T	Coefficient of Transmissivity	gpm	Gallon per Minute

ASC Environmental Inc.
ASC-1025, Sorin Tudor, 1763 County Road 19,
Prince Edward County, ON
Figure 1. TW1 Pumping Test Drawdown

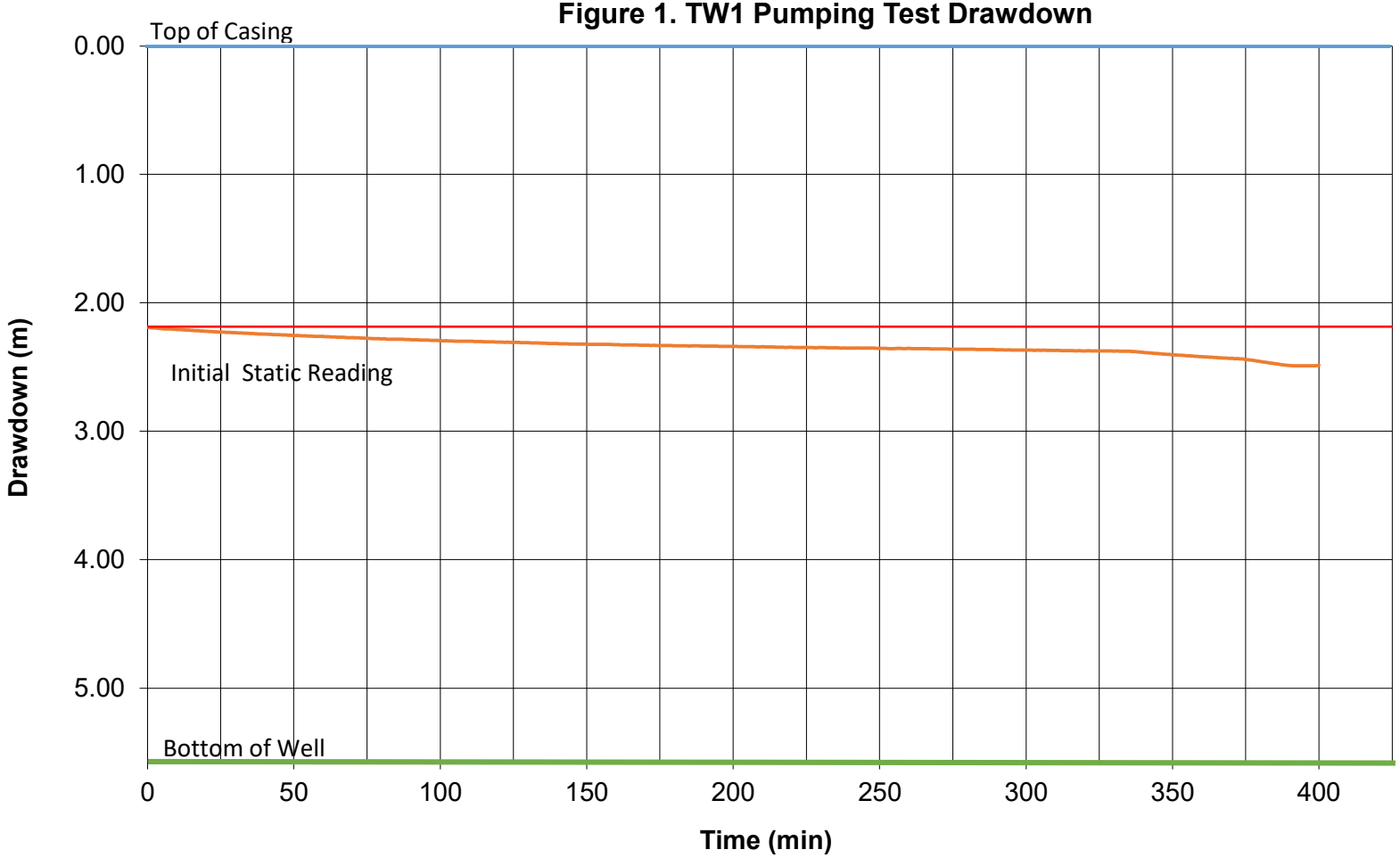


Table 3. Observation well drawdown during pumping test.

