

1100 Clearview Road Severance

Hydrogeology Study

1100 Clearview Road, Belleville, Ontario

December 18, 2025

Project # 25-6117A





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Author and Review Panel

Issue Code	Revision					Revision Details
	No.	By	Rev'd.	App.	Date	
RI	0	DC	CM	CM	December 18, 2025	Report issued

Issue Codes: RR = Released for Review and Comments, RI = Released for Information

Signatures

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1 Introduction

Greer Galloway, a division of Jp2g Consultants Inc. (Jp2g) was retained by Michael Fox to complete a Hydrogeology Study in support of a one-lot severance where a two-bedroom residential dwelling is currently being constructed located on a proposed approximately 1.3 ha sized severed lot. The subject property is 36.1 ha in size and the proposed severance would leave 34.8 ha of retained lands. The property is located along the south side of Clearview Road at the northern edge of the municipality of Belleville, Ontario and 215 m west of the intersection of Clearview and Wannamaker Road. The retained lands have been home to a commercial business Ace Pumping for the last four decades and the buildings associated with the business are currently serviced by a large diameter well and privately serviced by a Class 4 Septic System.

The purpose of the work was to assess the soil and groundwater conditions at the site to demonstrate that the newly installed water supply well will be suitable for supporting the proposed severance in accordance with Provincial standards and without adversely impacting surrounding private water sources.

2 Investigation Methods

The assessment was carried out in general accordance with the Ministry of the Environment, Conservation, and Parks (MECP) procedures D-5-4 (Individual On-Site Sewage Systems) and D-5-5 (Private Well: Well Assessment).

The investigation included a review of water well records, a review of available geologic and hydrogeologic information for the area, an inventory of water supply wells within a reasonable distance of the subject property, a pumping test on the newly installed well that is proposed to service the additional dwelling, along with chemical and bacteriological analysis, and monitoring water level responses in observation wells prior, during, and after the pumping test. The investigation methods are described further in the following subsections.

2.1 Well Records Search and Survey

Information about nearby wells was obtained from available MECP water well records on the MECP wells database using a search radius of 300 m from the subject property. MECP Water Well Record sheets for the searched area are provided in Appendix A.

In October 2025, a door-to-door well survey was carried out for neighbouring wells within a 300 m radius of the test well. The property owners at 1054, 1152, and 1165 Clearview Road agreed to participate in well monitoring during the test. 1165 is an undeveloped property with four large diameter wells and all three of these wells (A402979, A402980 and A350511) were monitored during the pumping test. The existing large diameter well on the subject property was also monitored during the pumping test. Letters with information about the work being conducted and contact information were dropped off, but no responses were received at 1043, 1055 and 1079 Clearview Road.

2.2 Water Supply Assessment

The water supply assessment was based on a pumping test of the blasted dug well (A334393) installed in 2022 in the southeastern corner of the severed lot in order to service the residential dwelling that is currently being constructed on the property. The well is a 91.4 cm diameter dug blasted well with a depth of 6.24 m below ground surface (bgs) and a driller reported yield of 45.5 L/min.



The 6-hour pumping test was performed on October 9, 2025 using a submersible pump with the discharge routed through a flow restriction valve corresponding to the desired pumping rate. Discharge water was directed away from the well in a down gradient direction in the direction of the property boundary directly to the east.

A data-logging pressure transducer (Solinst Model 3001) was installed in the tested well as well as the large diameter well that services the existing commercial building as well as neighbouring wells at 1054, 1152, 1165 (3 wells monitored) Clearview Road. The datalogger in the test well was set to record at 10-second intervals. Hydrographs are provided in Appendix B.

2.3 Water Quality Assessment

A groundwater sample was obtained during the last hour of the pumping test. The sample was placed into a variety of laboratory-prepared sample containers that were sealed, placed into a cooler with ice packs to maintain a temperature of approximately 4 °C, and transported to Caduceon Laboratories in Kingston, Ontario. Analytical parameters included E. coli and Total Coliform bacteria and a variety of additional parameters including Alkalinity, pH, Conductivity, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, TKN, Total Phosphorus, DOC, Hardness, Calcium, Iron, Magnesium, Manganese, Sulphide, Silica, Sodium, and Lead (refer to the Laboratory Certificate of Analysis in Appendix C).

3 Summarized Findings

3.1 Site Description

The subject property covers an area of approximately 36.1 ha and is located at 1100 Clearview Belleville in the County of Hastings. The client wishes to sever a 1.3 ha and is current constructing a 2-bedroom residential dwelling with its own dedicated water supply well (A334393) and a proposed Class 4 Septic system. The retained lands feature 4 commercial buildings and are serviced by its own water supply (dug well) and Class 4 Septic System. The subject property is primarily grass covered where vegetation is present with the southern boundary and area surrounding the wetland treed. Local land use is Rural Residential and Agricultural. Maps of the property and its surroundings are provided in Drawings 1 and 2 (appended after text).

Topography of the subject property declines towards the wetlands located in the western portion of the property and also to the southeast corner of the property from a drumlin that forms a topographic high and traverses the property on a diagonal from the close to the northeast to southwest corner.. Drainage follows local topography. The elevation at the topographic high of the drumlin located centrally on the subject property is approximately 148 metres above sea level (mASL) and the elevation at the southeastern corner of the property is approximately 133 mASL.

There are no major surface water bodies within 500m of the proposed severance. Municipal servicing is not available in the vicinity of the subject property, so drinking water and sewage servicing must be handled by individual water supply wells and septic systems.



3.2 Climate and Water Balance

The area is characterized by cold winters and relatively warm humid summers. Snow typically occurs during 5 months of the year from December to April. Annual precipitation is 911 mm/a at the Belleville weather station (Environment Canada, 2020) with an average annual evapotranspiration (ET) of roughly 500 mm based on the site location (Statistics Canada, 2017).

Mapping shows primarily surficial soils classified as silty sand to sand-textured till on Precambrian terrain in the Surficial Geology of Southern Ontario (OGS, 2011). Infiltration factors for the area were calculated as per the Ontario Ministry of the Environment 1995 Hydrogeological Technical Information Requirements for Land Development Applications.

It is based on three sub-factors which are:

- Topography sub-factor
- Soil sub-factor
- Cover sub-factor

Table 1 presents infiltration factors based on the details of the ground cover factors for the subject property under current conditions.

Table 1: Estimated infiltration factors

Site Characteristics	Infiltration Factor
<u>Topography</u>	
Flat Land	0.3
Rolling Land	0.2
Hilly Land	0.1
<u>Soils</u>	
Tight Impervious Clay	0.1
Medium Combinations of Clay and Loam	0.2
Open Sandy Loam	0.4
<u>Cover</u>	
Cultivated Land	0.1
Woodland	0.2
Sum of Infiltration Factors	0.4

Given an average annual moisture surplus (P-ET) of approximately 411 mm, we estimate an average annual infiltration of 164 mm/a for the subject property. We note that we have used the more current guidance from



Chapter 22 of the 2008 Design Guidelines for Sewage Works (MECP, 2008) for nitrate loading. This guideline calls for the use of a standard 250 mm/a for groundwater recharge.

3.3 Geology

The Ontario Soil Report No.27 classifies soils across the majority of the property as the sandy phase of the Bondhead Loam and a lesser area in the western portion of the property where wetlands are present is classified as muck. The Ontario Soil Report No. 27 describes the Bondhead series as surficial soils are stony, brown to dark brown sandy loam with a crumb texture. Underlying the surficial soils is a layer of grey loam to clay loam which slows drainage. These soils contain an abundance of limestone fragments and are level to rolling in topography. These soils feature good external and internal drainage and can be used for cultivation. The well record for the tested well indicates that bedrock occurs at a depth of 1.2 m bgs and a unit of clay was encountered starting at 0.3 m bgs overlain by brown topsoil starting from surface.

Carson (1981) has described the bedrock as pale to medium brown, white, and dark grey, medium to coarse grained, bioclastic limestone and shale and shaly limestone belonging to the Verulam Formation of the Simcoe Group.

3.4 Hydrogeology

A search of the Ministry of Environment, Conservation and Parks (MECP) Well Record Database returned 18 wells within a 300 m radius of the site (see Drawing 2, appended). Four well records are for monitoring wells. Records in the vicinity indicate the bedrock in the area consists of Limestone 1.2 m to 9.1 m below ground surface (bgs) with a median of 2.1 m bgs. Drillers well tests show flows ranging from 4.5 L/min to 90.9 L/min and water found at depths ranging from 3 m bgs to 9.4 m bgs. Subject lands are located outside any mapped WHPA.

Table 2: Summary of well depths and yields within a 300 m radius of the property

Well Number	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
2900729	-	-	-	1.8	76.2	Dry	Limestone
A110073	4.2	3.3	90.9	3.7	12.2	Untested	Limestone
A110045	9.4	8.2	90.9	9.1	13.1	Untested	Limestone
A115422	-	3.1	77.3	2.1	9.1	Untested	Limestone
A115425	-	-	90.9	1.5	2.1	Untested	Overburden/Shale
A110073	-	4.0	4.5	-	27.7	Untested	Limestone
A110073	-	-	-	-	-	-	Decommissioned
A077288	-	1.4	90.9	1.2	7.2	Fresh	Limestone
7256063	-	-	-	2.1	18.3	Dry	Decommissioned
A148305	3	1.4	90.9	2.7	6.5	Fresh	Limestone
A148306	3	1.5	90.9	2.1	6.5	Fresh	Limestone
A334393	3.0	2.7	45.5	1.2	6.2	Untested	Limestone



A350511	5	4.1	36.3	2.5	8.2	Fresh	Limestone
A350510	4	2.16	90.9	1.2	6.7	Fresh	Limestone

Based on the recorded static levels and the topographic setting, the dominant local groundwater flow direction is towards south-southeast in the direction of the Moira River and ultimately Lake Ontario.

3.5 Water Availability

A pumping test was performed on the drilled water supply well A334393 at 11:01 AM October 9, 2025 during warm and dry conditions. A total 0.9 mm of precipitation fell in the two weeks leading up to the date of the pumping test. The static level was measured as 2.21 m bgs prior to commencing the pumping test.

Pumping was carried out over a 6-hour and 4-minute period, ending at 17:46 on the same day. The pumping test was commenced at a flow rate of 33 L/min and remained at this rate for the duration of the test. The final water level reading before the test was stopped was 3.20 m bgs, with a drawdown of approximately 1 m from the beginning of the pumping test. A volume of 12,012 L was pumped from the well over the course of the test, and a standing water column of 3.06 m remained at the end of pumping. Following the pumping test 59% recovery occurred after three days and 77% recovery after four days following the cessation of pumping. A hydrograph of the data for this pumping test is included in Appendix B.

According to MECP Guideline D-5-5, the per-person requirement is 450 L/day (though recent data shows that actual per-person usage in Ontario is approximately 225 L/day), with peak demand occurring for a period of 120 minutes each day. Assuming the average occupancy for a residential dwelling is the number of bedrooms + 1, the occupancy of the proposed dwelling is 3 persons. This is equivalent to a peak demand of 15 L/min. Well yield is sufficient to support water demands of 1,350 L per day (per D-5-5) for the proposed residential dwelling as over 8.8 days worth of water were removed during the 6-hour test with considerable available drawdown remaining and slow steady recovery occurring following the test. Based on the time of testing during the seasonal low water table and the presence of nearby wetland areas which will limit the magnitude of any water table decline we believe that the test results are a conservative representation of year-round conditions.

3.6 Water Quality

A groundwater sample was obtained from the tested well just before the end of the pumping test and was analyzed at Caduceon Laboratories Ltd. in Kingston, Ontario for selected parameters. The groundwater sample was collected after testing if there was a chlorine residual present in the well as the well was shock chlorinated a week prior to testing. Key results are summarized in Table 3, with exceedances being formatted in bold. The full results of this testing are included with the Laboratory Certificates of Analysis in Appendix C.

