patersongroup

Consulting Engineers

154 Colonnade Road Ottawa, Ontario Canada, K2E 7J5 Tel: (613) 226-7381

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Dymech Engineering Inc. 1359 Coker Street, Ottawa (Greely), ON K4P 1A1 Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science

www.patersongroup.ca

Attention: Mat Main

Subject:

Hydrogeological Assessment and Terrain Analysis 1353 Coker Street Ottawa (Greely), Ontario

HYDROGEOLOGICAL ASSESSMENT

INTRODUCTION

Further to your request, Paterson Group (Paterson) conducted a Hydrogeological Assessment and Terrain Analysis in support of a site plan application for the proposed warehouse addition to be located at 1353 Coker Street in Ottawa (Greely), Ontario. Please refer to Figure 1 - Key Plan attached for the site location.

The purpose of this work has been to determine the suitability of the water supply aquifer underlying the subject site to service the proposed development in support of a site plan application.

The subject site is an approximately 0.27 hectare (ha) parcel. The ground surface across the site is relatively flat, with a general downslope direction to the south. The general overburden groundwater flow direction is assumed to be south towards the Osgoode Gardens Cedar Acres municipal drain.

The subject site is bordered to the north, east and west by developed commercial properties and to the south by Coker Street followed by additional developed commercial properties. The subject site and all of the neighboring land parcels are zoned RG3 (Rural General Industrial Zone subzone 3).

A Hydrogeological and Terrain Analysis Pre-consultation was completed with a City of Ottawa Hydrogeologist on November 11, 2021, where it was determined that as the

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application is for Site Plan application, that nitrate reduction technologies would be allowed in support of the Sewage System Impact Assessment (Terrain Analysis).

DESCRIPTION OF SUBJECT SITE

The subject site is an approximately 0.27 ha lot and is currently occupied by a one storey commercial building. The Site Plan application is for a proposed warehouse addition. Please refer to D.B. Grey Engineering Inc. Drawing A-002 - New Site Plan + Notes attached for proposed site layout. The subject site is currently serviced by an onsite sewage system and a private drilled well, and a new sewage system is proposed to be located in the same location as the old sewage system.

The existing well, hereafter referred to as Test Well 1 (TW1) is the well which will be servicing both the proposed building addition and the existing development.

Paterson has completed a replacement sewage system design for the proposed development. A septic flow value of 1,900 L/day was used for the existing building and a septic flow value of 1,700 L/day was calculated for the proposed building addition. This results in a total daily water demand calculation of 3,600 L/day.

The suitability of the aquifer to supply the subject site was assessed using the methodology provided in City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).

FIELDWORK PROGRAM

As a means to demonstrate the adequacy of the aquifer underlying the subject lands, with respect to water quality and quantity, the onsite water supply well tested. A WWR was not available for the well, however Paterson field staff measured the well while the existing submersible pump was removed for the constant rate pumping test. The well, referred to as TW1, was measured to have a 150 mm diameter steel casing extending to a depth of 16.1 m below the ground surface (bgs). The total depth of the well was measured to be 22.1 m bgs. Based upon available geological mapping, the drift thickness at TW1 varies from 5 to 10 m bgs. Refer to Paterson Drawing PH4407-3 for the location of TW1.

As a means to evaluate the water supply aquifer intercepted by the well, the well was subjected to a 8 hour constant rate pumping test. The pumping test was conducted on February 3, 2022 under the full-time supervision of Paterson personnel.

A submersible pump was provided by Air Rock for the 8 hour pumping test. A licensed water well technician was retained to complete the necessary plumbing related activities. The existing pump was removed from the well by a licensed well technician, and a rented submersible pump was used for the pumping test. A discharge hose assembly with a gate valve was connected to the rented pump. The discharge line was placed at a sufficient

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distance to ensure that the discharge water was being directed away from the well. Upon completion of the test, the pump was removed, the existing pump was re-installed, and the well was disinfected by Air Rock.

The pumping test was carried out at a pumping rate of approximately 19 L/min for a duration of 8 hours, after which the pumping rate was reduced to 9 L/min for a half hour in an attempt to lower turbidity levels. During the pumping test, the pumping rate was periodically measured using the timed volume correlation method. The pump rate was maintained within 5% of the selected pump rate. The static water level was recorded manually and an electronic datalogger (VanEssen TD-Diver) was installed in the test well prior to the start of the pumping test. A 19 L/min pumping rate was chosen. This rate provides approximately three times the maximum total daily design volume for the septic system during the 8 hour pumping test. Combined with the unknown nature of the available well water quantity prior to the pumping test, the rate was determined to be representative of a flow rate which would be in excess of what the development would require.