	Pumping Test - Drawdown		**Test Well:**	**TW1**
	Project No.:	ASC-1025	Date:	25-Jun-2025
	Client:	Sorin Tudor	Pumping start time	
	Location:	1763 County Road 19, Prince Edward County, ON	9:5	AM

1763 County Road 19 (OW1)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
7.841	2.39	0.000	8:56	0
7.841	2.39	0.000	10:10	65
7.776	2.37	-0.020	11:12	127
7.776	2.37	-0.020	12:10	185
7.776	2.37	-0.020	13:11	246
7.776	2.37	-0.020	14:11	306
7.874	2.40	0.010	16:4	419

1760 County Road 19 (OW2)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
7.316	2.23	0.000	8:54	0
7.316	2.23	0.000	10:11	66
7.316	2.23	0.000	11:13	128
7.316	2.23	0.000	12:11	186
7.316	2.23	0.000	13:13	248
7.316	2.23	0.000	14:13	308
7.349	2.24	0.010	16:5	420

1734 County Road 19 (OW3)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
7.546	2.30	0.000	8:50	0
7.612	2.32	0.020	10:14	69
7.546	2.30	0.000	11:16	131
7.513	2.29	-0.010	12:14	189
7.513	2.29	-0.010	13:15	250
7.513	2.29	-0.010	14:15	310
7.579	2.31	0.010	16:8	423

Distance to Observation Wells (metres)

1763 County Road 19 (OW1)	90
1760 County Road 19 (OW2)	180
1734 County Road 19 (OW3)	120

ASC Environmental Inc.
ASC-1025, Sorin Tudor, 1763 County Road 19,
Prince Edward County, ON
Figure 2. Pumping Test Influence on Neighbouring Wells
TW1 Pumping Test Zone of Influence