Table 3: Summary of key analytical results

Parameter	Units	RL	A334393 (October 9, 2025)	A334393 (October 20, 2025)	Limit (MECP D-5-5)
<u>Bacteriological Parameters</u>					
Total Coliform	cfu/100mL	1	0	-	0 (5)
E coli	cfu/100mL	1	0	-	0
Background	cfu/100mL	1	0	-	N/A
<u>Physical/Chemical parameters with Health-related Criteria</u>					
Turbidity (Laboratory)	NTU	0.1	58	-	5



Turbidity (Wellhead)	NTU	0.1	3.	-	5
Nitrite (N)	mg/L	0.1	<0.05	-	1
Nitrate (N)	mg/L	0.1	< 0.05	-	10
Fluoride	mg/L	0.1	0.3	-	2.4
Physical/Chemical parameters with Aesthetic Criteria/Operational Guidelines					
Alkalinity (as CaCO ₃)	mg/L	5	526	-	500 ^{OG}
pH @25°C	pH Units	-	7.71	-	6.5 – 8.5 ^{OG}
Colour	TCU	2	<2	-	5 ^{OG}
Chloride	mg/L	0.5	22.9	-	250 ^{AO}
Sulphate	mg/L	1	19	-	500 ^{AO}
Dissolved Organic Carbon	mg/L	0.2	3.3	-	5 ^{AO}
Sulphide	mg/L	0.01	<0.01	-	0.05 ^{AO}
Hardness (as CaCO ₃)	mg/L	1	522	-	100 ^{OG}
Iron	mg/L	0.005	5.13	0.1	0.3 ^{AO}
Magnesium	mg/L	0.02	24.3	-	-
Manganese	mg/L	0.001	0.711	0.3	0.05 ^{AO}
Sodium	mg/L	0.2	29.0	-	200 ^{AO}
Lead	mg/L	0.00002	0.00012	-	0.01 ^{MAC}

All parameters from the sample taken from A334393 at the end of the pumping test were found to meet health related criteria of the ODWS with the exception of Turbidity which was reported to be 58 NTU in the laboratory sample. A wellhead turbidity measurement was made at the time the laboratory sample was collected and found to be 3.44 NTU and below the D-5-5 guideline criteria. High turbidity recorded in the laboratory sample appears to be attributed with the precipitation of metals over time within the sample bottle and it should be the sampled was analysed past the laboratory holding time due to a Laboratory error. Manganese was found to exceed the Health Canada health limit of 0.12 mg/L. Iron was also found to have a concentration of 5.13 mg/L within the sample collected during the pumping test exceeding the aesthetic objective for this parameter. A second sample was collected on October 20th 2025 as it was suspected that concentrations of Iron and Manganese would be lower under more typical residential pumping conditions and were found to be at concentrations of 0.1 and 0.3 mg/L respectively.

The concentration of Hardness was found to be 522 mg/L and at a concentration that exceeded the operational guideline criteria of 100 mg/L. Elevated Hardness concentrations in groundwater are common with Limestone aquifers and is not considered a human health concern. A water softening system may be considered and include as part of the water treatment to reduce Hardness. The concentration of sodium was found to be 29 mg/L and exceeds the 20 mg/L the threshold at which reporting to Public Health would be required for a regulated system but below the aesthetic objective of 200 mg/L.

3.7 Potential for Well Interference

No observable interference caused by the 6 hour pumping test was noted at any of the monitored wells during the 6 hour pumping test (i.e., 1165 (3 wells), 1152 and, 1054 Clearview Road, as well as the existing well at on the retained lands of 1100 Clearview Road). It should be noted that there the well at 1152 Clearview was used frequently during the period of the 6-hour pumping test but recovery that occurred during the testing period within the well was consistent with other instances of recovery throughout the monitoring period.



The radius of influence (r , metres) between a pumped well and the neighbouring properties may be estimated using the estimated value for Q (i.e., the average amount pumped per day in litres) and the average recharge (R , mm per year) to the aquifer according to:

$$Q = \frac{R\pi r^2}{365}$$

For an annual infiltration value of 164 mm, this calculation yields a radius of influence of 31 m based on a dug well, pumping at a rate of 1,350 L/day (3 people x 450 L/day) over the course of a year for A334393.

We note that the fractured bedrock aquifer does not behave in the same way as an ideal porous media. Localized zones of higher permeability soils will be associated with a locally greater radius of influence, while lower permeability zones will have a correspondingly reduced radius of influence. However, even accounting for these effects, well interference is not anticipated to be a problem at the subject property.

3.8 Onsite Sewage Treatment

The area of the subject property is greater than 1.3 ha, and as such, the risk of contamination of neighbouring properties via nitrate-rich sewage effluent is considered to be low under MECP Guideline D-5-4. As the retained lands are commercial and involved in septic haulage a calculation of nitrate attenuation has been included.

The concentration of nitrate at the property boundary of the subject property, in accordance with MECP Guideline D-5-4 for individual onsite sewage systems, is calculated as follows:

$$C_T = \frac{(Q_O \times C_O) + (Q_O \times C_{bk}) + (Q_R \times C_R)}{Q_R + Q_O} \quad [2]$$

Where:

C_T = Nitrate concentration at property boundary (mg/L as N)

Q_O = Sewage Effluent Volume (L/day)

C_O = Nitrate concentration of sewage effluent (mg/L as N)

C_{bk} = Nitrate concentration in background groundwater (mg/L as N)

Q_R = Groundwater recharge or precipitation infiltration (L/day)

C_R = Nitrate concentration of groundwater recharge (mg/L as N)

Each of these parameters are discussed as follows:

Q_O – Daily sewage flows will be dependent on the number of persons at each residence. Based on a 4 to 5 person household, the daily flow per lot is 1 m³/day (1,000 L/day). This would also cover the new 2-bedroom dwelling.

C_O – For conventional sewage systems for residential developments, an effluent nitrate flux of 40 mg/L per building lot is typically assumed for residential developments.

C_{bk} – Background nitrate levels of less than 0.05 mg/L were reported for the groundwater sample taken during the pumping test, as indicated in Table 3 of this report.

Q_R – A groundwater recharge rate of 250 mm/year and an area of 1.3 ha yields a groundwater recharge of 8,922 L/day.



C_R – Nitrate levels in groundwater recharge are ignored since precipitation does not typically contain detectable levels of nitrate.

C_T - The calculated groundwater nitrate at the property boundary.

These quantities yield a nitrate concentration of less than 10 mg/L in groundwater leaving the property:

$$C_T = \frac{(1,000L \times 40 \text{ mg/L}) + (1,000 \times 0 \text{ mg/L}) + (8,922 \times 0 \text{ mg/L})}{8,922 + 1,000} = 4.03 \text{ mg/L}$$

Site conditions are considered suitable for a private septic system in order to service the proposed severance.

The site conditions are considered suitable for a private sewage treatment system. Any system must be constructed in accordance with Section 8 of the Ontario Building Code and must meet the setback distances outlined in Table 5.

Table 5: Minimum Clearances for Distribution Piping

Object	Minimum Setback (m)
Structure	5
Well with a watertight casing to a depth of 6 m	15
Any other well	30
Pond	15
Stream	15

4 Summary

The purpose of the work was to determine soil and groundwater conditions at the site and to demonstrate that the proposed severance can be serviced by groundwater and an individual septic system in accordance with Provincial standards without adversely affecting surrounding private water sources.

Our assessment found the following:

1. The large diameter blasted well A334393 has sufficient yield to support a 2-bedroom dwelling and approximately nine days of water usage (as per D-5-5) was discharged during the 6-hour pumping test followed by slow gradual recovery. Approximately 75% of the standing water column remained at the end of the pumping test and testing was completed during low water table conditions.
2. Based on our calculations and the proximity of the nearest wells and monitoring neighbouring wells during the pumping test, well interference is not anticipated associated with future domestic use of the test well.
3. Water quality results from the sample taken during the pumping test showed good water quality, with no exceedances of any health-related parameters under MECP Guideline D-5-5 with the exception of Manganese which exceeded the Health Canada health limit of 0.12 mg/L. The concentration Iron was found to be elevated and the combination of the two parameters suggest connection of the aquifer to local wetlands. The well should be treated to surface water level standard of water treatment, and the water treatment system should be designed to reduce Manganese and Iron concentrations. Treatment of Iron and Manganese will mitigate the build of turbidity within the water over time. The concentration of sodium was found to be 29 mg/L and



exceeds the 20 mg/L the threshold at which reporting to Public Health would be required for a regulated system but below the aesthetic objective of 200 mg/L. A water treatment specialist should be consulted when selecting a water treatment system

4. The subject property is large enough to accommodate an additional Class 4 Septic System to meet the projected design flows (of 2,200 L per day) for a the (2-bedroom) residential dwelling. Nitrate dilution calculations suggest that the property is large enough to meet MECP Guideline D-5-4 with respect to nitrate in the groundwater leaving the property considering the addition of the 2-bedroom dwelling that is currently being constructed on the property.

5 References

MECP (Ministry of Environment Conservation and Parks) 1996: D-5-5 Private Wells: Water Supply Assessment, updated March 15, 2016.

MECP (Ministry of Environment Conservation and Parks) 1996: D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment, updated April 14, 2016.

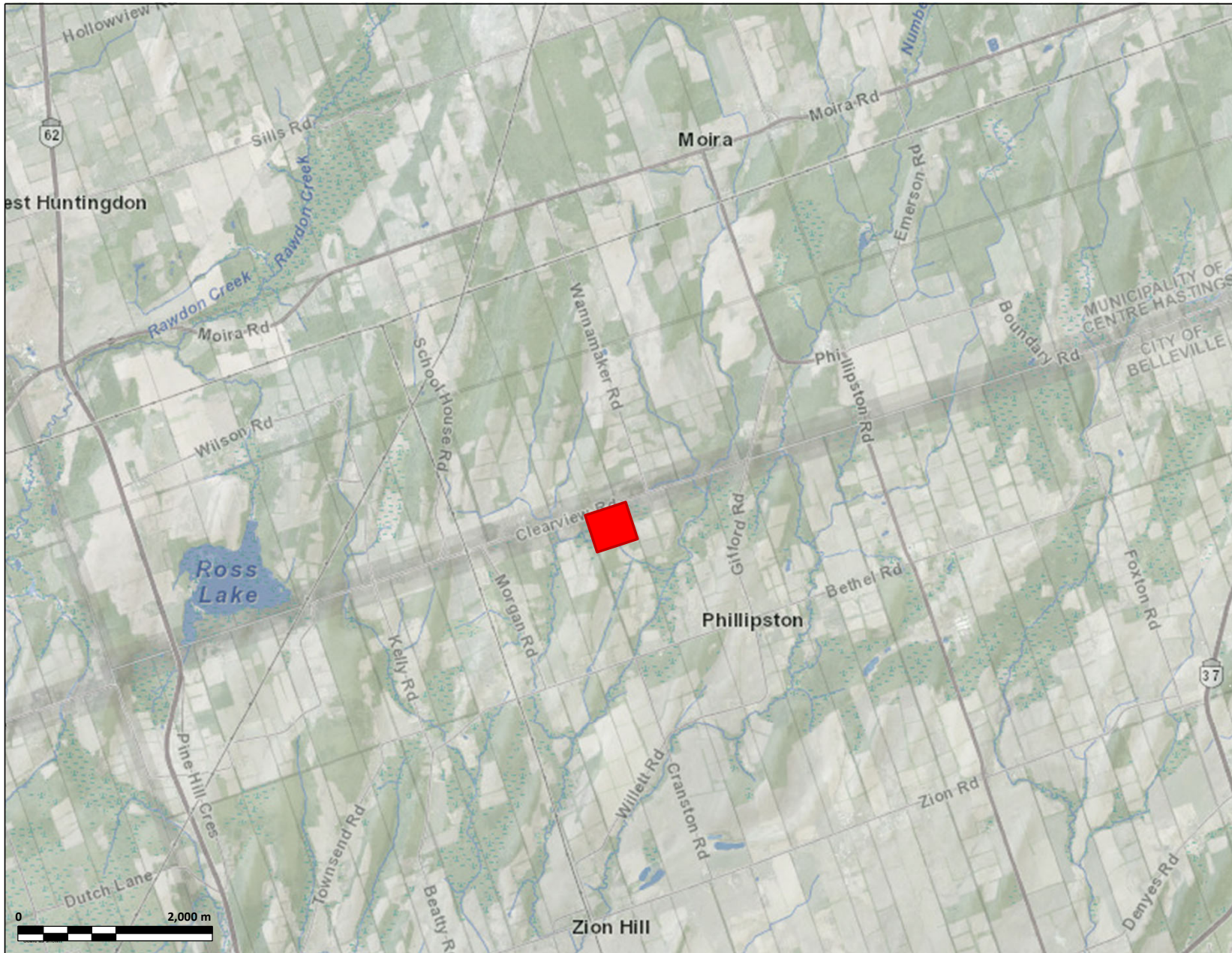
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Ontario Agricultural College, 1962: Soil Survey of Hastings County. Report No. 27 of the Ontario Soil Survey, Scale 1:63 360.