The data logger recorded water levels at 30 second intervals. In addition, manual water level readings were taken at periodic intervals during the test.

Recovery data was collected from the well following the completion of the pumping. The well was noted to have achieved 100 % recovery in less than one minute after the completion of the pumping test.

Groundwater samples were collected at 4 hours and 8.5 hours after the start of pumping. Prior to collection of the groundwater samples, the free chlorine residual was verified to be non-detectable. The water samples were submitted for comprehensive testing of bacteriological, chemical and physical water quality parameters consistent with the standard 'Subdivision Supply' suite of parameters, and Volatile Organic Compounds (VOC's).

All samples were collected unfiltered and unchlorinated and were placed directly into clean bottles supplied by the analytical laboratory. Samples were placed immediately into a cooler with ice and were transported directly to the Eurofins Environmental Testing Canada Inc. (Eurofins) laboratory in Ottawa. All samples were received by the laboratory within 24 hours of collection.

A series of field tests of the pumped water were carried out at the well head during the 8.5 hour pumping test. The parameters tested at the well head included: pH, total dissolved solids, conductivity, turbidity, apparent colour and temperature.

The generator which powered the rented submersible pump for the pumping test temporarily failed at approximately the 6 hour mark of the pumping test, however Paterson was able to quickly restart the generator to finish the 8 hour test. Due to the spike in the

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data from the generator failure, the data collected from the first 6 hours of the pumping test was used in support of this study, however the data from all 8.5 hours is included in this report.

The turbidity level recorded during the field program was higher than the maximum of 5 NTU (field measurement of approximately 6.5 NTU) during the 8 hour constant rate pumping test. After 8 hours of constant rate pumping at 19 L/min, the pumping rate was lowered to 9 L/min for a half hour. The recorded field turbidity after lowering the rate was on the order of 3.4 NTU.

AQUIFER ANALYSIS

Water Quantity

Pumping test data was analyzed using AQTESOLV Pro Version 4 aquifer analysis software package by HydroSOLVE Inc. Drawdown data was measured using an electronic water level tape and an electronic datalogger unit.

TABLE 1:SUMMARY OF WATER SUPPLY AQUIFER CHARACTERISTICS OF TW1							
AQUIFER PARAMETER	RESULT OF ANALYSIS						
Transmissivity (m²/day)	367						
Pumping Rate (L/min)	19						
Pre-test Static Water Level (m)	3.2						
Maximum Drawdown (m)	1.9						
Available Drawdown (m)	18.95						
% Drawdown During Pumping Test	5						
Specific Capacity (L/min/m drawdown)	10						

The drawdown data was analyzed using the Theis and Cooper Jacob methods of analysis. Aquifer transmissivity is estimated to be approximately 367 m²/day.

The pumping test results show that TW1 has a high yield to support the water demands for the proposed development. Overall, maximum drawdown at a constant pumping rate for a period of 8 hrs was approximately 1.9 m (5 % of the available drawdown). 95% recovery was achieved in less than one minute after the end of pumping. The water level was observed to be rising during the constant rate pumping test, with the measured drawdown at the end of the pumping test recorded at 1.0 m.

The total volume of water pumped during the 8 hour pumping event was approximately 9,120 L. This is approximately three times the maximum total daily design volume of water

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required to support the development as part of the site plan application (approximately 3,600 L/day).

Observations from dataloggers placed in TW1 prior to the pumping test indicated that TW1 is hydraulically connected to other water supply wells. The aquifer drawdown recorded outside of the pumping test period is generally on the order of 0.5 m. The recovery from the observed drawdown was very quick, typically on the order of one minute. Groundwater quantity issues are not expected due to the minimal volume of daily water takings required by the proposed development.

The suitability of the aquifer to supply the proposed development was assessed using the methodology provided in City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).

Based on the information summarized in Table 1, it is readily apparent that the water supply well has intercepted an adequately strong water supply aquifer which has sufficient quantity to service the proposed development under typical usage.