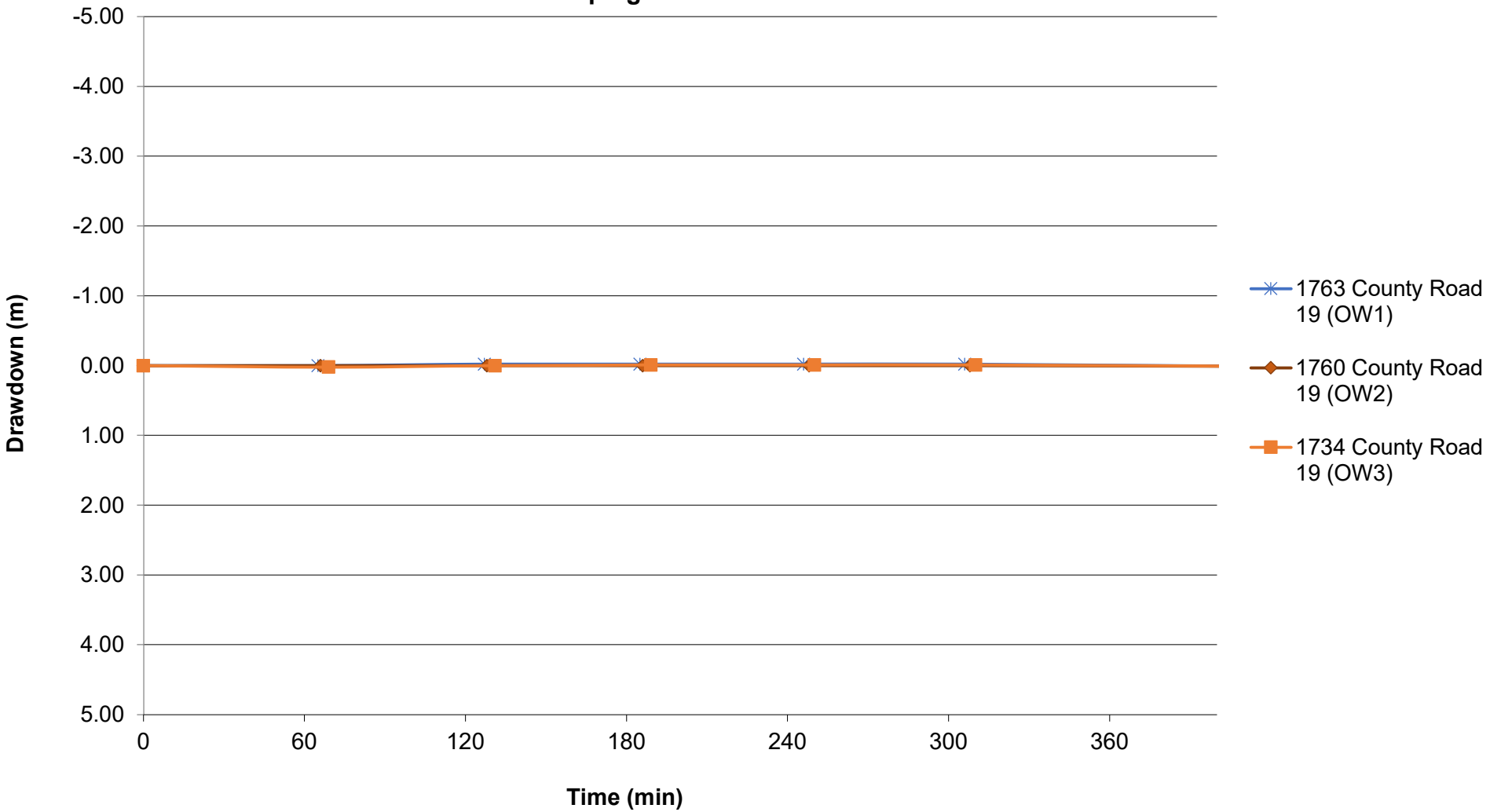
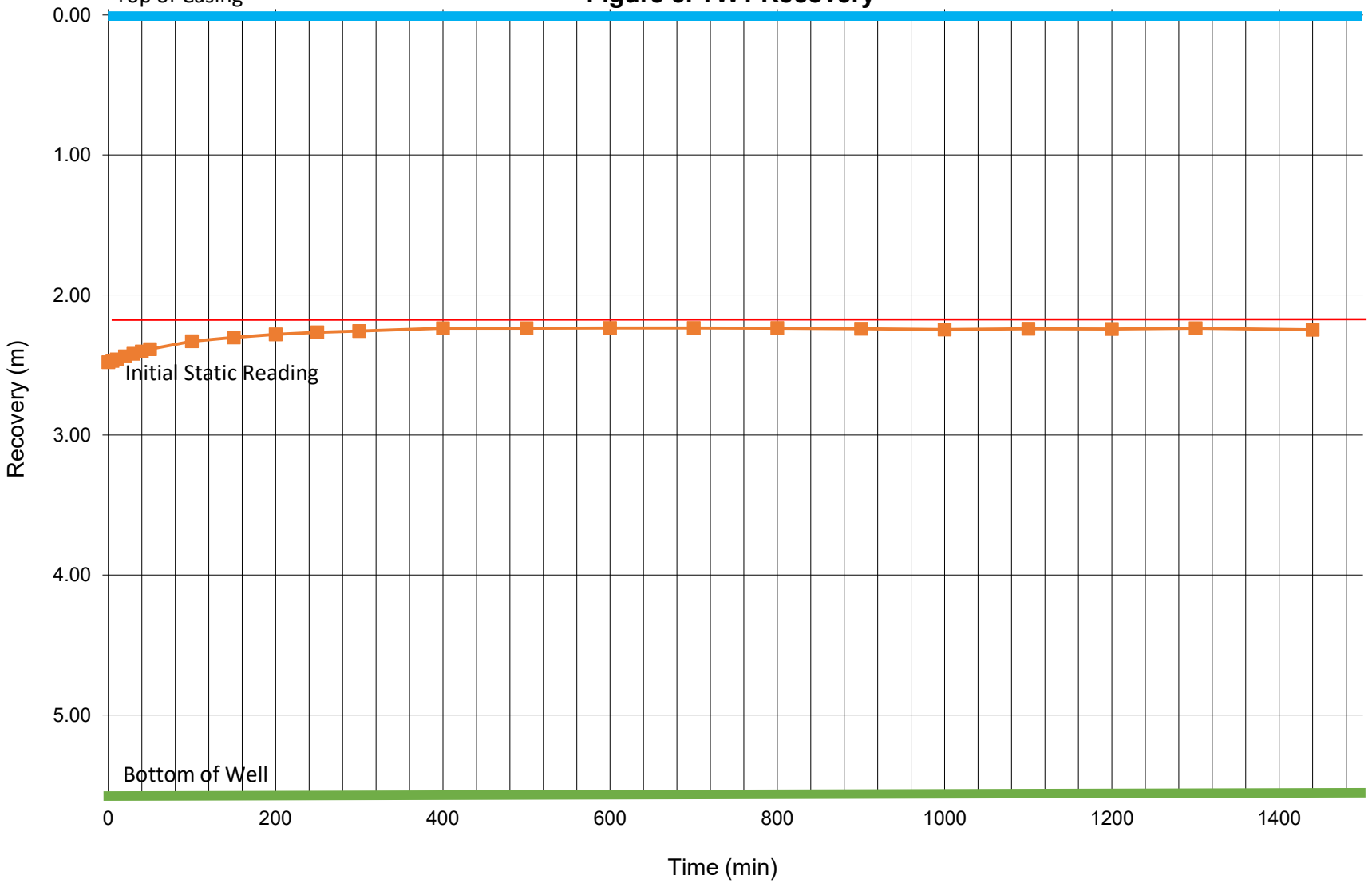