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NOTES:

- 1) Base drawing and information: obtained from Ontario.ca -
Make A Topographic Map

LEGEND:

- Property Location



PROJECT 25-6117A:

HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
CENTRE HASTINGS, ONTARIO

DRAWING 1:

SITE PLAN SHOWING PROPERTY LOCATION



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NOTES:
Base drawing and information obtained from the Hastings GIS
<https://hastings-gis.maps.arcgis.com/apps/webappviewer/index.html?id=4831ccb4e8bc4a90a83048982673340>

- LEGEND:**
- Property boundary
 - Severance A
 - Retained
 - Monitoring Well
 - Test Well
 - Neighbouring Well
 - Class 4 Septic Bed



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
CENTRE HASTINGS, ONTARIO

DRAWING 2:
SITE PLAN SHOWING WELL LOCATIONS



Appendix A: MECP Water Well Records

Measurements recorded in: Metric Imperial

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Well Owner's Information

First Name LIDSTER	Last Name / Organization HOMES	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 1337 FISH AND GAME CLUB RD.		Municipality FRANKFORD	Province ON
		Postal Code K0K2C0G6	Telephone No. (inc. area code) 133987734

Well Location

Address of Well Location (Street Number/Name) 493 WANNAMAKER RD		Township CENTER HASTINGS	Lot 9	Concession 1
County/District/Municipality HASTINGS COUNTY		City/Town/Village CITY OF BELLEVILLE	Province Ontario	Postal Code K0K2B0
UTM Coordinates NAD 83	Zone 18	Easting 307734	Northing 4911513	Municipal Plan and Sublot Number

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
BLACK	SOIL	Loose STONES		0	1.5
GREY	SHALE	DIRT		1.5	2.1
GREY	LIMESTONE			2.1	9.1

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	
From: 0 To: 2.5	CLAY	25	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input checked="" type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
90	CONCRETE	01	0	9.1	

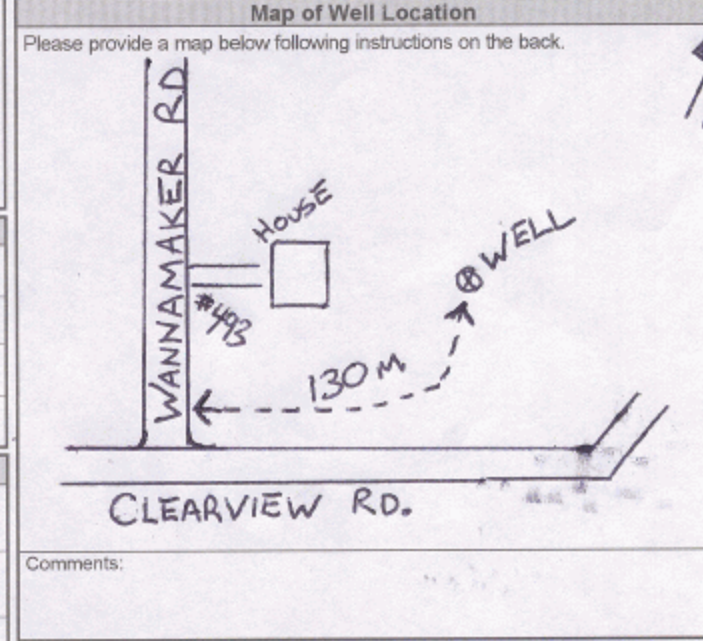
Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

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

Well Contractor and Well Technician Information			
Business Name of Well Contractor FRANKS DRILLING AND BLASTING		Well Contractor's Licence No. 6 8 8 1	
Business Address (Street Number/Name) Box 100		Municipality NEWBURGH	
Province ON	Postal Code K0K2S0	Business E-mail Address	

Bus. Telephone No. (inc. area code) 6133782178	Name of Well Technician (Last Name, First Name) PARR, GREG		
Well Technician's Licence No. 2 6 0 3	Signature of Technician and/or Contractor <i>[Signature]</i>		
	Date Submitted 20110923		

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) 9 Pumping rate (l/min / GPM) 585 Duration of pumping hrs + 60 min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	3.1		
	1			
	2			
	3			
	4			
	5			
	10			
15				
20				
25				
30				
40				
50				
60				



Well owner's information package delivered	Date Package Delivered	Ministry Use Only	
<input checked="" type="checkbox"/> Yes	20110923	Audit No.	Z130664
<input type="checkbox"/> No	20110920	Received	OCT 04 2011

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name _____ Last Name / Organization Lidster Homes E-mail Address _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name) 1337 Fish and Game Club Rd. Municipality Frankford Province ONT Postal Code K0K2C0 Telephone No. (inc. area code) 613 398 7734

Well Location

Address of Well Location (Street Number/Name) 481 Wannamaker Rd RR#2 Township Huntingdon Lot 9 Concession 1

County/District/Municipality Center Hastings City/Town/Village Stirling Province Ontario Postal Code K0K3E0

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 183077234911614

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
<u>Black</u>	<u>Topsoil</u>			<u>0 ft</u>	<u>1 ft</u>
<u>Grey/Brown</u>	<u>Rocky Sand</u>			<u>1 ft</u>	<u>5 ft</u>
<u>Grey</u>	<u>Shale</u>			<u>5 ft</u>	<u>7 ft</u>

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)
<u>0</u>	<u>2.5</u>	<u>Clay</u>	<u>20</u>

Results of Well Yield Testing

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

If pumping discontinued, give reason: _____

Pump intake set at (m/ft) 1.2

Pumping rate (l/min / GPM) 585 GPM

Duration of pumping _____ hrs + 60 min

Final water level end of pumping (m/ft) _____

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

Recommended pump depth (m/ft) _____

Recommended pump rate (l/min / GPM) _____

Well production (l/min / GPM) _____

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
1		1		
2		2		
3		3		
5		5		
15				
25				
30				
40				
50				
60				

(DUG WELL)
RECOVERY
RESERVE
20 GPM
10000 Gal.

Method of Construction

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<u>90</u>	<u>Concrete</u>	<u>01</u>	<u>0</u>	<u>4.6</u>	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

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

Water Details

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

Hole Diameter

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

Well Contractor and Well Technician Information

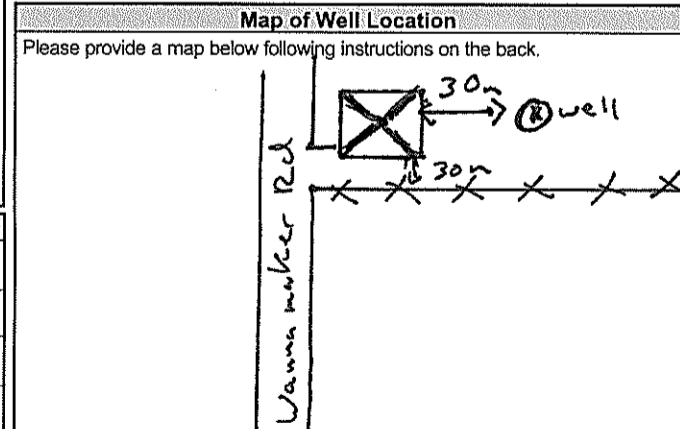
Business Name of Well Contractor Frank's Drilling & Blasting Well Contractor's Licence No. 68811

Business Address (Street Number/Name) Box 100 Municipality Newburg

Province ONT Postal Code K0K2S0 Business E-mail Address _____

Bus. Telephone No. (inc. area code) 613 378 2178 Name of Well Technician (Last Name, First Name) Parr, Greg

Well Technician's Licence No. 2603 Signature of Technician and/or Contractor _____ Date Submitted 2011/12/20



Comments: _____

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>2012/01/05</u>	Audit No. <u>2141842</u>
	Date Work Completed <u>2011/12/15</u>	Received <u>JAN 09 2012</u>



Measurements recorded in: Metric Imperial

A 110073

Page _____ of _____

Well Owner's Information

First Name: Lidster Homes Ltd., Last Name / Organization: Unk, E-mail Address: Unk, Mailing Address: 1337 Fish & Game Club Road, Municipality: Frankford, Province: Ontario, Postal Code: K0K 2C0, Telephone No.: 613 398-7734

Well Location

Address of Well Location: Wannamaker Road, Township: Huntingdon, Lot: 9, Concession: I, City/Town/Village: Centre Hastings, Province: Ontario, Postal Code: UNK, UTM Coordinates: NAD 83 18 307683 4911572

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

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To. Row 1: Grey, Limestone, Well deepened, Hard, 40, 91.

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

Results of Well Yield Testing table with 4 columns: Draw Down (Time, Water Level), Recovery (Time, Water Level), Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction and Well Use checkboxes: Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Not used, Domestic, Municipal, Dewatering, Livestock, Test Hole, Monitoring, Irrigation, Cooling & Air Conditioning, Industrial, Other.

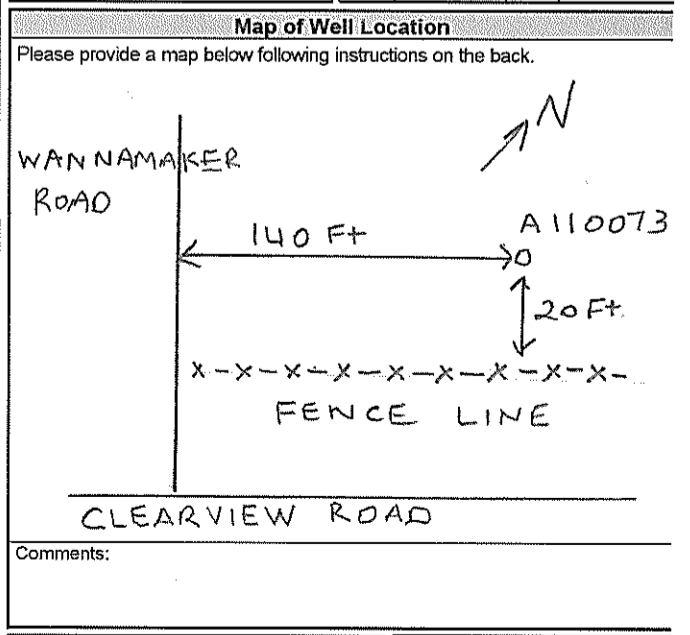
Construction Record - Casing table with 5 columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From To, Status of Well (Water Supply, Replacement Well, etc.)

Construction Record - Screen table with 5 columns: Outside Diameter, Material, Slot No., Depth (m/ft) From To, Status of Well (Abandoned, Insufficient Supply, etc.)

Water Details and Hole Diameter table with 4 columns: Water found at Depth, Kind of Water, Depth (m/ft) From To, Diameter (cm/in).

Well Contractor and Well Technician Information: Business Name: Chalk Well Drilling Ltd., Well Contractor's Licence No.: 1507, Business Address: 31 Johnson's Side Road, Municipality: Napanee, Province: Ontario, Postal Code: K7R 3L1, Business E-mail Address: chalkwel kos.net

Well Technician Information: Name of Well Technician: Chalk, Dan, Signature: Dan Chalk, Date Submitted: 2011/09/23, Well Technician's Licence No.: 3304



Ministry Use Only: Audit No: 2132737, Date Package Delivered: 2011/09/23, Date Work Completed: 2011/09/23, Received: JAN 26 2012



Well Tag No. (Place Sticker and/or Print Below)
Well Decommissioned
A110073

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name Last Name / Organization E-mail Address
Lidster Homes Ltd. Ubk.
Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (inc. area code)
1337 Fish & Game Club Rd. Frankford Ontario K0K 2C0 613-398-7734

Well Location

Address of Well Location (Street Number/Name) Township Lot Concession
Wannamaker Rd. #481 Huntingdon 9 I
County/District/Municipality City/Town/Village Province Postal Code
Hastings Centre Hastings Ontario Utk.
UTM Coordinates Zone Easting Northing
NAD 83 18 307683 4911572
Municipal Plan and Sublot Number Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes entries for Bentonite and Well Decommissioned.

Table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³). Includes entry for Bentonite sealant.

Method of Construction Well Use
Cable Tool, Rotary, Boring, etc.
Diamond, Jetting, Digging, etc.
Public, Commercial, Domestic, Municipal, etc.
Not used, Dewatering, etc.

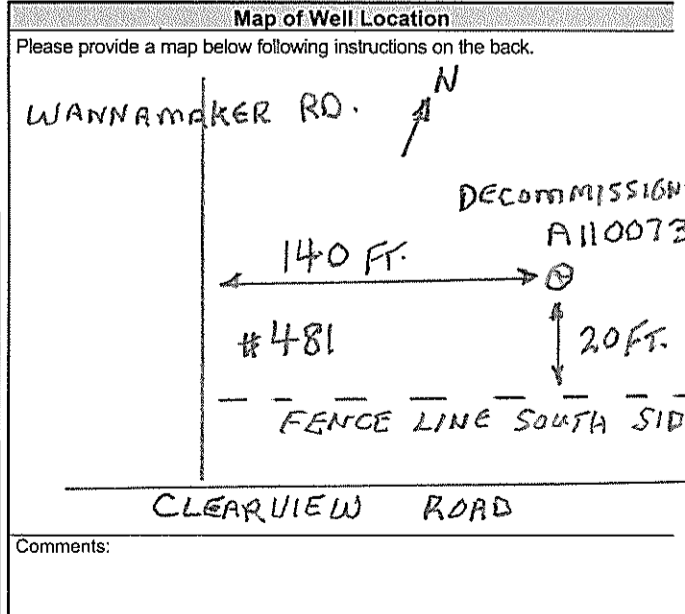
Construction Record - Casing Status of Well
Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft)
Water Supply, Replacement Well, Test Hole, etc.
Construction Record - Screen
Outside Diameter, Material, Slot No., Depth (m/ft)
Abandoned, Insufficient Supply, etc.

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

Well Contractor and Well Technician Information
Business Name of Well Contractor Well Contractor's Licence No.
Chalk Well Drilling Ltd. 1507
Business Address (Street Number/Name) Municipality
31 Johnsons Side Rd. Napanee
Province Postal Code Business E-mail Address
Ontario K7R 3L1 chalkwel kos.net

Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)
813-388-2809 Chalk, Kevin
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted
T-627 Kevin Chalk 2012 01 16

Results of Well Yield Testing
After test of well yield, water was:
Draw Down Recovery
Time (min) Water Level (m/ft) Time (min) Water Level (m/ft)
Static Level
1 1
Pump intake set at (m/ft)
2 2
Pumping rate (l/min / GPM)
3 3
Duration of pumping
4 4
hrs + min
5 5
Final water level end of pumping (m/ft)
10 10
If flowing give rate (l/min / GPM)
15 15
20 20
Recommended pump depth (m/ft)
25 25
Recommended pump rate (l/min / GPM)
30 30
Well production (l/min / GPM)
40 40
50 50
60 60
Disinfected?
Yes No



Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No.
Z141048
MAR 28 2012



Measurements recorded in: Metric Imperial

No tag hole abandoned

Page _____ of _____

Well Owner's Information

First Name: Ace Septic Pumping, Last Name / Organization: Ace Septic Pumping, E-mail Address: Unk., Telephone No.: 613-968-5990

Well Location

Address of Well Location: Clearview Rd., Township: Thurlow, Lot: 14, Concession: 9, City/Town/Village: Belleville, Province: Ontario, Postal Code: Unk.