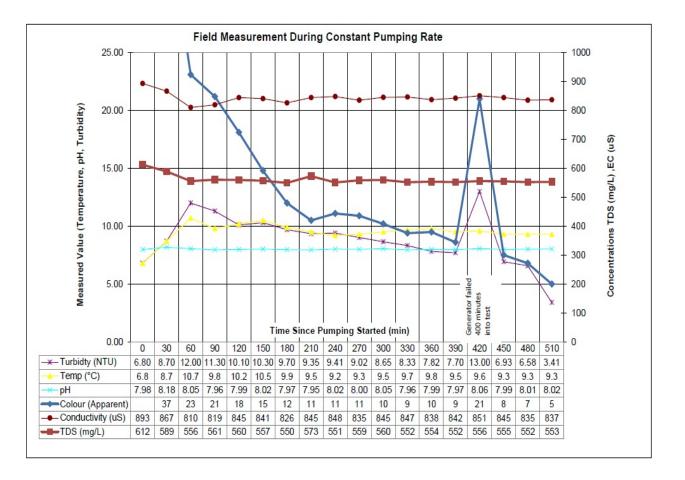
Given the analyses presented and summarized above, it is our opinion that there is an adequate supply of water to service the proposed development in addition to the neighboring lots whose wells may intercept a similar aquifer. Available water well records (WWR's) of the neighbouring properties on the MECP Well Record mapping website indicated that the wells have generally been screened in either a limestone or underlying sandstone bedrock unit. However, two (2) wells are recorded to be screened in gravel with casing extending to a minium of 11.6 m. Surrounding WWR's are attached to this report.

Water Quality

TW1 is currently supplying the existing building on site, as such the client is familiar with the water quality which TW1 provides.

Field Data

Turbidity, electrical conductivity, total dissolved solids (TDS), pH, apparent colour and temperature were measured at the wellhead during the pumping test. The measurements and time intervals for each of these parameters are summarized on the graphical representation below. In addition, a Hach Pocket Colorimeter II chlorine reader was used to measure the free chlorine residual level. No chlorine residual was detected in the discharge water prior to the collection of the water samples.



Laboratory Data

The laboratory water quality obtained from the pumping test of TW1 is provided in Table 2a 2b, and 2c below and the laboratory analyses reports can be found attached.

TABLE 2a: GROUNDWATER MICROBIOLOGY & GENERAL GEOCHEMISTRY									
		OD	ws	TW1					
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03				
MICROBIOLOGICAL									
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0				
Total Coliforms	ct/100mL	0	MAC	0	0				
GENERAL CHEMICAL - HE	ALTH RELATE	D							
Fluoride (F)	mg/L	1.5	MAC	0.16	0.15				
Ammonia (N-NH ₃)	mg/L	-	-	< 0.010	< 0.010				
Nitrite (N-NO ₂)	mg/L	1	MAC	<0.10	<0.10				
Nitrate (N-NO ₃)	mg/L	10	MAC	<0.10	< 0.10				
Total Kjeldahl Nitrogen	mg/L	-	-	0.210	0.402				
Turbidity (Field)	NTU	1.0 (5.0)	MAC/AO	9.41	3.41				
Turbidity (Laboratory)	NTU	1.0 (5.0)	MAC/AO	4.9	2.2				
GENERAL CHEMICAL - AE	STHETIC REL	ATED							
Alkalinity (as CaCO3)	mg/L	30-500	OG	246	244				
Chloride (Cl)	mg/L	250	AO	97	96				
Colour	TCU	5	AO	67	28				
Colour (Field - Apparent)	TCU	5	AO	11	5				
Conductivity	uS/cm	-	-	848	840				
Dissolved Organic Carbon	mg/L	5	AO	2.4	2.5				
Hardness (as CaCO3)	mg/L	100	OG	384	380				
Ion Balance	unitless	-	-	0.98	0.98				
pH	unitless	6.5-8.5	AO	8.02	8.07				
Phenols	mg/L	-	-	< 0.001	< 0.001				
Sulphate (SO ₄)	mg/L	500	AO	70	70				
Sulphide (S2)	mg/L	0.05	AO		< 0.02				
Tannin & Lignin	mg/L	-	-	0.9	0.9				
Total Dissolved Solids	mg/L	500	AO	551	546				