Table 4. Test well recovery after pumping test.

Pumping Test - Recovery		Test Well:	TW1
Project No.:	ASC-1025	Date:	25-Jun-25
Client:	Sorin Tudor		Recorded By: T.C.
Location:	1763 County Road 19, Prince Edward County, ON		

Pumping	Elapsed Time (min)	Well Level (WL) (m)	Drawdown (m)
0	0	2.48	0.29
0	5	2.47	0.28
0	10	2.46	0.27
0	20	2.44	0.25
0	30	2.42	0.23
0	40	2.40	0.21
0	50	2.39	0.20
0	100	2.33	0.14
0	150	2.30	0.11
0	200	2.28	0.09
0	250	2.27	0.08
0	300	2.26	0.07
0	400	2.24	0.05
0	500	2.24	0.05
0	600	2.24	0.05
0	700	2.24	0.05
0	800	2.24	0.05
0	900	2.24	0.05
0	1000	2.25	0.06
0	1100	2.24	0.05
0	1200	2.24	0.05
0	1300	2.24	0.05
0	1440	2.25	0.06
WL at 95% Recovery =		2.20	

ASC Environmental Inc.
ASC-1025, Sorin Tudor, 1763 County Road 19,
Prince Edward County, ON
Figure 3. TW1 Recovery



APPENDIX E
Laboratory Analytical Certificates

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

CADUCEON ENVIRONMENTAL LABORATORIES

Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G113016

REPORT No: 25-018467 - Rev. 0

Report To:
ASC Environmental
1305 Princess St.
Kingston, ON K7M 3E3

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Tanner Cook

DATE RECEIVED: 2025-Jun-25
DATE REPORTED: 2025-Jul-04
SAMPLE MATRIX: Ground Water