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From/To. Rows include Brown Clay Till, Grey Limestone, etc.

Abandonment table with 3 columns: Depth Set at (m/ft) From/To, Type of Sealant Used, Volume Placed (m³/ft³). Rows show sealant types like Pea Stone and Bentonite.

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

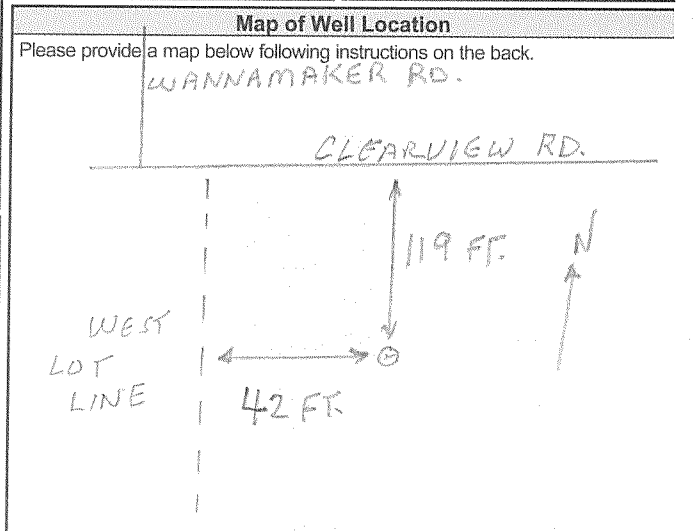
Construction Record - Casing table with columns for Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, and Status of Well.

Construction Record - Screen table with columns for Outside Diameter, Material, Slot No., and Depth.

Water Details and Hole Diameter section with checkboxes for water type and diameter measurements.

Well Contractor and Well Technician Information section with fields for Business Name, Address, and Technician Name.

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



Comments section for additional notes.

Well owner's information package delivered, Date Package Delivered, Date Work Completed, and Ministry Use Only Audit No. 2216001.

A 148 305

Measurements recorded in: Metric Imperial

Page of

Address of Well Location (Street Number/Name): Clearview Rd.
 Township: Thurlow Lot: A 13+14 Concession: 9
 County/District/Municipality: Hastings City/Town/Village: Belleville Province: Ontario Postal Code: L0K 2Y0
 UTM Coordinates: Zone: Easting: Northing: NAD 83 18 30 7847 49 11 338 Municipal Plan and Sublot Number: 15-8347 Other: East

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 Gray	Clay Limestone	Rocks	Rocky Clay	0	2.7 2.7-6.5

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	2.5	Clay	20

Method of Construction

Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Other, specify

Well Use

Public Domestic Livestock Irrigation Industrial Other, specify

Commercial Municipal Test Hole Cooling & Air Conditioning

Not used Dewatering Monitoring

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 6.5

Pumping rate (l/min / GPM): 585

Duration of pumping: hrs + 60 min

Final water level end of pumping (m/ft): 6.5

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 20+

Recommended pump rate (l/min / GPM): 7700 GALS

Well production (l/min / GPM): 90+

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
1	1.4	1	6.5	
2				
3				
4				
5				
10				
15				
20				
25				
30				
40				
50				
60	6.5	60	5.6	

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
90	Concrete	3	0	6.5	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen

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

Water Details

Water found at Depth: 3 (m/ft) Gas Other, specify

Kind of Water: Fresh Untested

Hole Diameter

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: Frank's Drilling & Blasting
 Well Contractor's Licence No.: 6881
 Business Address (Street Number/Name): Box 100
 Municipality: Newburgh
 Province: Ontario Postal Code: L0K 2S0 Business E-mail Address: info@fdltd.com
 Name of Well Technician (Last Name, First Name): Pam Goss
 Well Technician's Licence No.: 2603
 Signature of Technician and/or Contractor: [Signature]
 Date Submitted: 2015/11/24

Map of Well Location

Please provide a map below following instructions on the back.

Clearview Rd.

Comments:

Well owner's information package delivered: Yes No

Date Package Delivered: 2015/11/18

Date Work Completed: 2015/11/18

Ministry Use Only

Audit No.: 2223207

Received: MAR 14 2016

Measurements recorded in: Metric Imperial

A 148 306

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Address of Well Location (Street Number/Name) Clearview Rd. Township Thurlow Lot P+13+14 Concession 9
 County/District/Municipality Hastings City/Town/Village Belleville Province Ontario Postal Code K0G 2Y0
 UTM Coordinates Zone 18 Easting 307721 Northing 4911295 Municipal Plan and Sublot Number 15-8342

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Rockes	Rocky Clay	0	2.1
Grey	Limestone			2.1	6.5

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To	
0	2.5 Clay	20

Results of Well Yield Testing

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level	1.5		4.3	
1		1		
2				
3		3		
4				
5				
10		10		
15				
20		20		
25				
30		30		
40		40		
50		50		
60	4.3	60	3.9	

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

If pumping discontinued, give reason:
 Pump intake set at (m/ft) 6.5
 Pumping rate (l/min / GPM) 585
 Duration of pumping hrs + 60 min
 Final water level end of pumping (m/ft) 4.3
 If flowing give rate (l/min / GPM) _____

Recommended pump depth (m/ft) 20
 Recommended pump rate (l/min / GPM) _____
 Well production (l/min / GPM) _____
 Disinfected? Yes No

Method of Construction

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
90	Concrete	3	0	6.5	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

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

Water Details

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

Hole Diameter

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

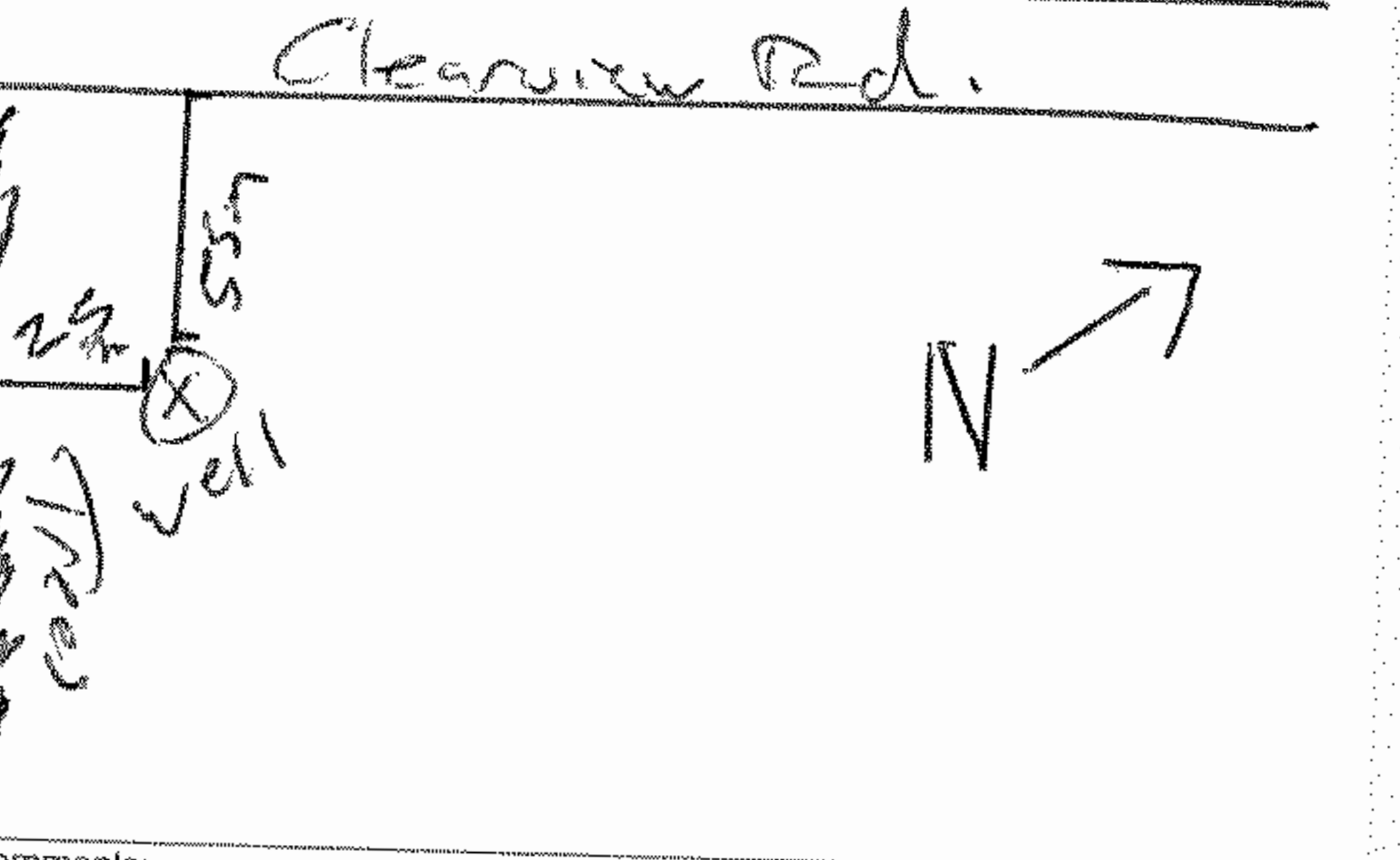
Well Contractor and Well Technician Information

Business Name of Well Contractor Frank's Drilling & Blasting Ltd. Well Contractor's Licence No. 6881
 Business Address (Street Number/Name) Box 100 Municipality Newburgh
 Province Ontario Postal Code K0K 2S0 Business E-mail Address info@fdntd.com

Name of Well Technician (Last Name, First Name) Pam Green
 Well Technician's Licence No. 2603 Signature of Technician and/or Contractor [Signature] Date Submitted 2015/11/24

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered Yes No

Date Package Delivered 2015/10/19
 Date Work Completed 2015/11/19

Ministry Use Only
 Audit No. 2223208
 MAR 14 2016

All measurements recorded in: Metric Imperial

Follow instructions on the front and back of this form. Print or Type

Well Tag No. of Deepest Well: (Print Well Tag No.)
A037934 MW#6
Well # on Drawing of Deepest Well: MW4

Well Cluster Location Information					Mandatory Attachments/Additional Information	
Address of Well Location (Street Number(s)/Name(s), RR, if available)		Lot(s)	Concession(s)	Geographic Township	County/District/Upper Tier Municipality	
1100 Clearview Road		12,13+14	9	Thurlow	Hastings	
City, Town, Village or Hamlet		Province	GPS Unit Make	Model	Unit Mode of Operation <input type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify: _____	
Stirling		Ontario	Garmin	Etrex		

Land Owner Consent Form must be attached.
 Detailed Drawing of All Well Locations must be attached.
I, the person constructing the well, will promptly submit to the Director, on request, any additional information in my custody or control related to any well in the well cluster that I have constructed.

Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____

Well # on Drawing	UTM Coordinates		Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material; Diameter (cm/in)	Casing (m/ft)		Screen Interval (m/ft)		Annular Space Material (m/ft)			Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)
	Zone	Easting					Northing	From	To	From	To	From	To			
MW4	18	07385	111027	7.31	2"	2" PVC							Grout cement mix 7.31 to 1.82, Bentonite plug 1.82 - 0			
MW1	18	07474	111070	5.06	2"	2" PVC							Grout cement mix 5.06 to 1.53, Bentonite plug 1.53 - 0			
MW2	18	07484	111009	4.73	2"	2" PVC							Grout cement mix 4.73 to 1.52, Bentonite plug 1.52 - 0			
MW3	18	07484	110959	4.38	2"	2" PVC							Grout cement mix 4.38 to 1.21, Bentonite plug 1.21 - 0			
MW5	18	07575	110993	4.90	2"	2" PVC							Grout cement mix 4.90 to 1.52, Bentonite plug 1.52 - 0			
MW6	18	07586	110947	4.82	2"	2" PVC							Grout cement mix 4.82 to 1.67, Bentonite plug 1.67 - 0			
MW8	18	07739	110721	3.69	2"	2" PVC							Grout cement mix 3.69 to 1.21, Bentonite plug 1.21 - 0			
MW9	18	07952	110761	3.87	2"	2" PVC							Grout cement mix 3.87 to 1.37, Bentonite plug 1.37 - 0			
MW7	18	079103	111101	4.15	2"	2" PVC							Grout cement mix 4.15 to 1.52, Bentonite plug 1.52 - 0			

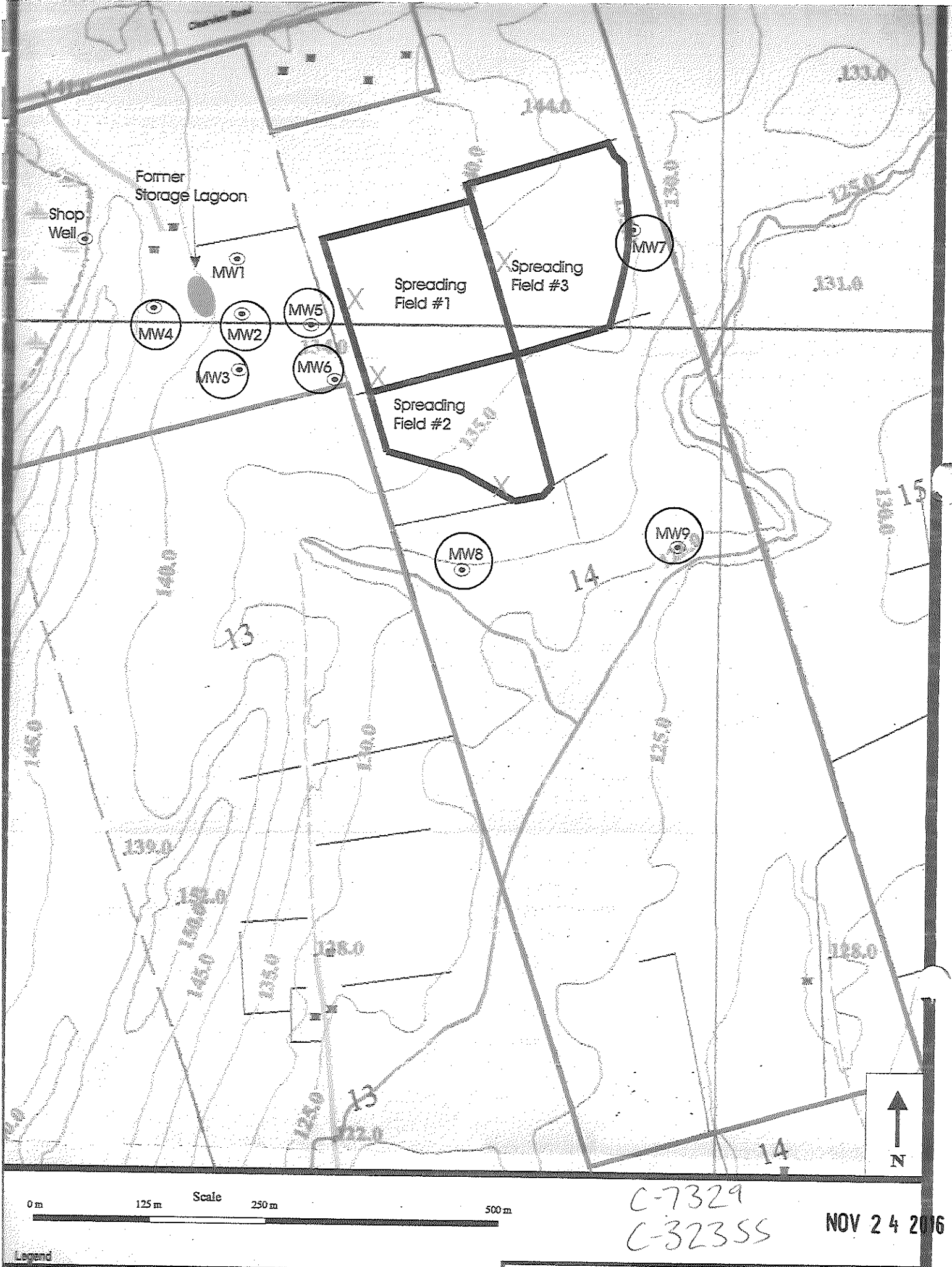
Well Contractor and Well Technician Information				Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)		Date Last Well in Cluster Completed (yyyy/mm/dd)		Ministry Use Only	
Business Name of Well Contractor		Business Address (Street Number/Name, RR)		Municipality	Province			Date Received (yyyy/mm/dd)	Audit No.
Well Busters Canada Inc		673 Wallbridge Loyalist Rd		Belleville	ON			NOV 24 2016	C 32355
Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address					Comments:	
K8N 4L2S	613-968-1474	7329							
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Signature of Well Technician	Date Submitted (yyyy/mm/dd)					
Stewart Hitchon		1041		2016/11/17					
				Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)		Date Last Well in Cluster Completed (yyyy/mm/dd)			
				2016/11/15		2016/11/15			
				Well Abandonment					
				Person Abandoning the Wells:					
				Name Stewart Hitchon					
				(Print or Type) - See instruction 11 on the back of this form					

Note: This Well Record for Well Cluster Part 3 - Detailed Drawing of all Well Locations, must be attached to Parts 1 and 2. The drawing must include all property boundaries, an arrow indicating the North direction, all named roads and sufficient measurements to locate all wells in the cluster in relation to fixed points. The drawing must show the location of each well and each well must be numbered on the drawing to match number used for that well on the Well Record for Well Cluster Parts 1 and 2. The well with the well tag must be clearly identified on the Drawing.

UTM coordinates should appear beside each well, if space permits. Additional comments on wells can be included on the drawing

Well Tag Number: # A037934

"Well Record for Well Cluster" Form Audit Number: # _____



Measurements recorded in: Metric Imperial

Page ___ of ___

A334393

Well Owner's Information

First Name: _____ Last Name/Organization: **ACE SEPTIC** E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): **1100 Clearview Rd** Municipality: **Belleville** Province: **Ontario** Postal Code: **K0H1Z60** Telephone No. (Inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **1100 Clearview Rd.** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: **Hastings County** City/Town/Village: **Belleville** Province: **Ontario** Postal Code: **K0H1Z60**

UTM Coordinates Zone: **18** Easting: **307484** Northing: **4911210** Municipal Plan and Sublot Number: _____ Other: _____

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
				From To
Brown	topsoil			0 1
Brown	clay			1 4
Grey	Limestone			4 20.5

(Measurements taken from lid)

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From To		
0 10	Non-toxic Caulking	

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): **22**

Pumping rate (l/min / GPM): **50**

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

Final water level end of pumping (m/ft): **12**

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

Recommended pump depth (m/ft): **22**

Recommended pump rate (l/min/GPM): **10 gpm pump tested @ 20 gpm**

Well production (l/min/GPM): **30000**

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level	9		12	
1				
2				
3				
4				
5				
10				
15				
20				
25				
30				
40				
50				
60				

Handwritten notes: This is a dug well tested at 20 gpm therefore it's equal to or greater than reserve.

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
36	Concrete	4	2.5	20.5	<input checked="" type="checkbox"/> Water Supply

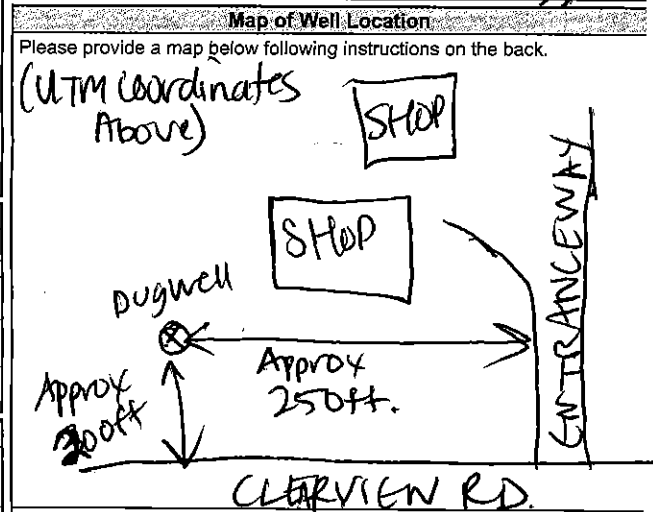
Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify _____ Other, specify _____

Construction Record - Screen

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

Water Details

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



Well Contractor and Well Technician Information

Business Name of Well Contractor: **G-Logic Water Ltd** Well Contractor's Licence No.: **77117**

Business Address (Street Number/Name): **352 Marsh Rd** Municipality: **Belleville**

Province: **Ont** Postal Code: **K0H1Z7** Business E-mail Address: **glogicwater@live.ca**

Bus. Telephone No. (Inc. area code): **6138858696** Name of Well Technician (Last Name, First Name): **Quigley, Jimmie**

Well Technician's Licence No.: **3913** Signature of Technician and/or Contractor: _____ Date Submitted: **2022/09/02**

Well owner's information package delivered: Yes No

Date Package Delivered: **2022/09/07**

Date Work Completed: **2022/09/07**

Ministry Use Only

Audit No.: **2392509**

Received: **SEP 26 2022**



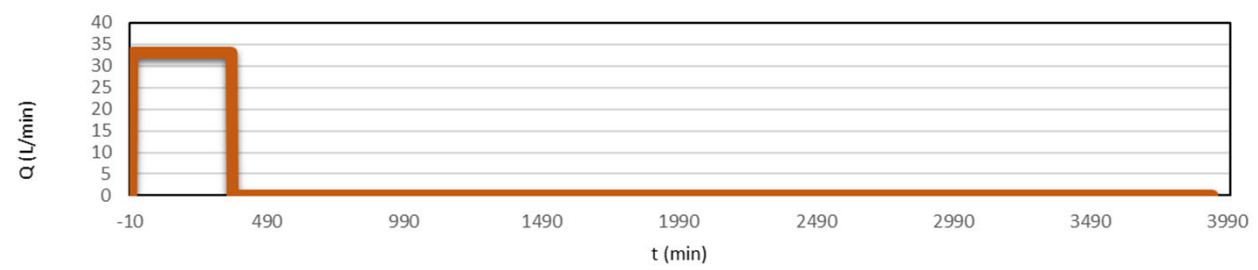
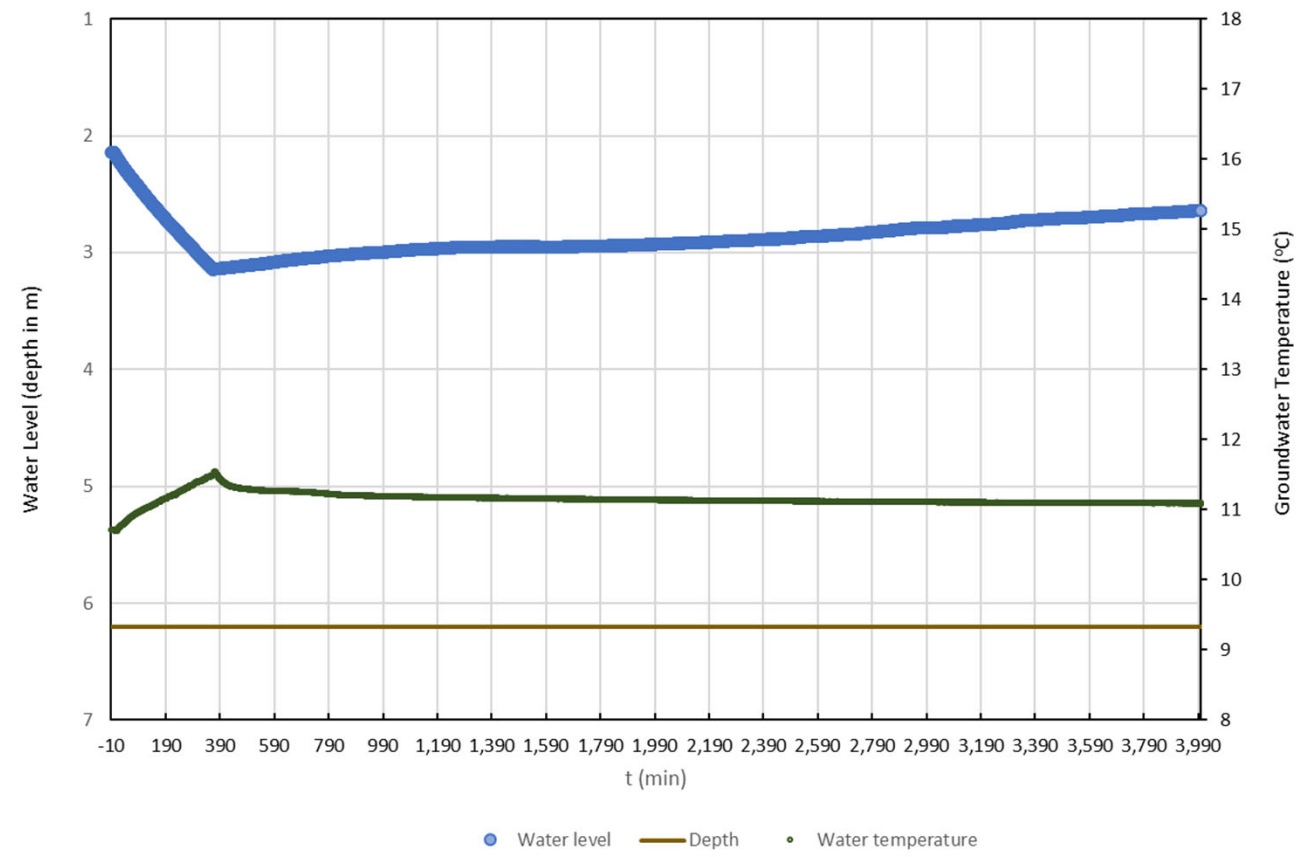
Appendix B: Hydrographs



GREER GALLOWAY
CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.



Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

FIGURE 1:
WELL HYDROGRAPH - A334393
OCTOBER 9, 2025

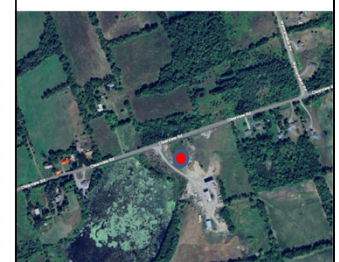


GREER GALLOWAY
CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-366-3068
FAX: 613-966-3087

NOTES:

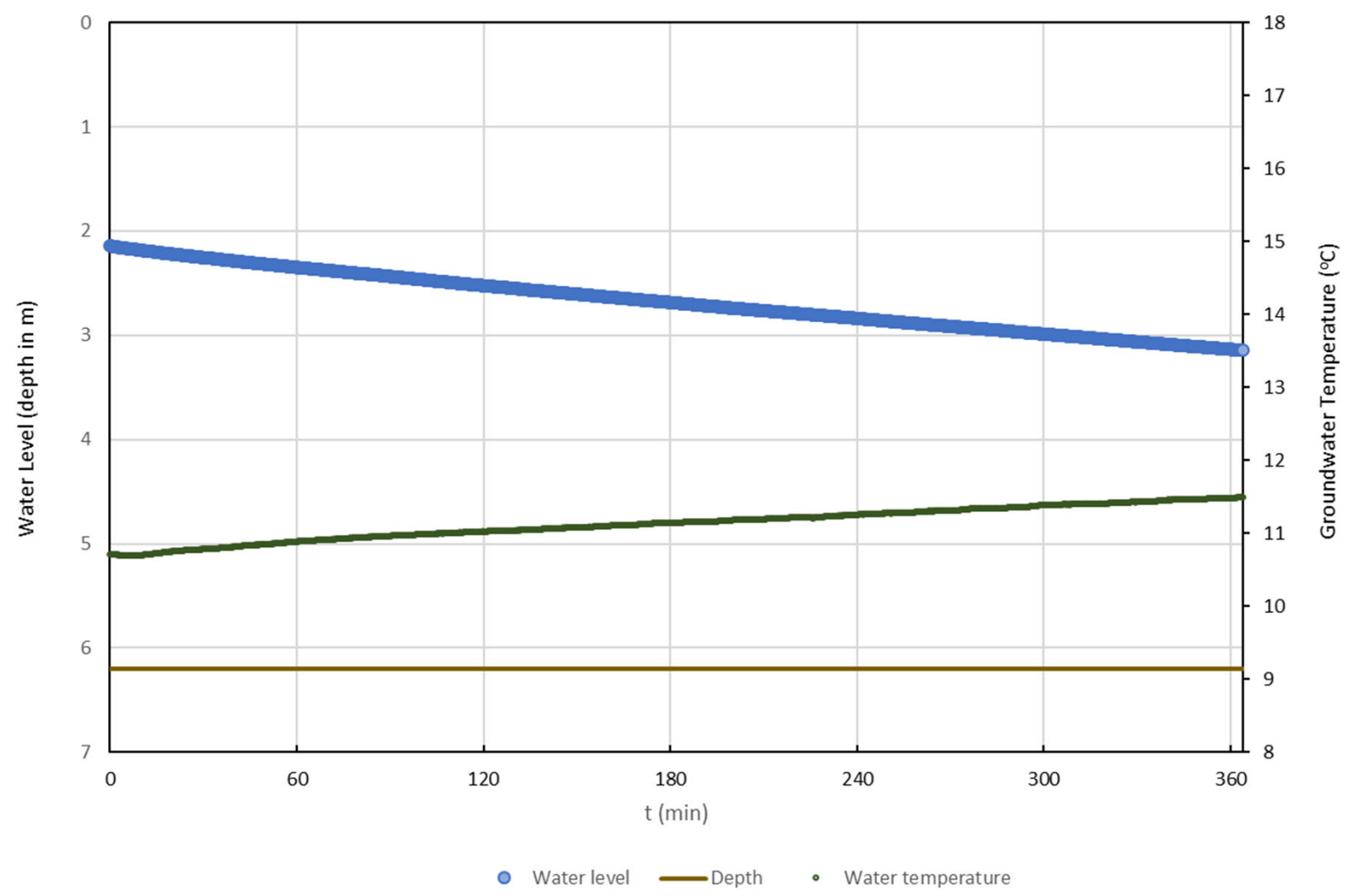
- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.

Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

FIGURE 2:
WELL HYDROGRAPH – A334393 DRAWDOWN
OCTOBER 9, 2025

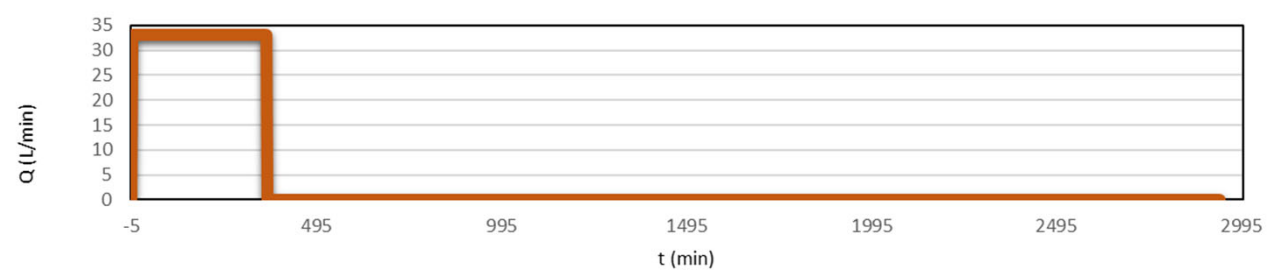
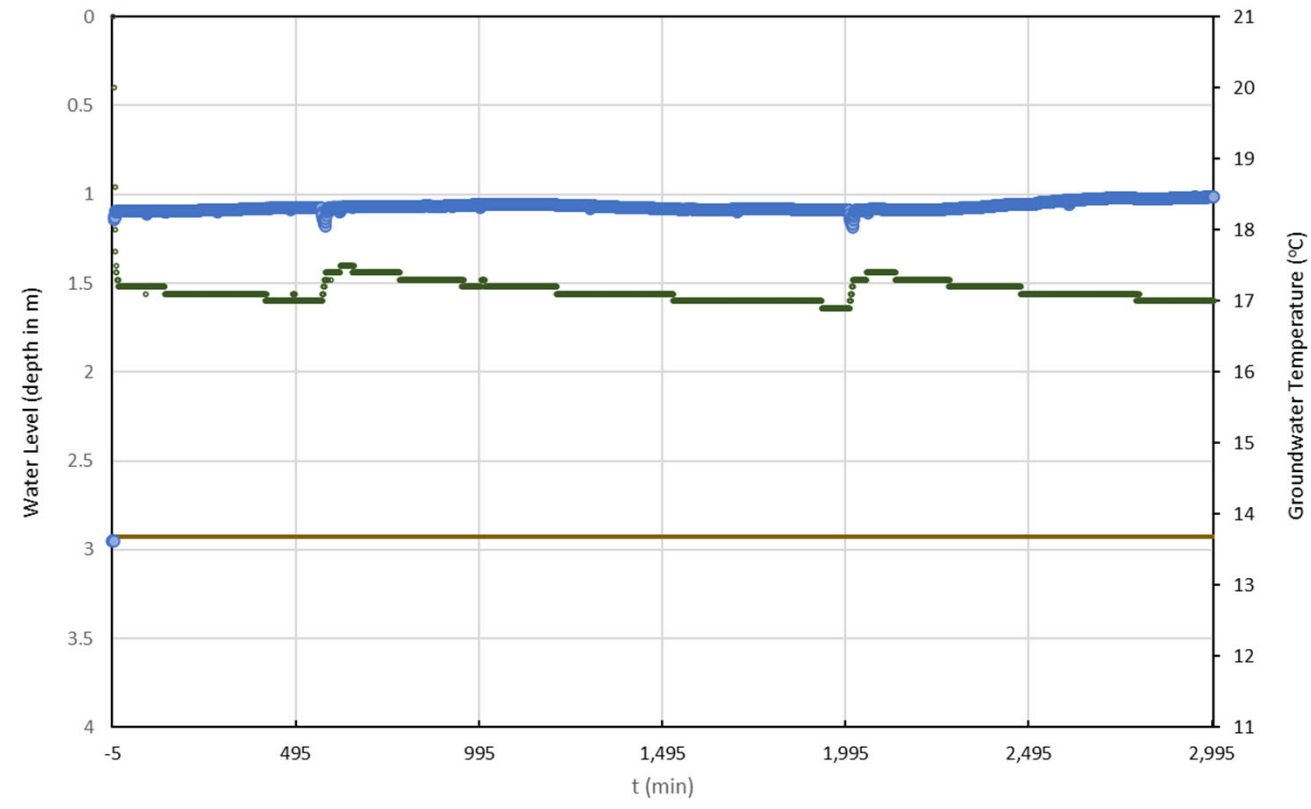




GREER GALLOWAY
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BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
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Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

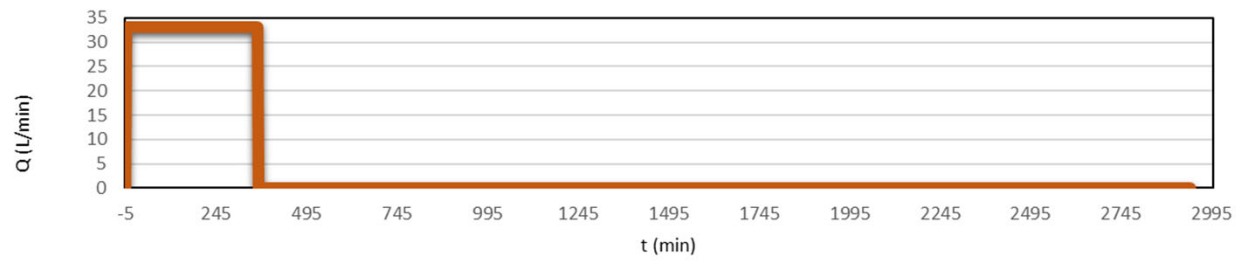
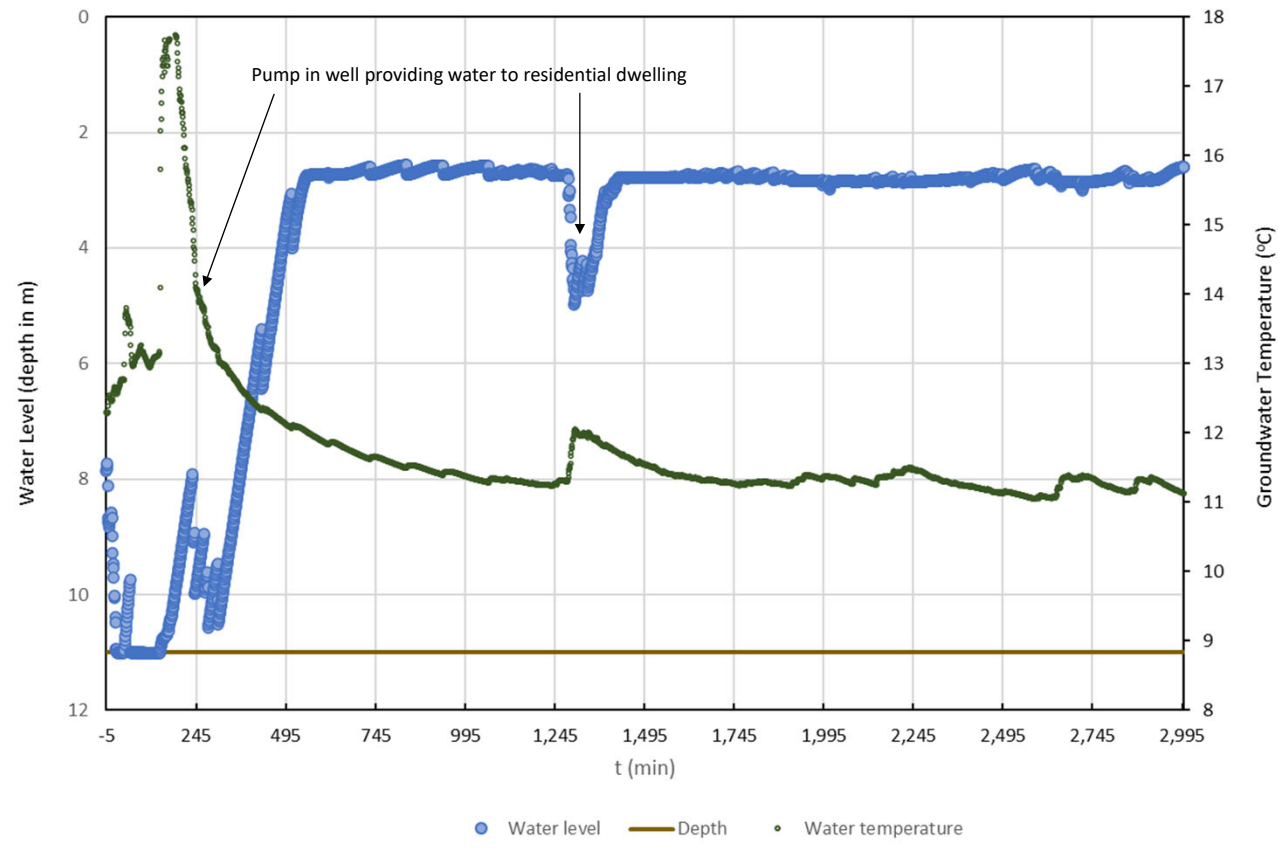
FIGURE 3:
WELL HYDROGRAPH – RETAINED LANDS
OCTOBER 9, 2025



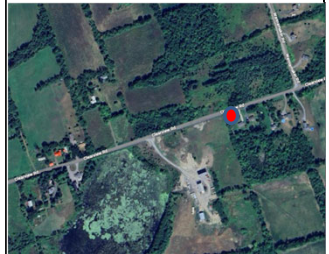
GREER GALLOWAY
CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

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- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.



Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

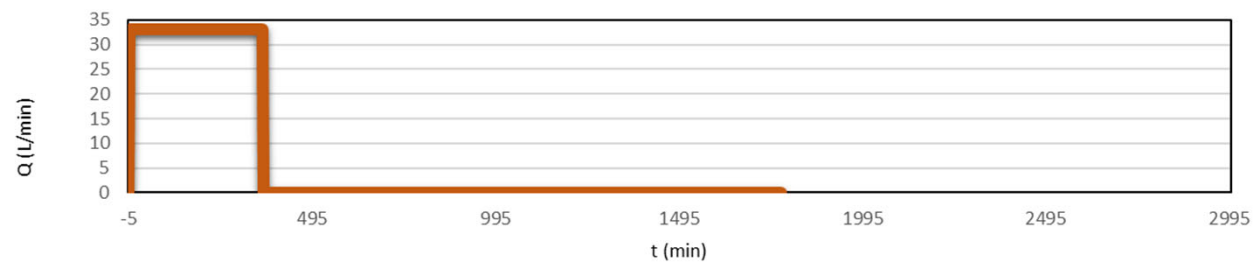
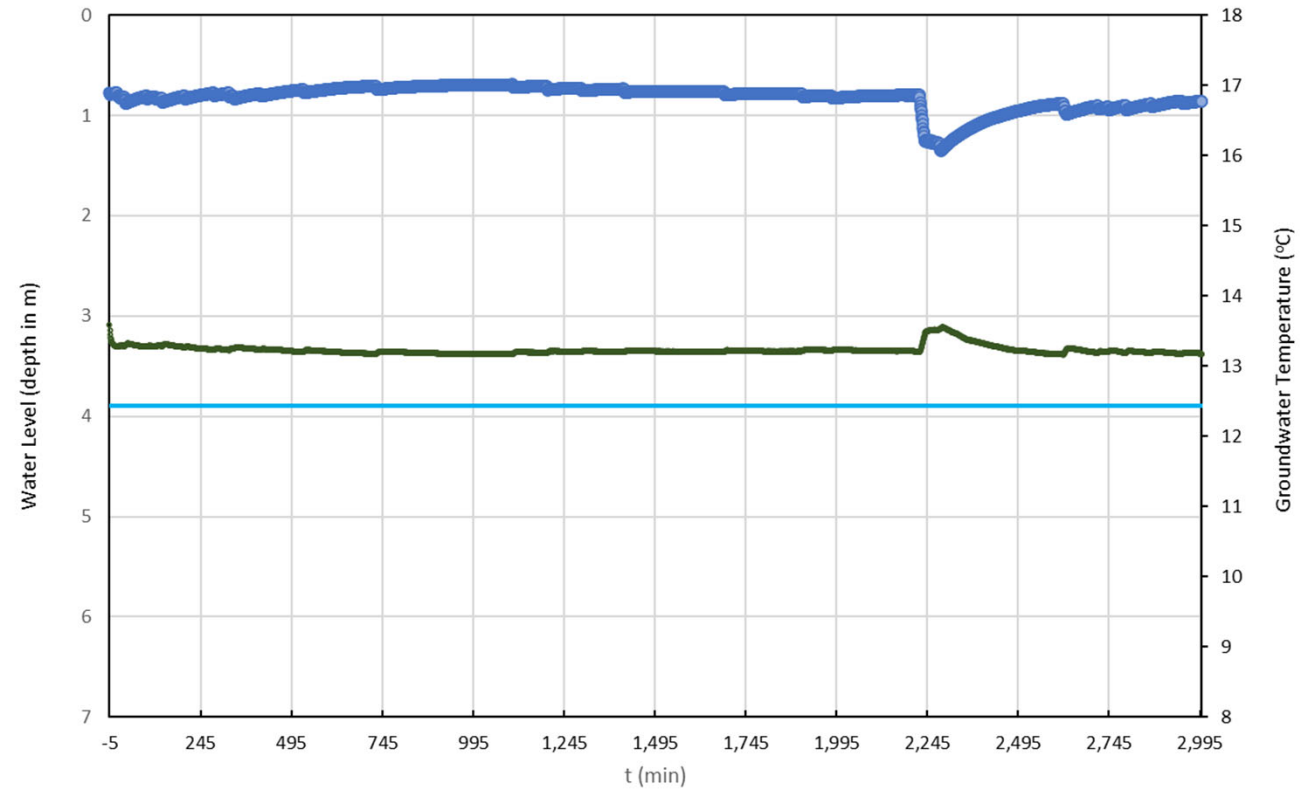
FIGURE 4:
WELL HYDROGRAPH – 1152 CLEARVIEW ROAD
OCTOBER 9, 2025



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CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.



Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

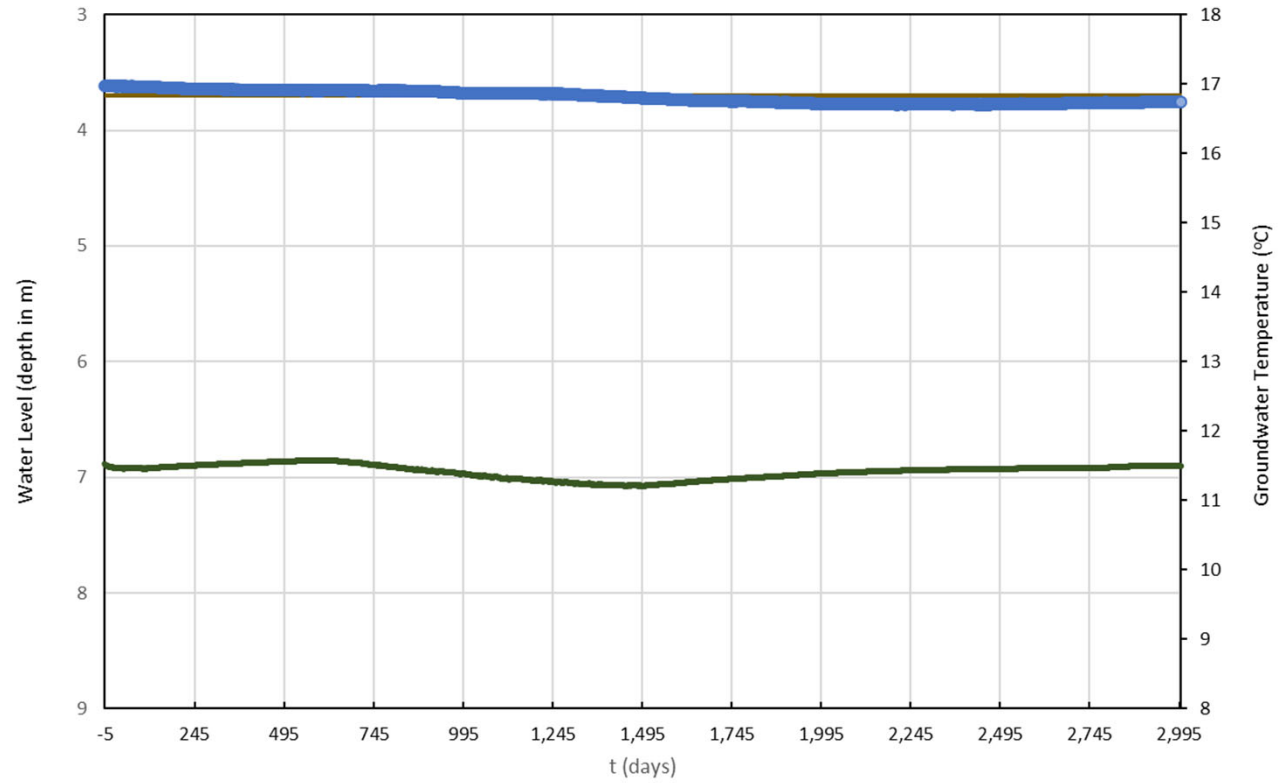
FIGURE 5:
WELL HYDROGRAPH - 1054 CLEARVIEW ROAD
OCTOBER 9, 2025



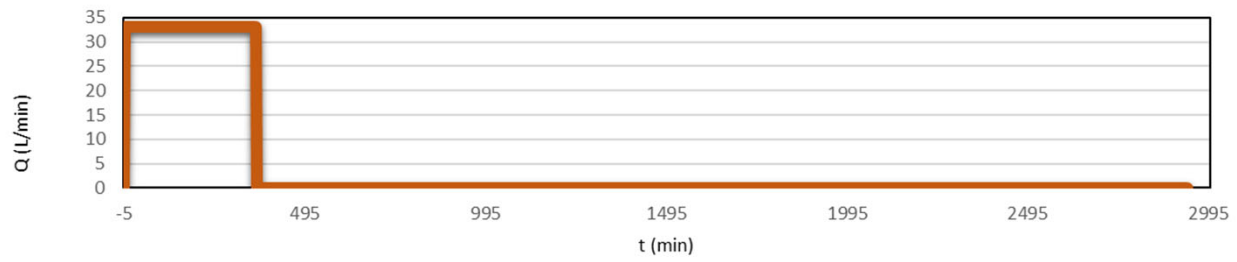
GREER GALLOWAY
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PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

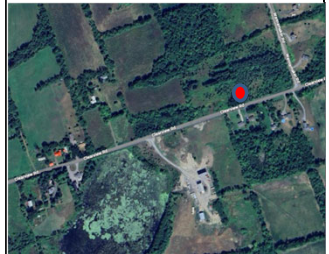
- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.



● Water level — Depth • Water temperature



Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

FIGURE 6:
WELL HYDROGRAPH – A350511
OCTOBER 9, 2025



GREER GALLOWAY
CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

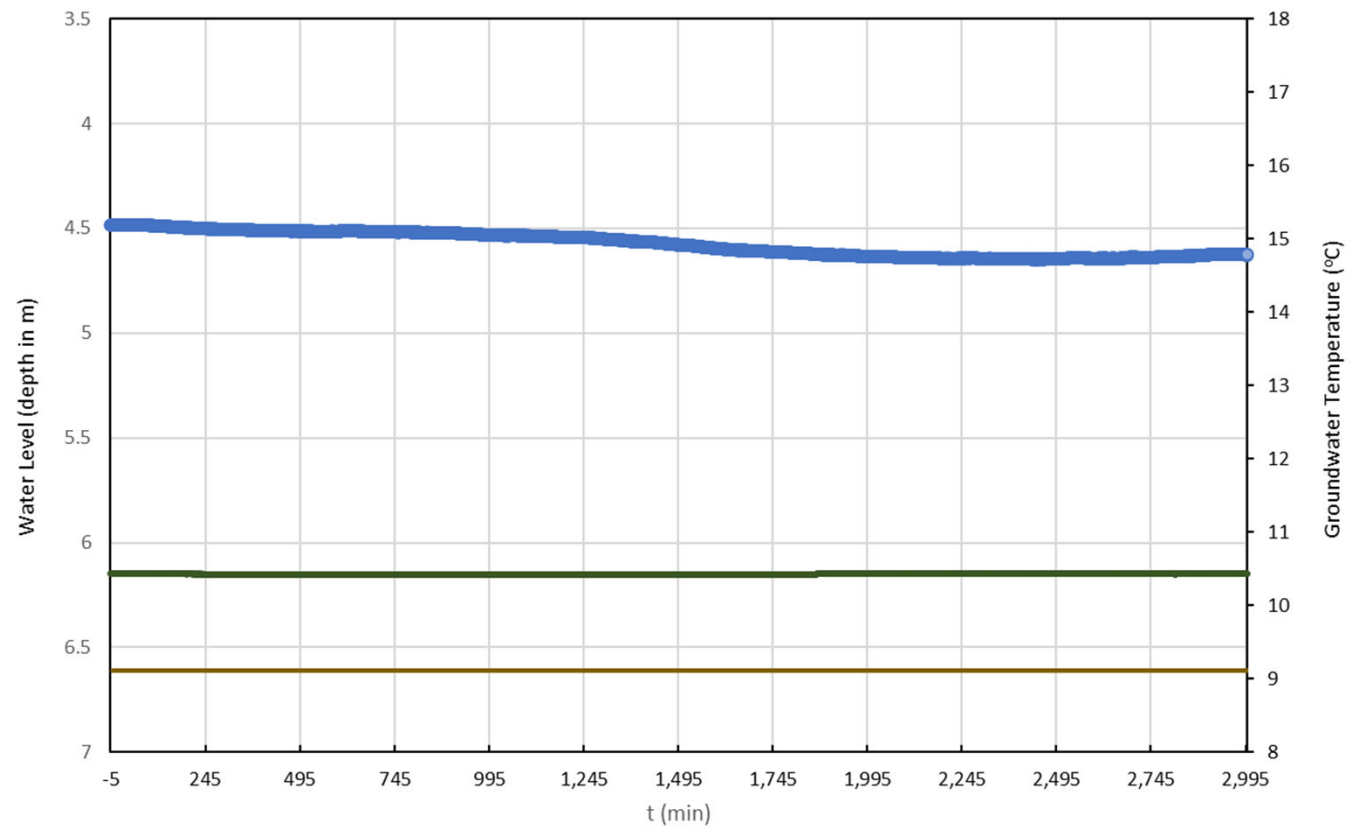
- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.