1. ODWS identifies the following types of parameters:

MAC = Maximum Allowable Concentration

AO = Aesthetic Objective

OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

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ODWS									
	10000000	00		TW1					
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03				
Volatiles	•								
Aluminum (Al)	mg/L	0.1	OG	< 0.01	< 0.01				
Antimony (Sb)	mg/L	0.006	IMAC	< 0.0005	< 0.0005				
Arsenic (As)	mg/L	0.01	IMAC	< 0.001	< 0.001				
Barium (Ba)	mg/L	1.0	MAC	0.40	0.40				
Beryllium (Be)	mg/L	-		< 0.0005	< 0.0005				
Boron (B)	mg/L	5.0	IMAC	0.02	0.02				
Cadmium (Cd)	mg/L	0.005	MAC	< 0.0001	< 0.0001				
Calcium (Ca)	mg/L	-	-	101	101				
Chromium (Cr)	mg/L	0.05	MAC	< 0.001	< 0.001				
Cobalt (Co)	mg/L	-	-	< 0.0002	< 0.0002				
Copper (Cu)	mg/L	1.0	AO	0.008	0.003				
Iron (Fe)	mg/L	0.3	AO	0.58	0.46				
Lead (Pb)	mg/L	0.01	MAC	< 0.001	< 0.001				
Magnesium (Mg)	mg/L	-	-	32	31				
Manganese (Mn)	mg/L	0.05	AO	0.03	0.03				
Mercury (Hg)	mg/L	0.001	MAC	< 0.0001	< 0.0001				
Molybdenum (Mo)	mg/L	-	12	< 0.005	< 0.005				
Nickle (Ni)	mg/L	-	-	< 0.005	< 0.005				
Potassium (K)	mg/L	-	-	2	2				
Selenium (Se)	mg/L	0.05	MAC	< 0.001	< 0.001				
Silver (Ag)	mg/L	-	-	< 0.0001	< 0.0001				
Sodium (Na)	mg/L	200	AO	28	28				
Strontium (Sr)	mg/L	-	-	0.306	0.293				
Thallium (TI)	mg/L	-	<u> </u>	< 0.0001	< 0.0001				
Uranium (U)	mg/L	0.02	MAC	< 0.001	< 0.001				
Vanadium (V)	mg/L	-	-	< 0.001	< 0.001				
Zinc (Zn)	mg/L	5.0	AO	< 0.01	< 0.01				

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IMAC = Interim Maximum Acceptable Concentration

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TABLE 2c: GROUNDWATER GEO	CHEMISTRY -	VOLATILES				
	5	OD	TW1			
PARAMETER	UNITS	10000	Constant.	and the second sec		
		LIMIT	TYPE	GW1 (4 hr)	GW2 (8.5 hr)	
VOC- Commenter				2022-02-03	2022-02-03	
VOCs Surrogates	~				100	
1,2-dichloroethane-d4	%	-	-	110	120	
4-bromofluorobenzene	%	-	-	82	73	
Toluene-d8	%		-	119	103	
Volatiles						
1,1,1,2-tetrachloroethane	µg/L	-	-	< 0.5	<0.5	
1,1,1-trichloroethane	µg/L	-	-	< 0.4	<0.4	
1,1,2,2-tetrachloroethane	µg/L	-	-	< 0.5	<0.5	
1,1,2-trichloroethane	µg/L	-	-	<0.4	<0.4	
1,1-dichloroethane	µg/L	-	-	< 0.4	<0.4	
1,1-dichloroethylene	µg/L	14.0	MAC	< 0.5	<0.5	
1,2-dichlorobenzene	µg/L	200.0	MAC	<0.4	<0.4	
1,2-dichloroethane	µg/L	5.0	IMAC	< 0.2	<0.2	
1,2-dichloropropane	µg/L	-	-	< 0.5	<0.5	
1,3,5-trimethylbenzene	µg/L	-	-	< 0.3	<0.3	
1,3-dichlorobenzene	µg/L	-	-	< 0.4	< 0.4	
1,3-Dichloropropylene (cis+trans)	µg/L	-	-	< 0.3	<0.3	
1,4-dichlorobenzene	µg/L	5.0	MAC	< 0.4	<0.4	
Acetone	µg/L	-	-	<30	<30	
Benzene	µg/L	1.0	MAC	< 0.5	< 0.5	
Bromodichloromethane	µg/L	-	-	< 0.3	< 0.3	
Bromoform	µg/L	-	-	< 0.4	< 0.4	
Bromomethane	µg/L	-	-	< 0.5	<0.5	
c-1,2-Dichloroethylene	µg/L	-	-	< 0.4	< 0.4	
c-1,3-Dichloropropylene	µg/L	1.4-11	-	< 0.2	< 0.2	
Carbon Tetrachloride	µg/L	2.0	MAC	< 0.2	<0.2	
Chloroethane	µg/L	-	-	< 0.2	< 0.2	
Chloroform	µg/L	-	-	< 0.5	< 0.5	
Dibromochloromethane	µg/L	-	-	< 0.3	< 0.3	
Dichlorodifluoromethane	µg/L	-	-	< 0.5	< 0.5	
Dichloromethane	µg/L	50	MAC	<4.0	<4.0	
Ethylbenzene	µg/L	140	MAC	< 0.5	< 0.5	
Ethylene Dibromide	µg/L	-	-	< 0.2	<0.2	
Hexane	µg/L	-	-	<5	<5	
m/p-xylene	µg/L	-		< 0.4	< 0.4	
Methyl Ethyl Ketone (MEK)	µg/L	-	-	<10	<10	
Methyl Isobutyl Ketone (MIBK)	µg/L	-	-	<10	<10	
Methyl Tert Butyl Ether (MTBE)	µg/L	15	AO	<2	<2	
Monochlorobenzene	µg/L	80	MAC	< 0.5	<0.5	
o-xylene	µg/L	-	-	< 0.4	< 0.4	
Styrene	µg/L	-	-	< 0.5	<0.5	
t-1,2-Dichloroethylene	µg/L	-	-	< 0.4	<0.4	
t-1,3-Dichloropropylene	µg/L	-	-	< 0.2	<0.2	
Tetrachloroethylene	µg/L	10	MAC	< 0.3	<0.3	
Toluene	µg/L	60	MAC	<0.4	<0.4	
Trichloroethylene	µg/L	5	MAC	<0.3	<0.3	
Trichlorofluoromethane	μg/L	-	-	<0.5	<0.5	
Vinyl Chloride	μg/L	1	MAC	<0.2	<0.2	
Xylene; total	µg/L	90	MAC	<0.5	<0.5	