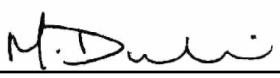
CUSTOMER PROJECT: ASC-1025
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	LMACGREGOR	2025-Jun-27	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2025-Jun-30	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2025-Jun-26	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2025-Jun-26	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	ASCHNEIDER	2025-Jun-27	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2025-Jun-26	FC-001	SM 9222D
HPC MF (Liquid)	1	KINGSTON	BBURTCH	2025-Jun-26	HPC-001	SM 9215D
Ion Balance (Calc.)	1	OTTAWA	ASCHNEIDER		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2025-Jun-30	D-ICP-01	SM 3120B
Ammonia & o-Phosphate (Liquid)	1	KINGSTON	DCASSIDY	2025-Jul-03	NH3-001	SM 4500NH3
Phenols (Liquid)	1	KINGSTON	EHINCH	2025-Jun-30	PHEN-01	MECP E3179
Sulphide (Liquid)	1	KINGSTON	MWILSON	2025-Jun-26	H2S-001	SM 4500-S2
Tannins (Liquid)	1	KINGSTON	MWILSON	2025-Jul-03	TAN-001	SM 5550
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2025-Jul-03	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	1	OTTAWA	MMIRELLA	2025-Jun-26	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 *

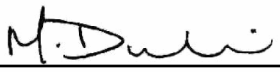
Michelle Dubien
Data Specialist

		Client I.D.	TW1
		Sample I.D.	25-018467-1
		Date Collected	2025-06-25
Parameter	**Units**	**R.L.**	-
Total Coliform (DC Media)	CFU/100mL	1	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	0
Heterotrophic Plate Count	CFU/1mL	10	120
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	305
TDS (Calc. from Cond.)	mg/L	3	356
Conductivity @25°C	uS/cm	1	685
pH @25°C	pH units	-	7.79
Colour	TCU	2	<2
Turbidity	NTU	0.1	3.2
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	33.1
Nitrate (N)	mg/L	0.05	0.43
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	12
Phosphorus (Total)	mg/L	0.01	0.02
Total Kjeldahl Nitrogen	mg/L	0.1	0.3
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05
Dissolved Organic Carbon	mg/L	0.8	6.0
Tannin & Lignin	mg/L	0.5	<0.5



Michelle Dubien
Data Specialist

Parameter	Units	R.L.	Client I.D.: TW1 Sample I.D.: 25-018467-1 Date Collected: 2025-06-25 -
Sulphide	mg/L	0.01	<0.01
Phenolics	mg/L	0.001	0.001
Hardness (as CaCO3)	mg/L as CaCO3	0.02	254
Calcium	mg/L	0.02	83.2
Iron	mg/L	0.005	0.043
Magnesium	mg/L	0.02	11.2
Manganese	mg/L	0.001	0.123
Potassium	mg/L	0.1	8.3
Sodium	mg/L	0.2	48.2
Anion Sum	meq/L	-	7.31
Cation Sum	meq/L	-	7.39
% Difference	%	-	0.565
TDS (Ion Sum Calc)	mg/L	1	381
Conductivity Calc	µmho/cm	-	682



Michelle Dubien
Data Specialist

APPENDIX F
Precipitation Data

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

Government of Canada / Gouvernement du Canada

Home › Environment and natural resources › Weather, Climate and Hazard › Past weather and climate › Historical Data

Daily Data Report for June 2025

BELLEVILLE
ONTARIO
Current Station Operator: CCN

Latitude: 44°09'02.052" N

Longitude: 77°23'41.046" W

Elevation: 76.20 m

Climate ID: 6150689

WMO ID:

TC ID:

DAY	Max Temp °C	Min Temp °C	Mean Temp °C	Heat Deg Days	Cool Deg Days	Total Rain mm	Total Snow cm	Total Precip mm	Snow on Grnd cm	Dir of Max Gust 10's deg	Spd of Max Gust km/h
01 †	16.5	8.0	12.3	5.7	0.0	T	0.0	T	0		
02 †	20.0	8.0	14.0	4.0	0.0	0.0	0.0	0.0	0		
03 †	23.5	10.5	17.0	1.0	0.0	0.0	0.0	0.0	0		
04 †	28.5	14.5	21.5	0.0	3.5	0.0	0.0	0.0	0		
05 †	26.0	18.5	22.3	0.0	4.3	0.0	0.0	0.0	0		
06 †	25.5	17.0	21.3	0.0	3.3	0.0	0.0	0.0	0		
07 †	28.0	16.5	22.3	0.0	4.3	0.0	0.0	0.0	0		
08 †	24.5	12.0	18.3	0.0	0.3	1.2	0.0	1.2	0		
09 †	20.5	16.5	18.5	0.0	0.5	5.8	0.0	5.8	0		
10 †	22.0	16.0	19.0	0.0	1.0	0.0	0.0	0.0	0		
11 †	23.5	14.0	18.8	0.0	0.8	0.0	0.0	0.0	0		
12 †	25.0	15.5	20.3	0.0	2.3	0.0	0.0	0.0	0		
13 †	18.5	10.5	14.5	3.5	0.0	0.0	0.0	0.0	0		
14 †	23.5	13.5	18.5	0.0	0.5	0.0	0.0	0.0	0		
15 †	26.5	15.5	21.0	0.0	3.0	0.0	0.0	0.0	0		
16 †	25.5	12.5	19.0	0.0	1.0	0.0	0.0	0.0	0		
17 †	26.5	16.5	21.5	0.0	3.5	0.0	0.0	0.0	0		
18 †	28.0	19.5	23.8	0.0	5.8	T	0.0	T	0		
19 †	25.0	17.0	21.0	0.0	3.0	3.0	0.0	3.0	0		
20											
21 †	26.5	14.5	20.5	0.0	2.5	T	0.0	T	0		
22 †	34.0	22.5	28.3	0.0	10.3	0.0	0.0	0.0	0		
23 †	32.0	23.0	27.5	0.0	9.5	0.0	0.0	0.0	0		
24 †	35.0	21.0	28.0	0.0	10.0	T	0.0	T	0		

DAY	Max Temp °C	Min Temp °C	Mean Temp °C	Heat Deg Days	Cool Deg Days	Total Rain mm	Total Snow cm	Total Precip mm	Snow on Grnd cm	Dir of Max Gust 10's deg	Spd of Max Gust km/h
25 †	30.5	23.0	26.8	0.0	8.8	0.0	0.0	0.0	0		
26 †	23.5	19.0	21.3	0.0	3.3	0.0	0.0	0.0	0		
27 †	23.0	17.0	20.0	0.0	2.0	8.8	0.0	8.8	0		
28 †	30.0	19.5	24.8	0.0	6.8	0.0	0.0	0.0	0		
29 †	24.5	14.0	19.3	0.0	1.3	0.0	0.0	0.0	0		
30 †	31.0	16.0	23.5	0.0	5.5	5.6	0.0	5.6	0		
Sum				14.2^	97.1^	24.4^	0.0^	24.4^			
Avg	25.8^	15.9^	20.9^								
Xtrm	35.0^	8.0^				8.8^	0.0^	8.8^		M	M

Summary, average and extreme values are based on the data above.

Legend

- A = Accumulated
- C = Precipitation occurred, amount uncertain
- E = Estimated
- F = Accumulated and estimated
- L = Precipitation may or may not have occurred
- M = Missing
- N = Temperature missing but known to be > 0
- S = More than one occurrence
- T = Trace
- Y = Temperature missing but known to be < 0
- [empty] = Indicates an unobserved value
- ^ = The value displayed is based on incomplete data
- † = Data that is not subject to review by the National Climate Archives

Date modified:

2025-06-10