Key Plan:

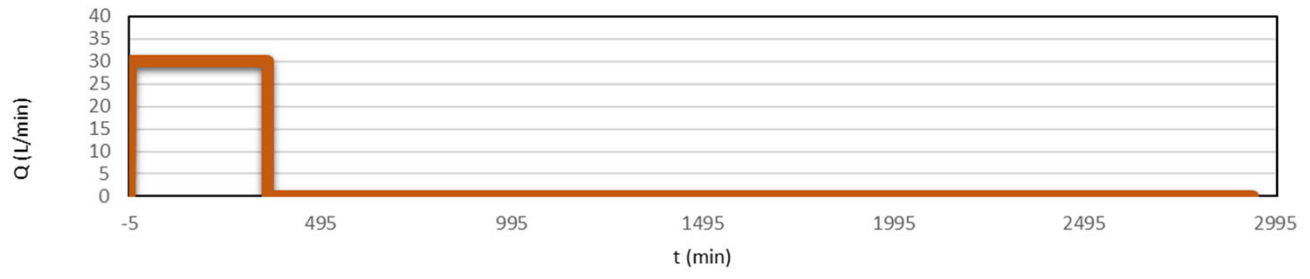


PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

FIGURE 7:
WELL HYDROGRAPH - A402979
OCTOBER 9, 2025



● Water level — Depth • Water temperature

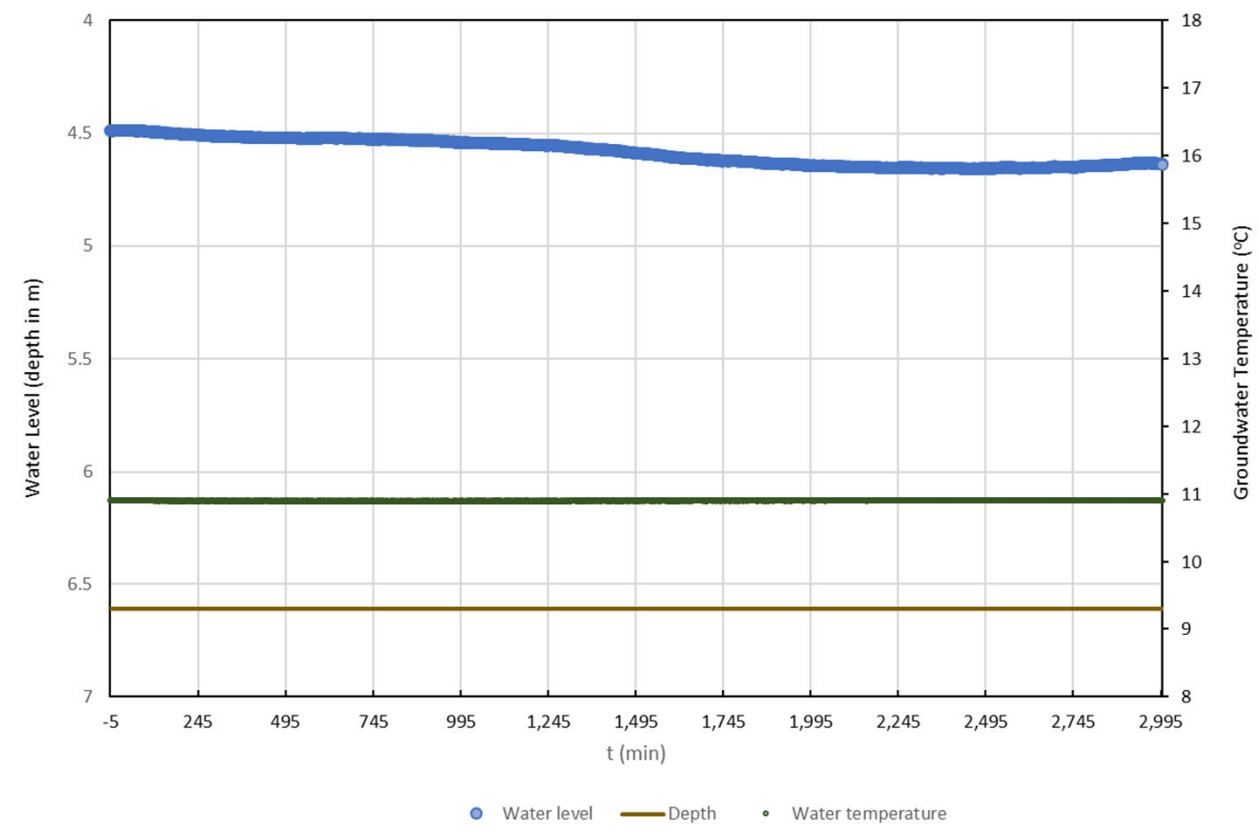




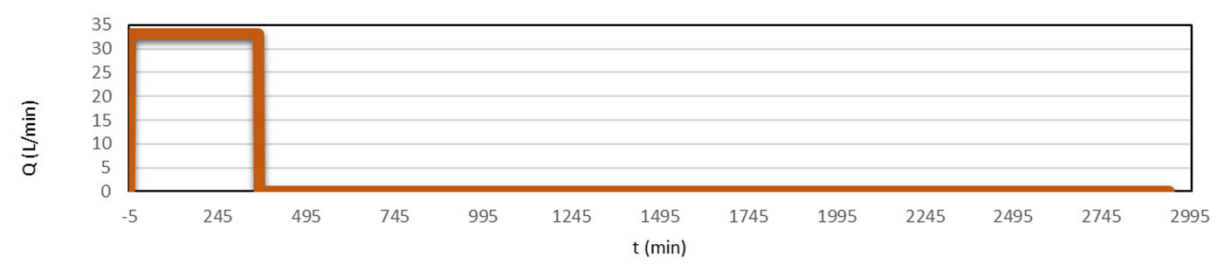
GREER GALLOWAY
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PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

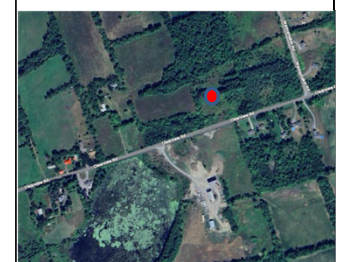
- 1) Quantity testing carried out October 9, 2025
- 2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
- 3) Water level data is not corrected for fluctuations in barometric pressure.



● Water level — Depth • Water temperature



Key Plan:



PROJECT 25-6117A:
HYDROGEOLOGICAL ASSESSMENT
1-LOT SEVERANCE AT 1100 CLEARVIEW ROAD,
BELLEVILLE, ONTARIO

FIGURE 8:
WELL HYDROGRAPH – A402980
OCTOBER 9, 2025



Appendix C: Laboratory Certificates of Analysis

**Table C1: Water Quality Results Test Well
1100 Clearview HydroG**

			Sample ID:	A334393	A334394	
			Date Collected:	9-Oct-25	20-Oct-25	
Parameter	Units	M.D.L.	Reference Method			ODWSOG*
Total Coliform	cfu/100m L	1	E012A.EC/WT	0		0 ^{MAC}
E coli	cfu/100m L	1	E012.TC/WT	0		0 ^{MAC}
Background	cfu/100m L	1	E012.TC/WT	0		
Alkalinity (CaCO3) total	mg/L	5	E290/WT	526		30-500
pH @25°C	pH Units		SM 4500H	7.71		6.5-8.5 ^{OG}
Conductivity @25°C	µS/cm	1	E100/WT	1030		NA
Colour	TCU	2	E330/WT	< 2		5 ^{AO}
Turbidity	NTU	0.1	E121/WT	58		5 ^{AO}
Fluoride	mg/L	0.02	E235.FI/WT	0.3		1.5 ^{MAC}
Chloride	mg/L	0.5	E235.Cl/WT	0.5		250 ^{AO}
Nitrite (N)	mg/L	0.05	E235.NO2/W T	< 0.05		1 ^{MAC}
Nitrate (N)	mg/L	0.05	E235.NO3/W T	< 0.05		10 ^{MAC}
Sulphate	mg/L	1	E235.SO4	19		500
Phosphorus-Total	mg/L	0.01	E372-U/WT	0.03		NA
Total Kjeldahl Nitrogen	mg/L	0.1	E318/WT	1		NA
Dissolved Organic Carbon	mg/L	0.8	E358-L/WT	3.3		5 ^{AO}
Lead	mg/L	0.00002	E420/WT	0.00012		0.01 ^{MAC}
Hardness (as CaCO3)	mg/L	0.5	EC100A/WT	522		80-100 ^{OG}
Sulphide	mg/L	0.01	E395/VA	< 0.01		0.05 ^{AO}
Calcium	mg/L	0.02	E420/WT	169		NA
Iron	mg/L	0.005	E420/WT	5.13	0.1	0.3 ^{AO}
Magnesium	mg/L	0.02	E420/WT	24.3		NA
Manganese	mg/L	0.001	E420/WT	0.711	0.3	0.05 ^{AO}
Sodium	mg/L	0.05	E420/WT	29		20/200 ^{AO}

*Ontario Drinking Water Standards, Objectives and Guidelines

C.O.C.: 1100 Clearview Rd

REPORT No: 25-031295 - Rev. 0

Report To:

Greer Galloway, a division of Jp2g Consultants Inc.
 1620 Wallbridge-Loyalist Road, RR #5
 Belleville, ON K8N 4Z5

CADUCEON Environmental Laboratories

285 Dalton Ave
 Kingston, ON K7K 6Z1

Attention: David Cooper

DATE RECEIVED: 2025-Oct-10
 DATE REPORTED: 2025-Oct-17
 SAMPLE MATRIX: Drinking Water

CUSTOMER PROJECT: 1100 Clearview Rd
 P.O. NUMBER: PO#25-6117A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2025-Oct-15	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2025-Oct-14	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2025-Oct-15	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2025-Oct-10	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	SLOZO	2025-Oct-14	C-OC-01	EPA 415.2
ICP/MS (Liquid)	1	OTTAWA	GFENTON	2025-Oct-14	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2025-Oct-14	D-ICP-01	SM 3120B
Sulphide (Liquid)	1	KINGSTON	MWILSON	2025-Oct-10	H2S-001	SM 4500-S2
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2025-Oct-16	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	1	OTTAWA	ABAILEY	2025-Oct-14	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

Parameter	Units	R.L.	Client I.D.
			A334393
			Sample I.D.
			25-031295-1
			Date Collected
			2025-10-09
			-
Total Coliform (DC Media)	CFU/100mL	1	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	526
Conductivity @25°C	uS/cm	1	1030
pH @25°C	pH units	-	7.71
Colour	TCU	2	<2
Turbidity	NTU	0.1	58.0 (17)
Fluoride	mg/L	0.1	0.3
Chloride	mg/L	0.5	22.9
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	19
Phosphorus (Total)	mg/L	0.01	0.03
Total Kjeldahl Nitrogen	mg/L	0.1	1.0
Dissolved Organic Carbon	mg/L	0.8	3.3
Sulphide	mg/L	0.01	<0.01
Hardness (as CaCO3)	mg/L as CaCO3	0.02	522
Calcium	mg/L	0.02	169
Iron	mg/L	0.005	5.13
Magnesium	mg/L	0.02	24.3



Michelle Dubien
Data Specialist

			Client I.D.	A334393
			Sample I.D.	25-031295-1
			Date Collected	2025-10-09
Parameter	Units	R.L.		-
Manganese	mg/L	0.001		0.711
Sodium	mg/L	0.2		29.0
Lead	mg/L	0.00002		0.00012

Comments:

17. Analyzed past holding time



Michelle Dubien
Data Specialist

C.O.C.: DW

REPORT No: 25-032512 - Rev. 0

Report To:

Greer Galloway, a division of Jp2g Consultants Inc.
 1620 Wallbridge-Loyalist Road, RR #5
 Belleville, ON K8N 4Z5

CADUCEON Environmental Laboratories

285 Dalton Ave
 Kingston, ON K7K 6Z1

Attention: David Cooper

DATE RECEIVED: 2025-Oct-22
 DATE REPORTED: 2025-Oct-24
 SAMPLE MATRIX: Drinking Water

CUSTOMER PROJECT: 1100 Clearview Rd
 P.O. NUMBER: 25-6117A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2025-Oct-23	D-ICP-01	SM 3120B

R.L. = Reporting Limit

NC = Not Calculated

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

		Client I.D.	A334393
		Sample I.D.	25-032512-1
		Date Collected	2025-10-20
Parameter	Units	R.L.	-
Iron	mg/L	0.005	0.100
Manganese	mg/L	0.001	0.300



Michelle Dubien
Data Specialist