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2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

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The bacteriological test results from TW1 at 1353 Coker Street (Certificate of Analysis - Report No. 1971215) indicated that the test samples at the 4 and 8.5 hour interval were non-detect (0 ct/100 mL) for E.Coli and Total Coliforms.

Volatile Organic Compounds (VOC's) were not detected in the groundwater samples taken from TW1.

The water quality of the subject water supply well meets all the Ontario Drinking Water Standards maximum acceptable concentrations (MAC). Furthermore, the water meets all of the aesthetic objectives (AO) and operational guidelines (OG) with the exception of the following:

- $\Box \quad \text{Hardness (As CaCO}_3)$
- Total Dissolved Solids (TDS)
- Colour
- 🖵 Iron

Exceedances of the above parameters are not uncommon of the water supply in the subject aquifer. As TW1 currently supplies potable water to the existing building, the client is familiar with the quality of the groundwater. Each of these groundwater parameters are discussed in detail below.

Hardness as CaCO₃

Hardness, expressed as calcium carbonate, an operational guideline, does not appear in the ODWS. Rather, it appears in the Technical Support Documents for Ontario Drinking Water Standards, Objectives and Guidelines as a parameter with an operational guideline of 100 mg/L. At the measured concentration of 384, and 380 mg/L in the test wells, the water is considered to be hard, however it is below the reasonable treatable limit of 500 mg/L specified in Table 3 of the MOECC guidance document Procedure D-5-5 (1996). The hardness concentration can be treated using conventional water softener technologies.

TDS

Total dissolved solids (TDS) refers to the concentration of inorganic substances dissolved in water. The main constituents are typically chloride, sulphates, calcium, magnesium and bicarbonates. There are various levels of the constituents at a low level and it is not anticipated that they will cause an issue with taste. A point of use reverse osmosis unit may be installed if the owner desires for drinking purposes. As such, no taste problems will occur when the system is used. Mat Main Page 11 File: PH4407-LET.01-REV.01.

The Langelier Saturation Index (Langelier, 1936) is used to predict the calcium carbonate stability of water. It indicates whether the water will precipitate, dissolve, or be in equilibrium with calcium carbonate. The Langelier calculation provided an LSI of 0.8. Based on the evaluation of the result, the water is super saturated and tends to precipitate a scale layer of calcium carbonate (scale forming but non-corrosive). Based on the range of stability in the positive direction, there are no mitigative measures needed. See Langelier Saturation Index Calculation attached for calculation details.

Colour

Colour may occur in drinking water for several reasons. It may be due to organic substances from the decay of vegetation; or the presence of metals such as iron, manganese and copper, which are abundant in nature. The provincial aesthetic objective for colour in drinking water is 5 True Colour Units (TCU). The federal (Health Canada) guideline aesthetic objective limit for colour is 15 TCU (Guidelines for Canadian Drinking Water Quality, Health Canada June 2019). Procedure D-5-5 gives a maximum concentration considered reasonably treatable for colour as 7 TCU. As colour is a strictly aesthetic parameter, it can be reduced from the water supply, if desired, through the use of a manganese greensand treatment.

A Hach DR900 colorimeter was used to measure field colour (apparent colour) in the groundwater during the constant rate pumping test. Apparent colour in the groundwater was measured to be 5 TCU at the end of the pumping test. The elevated colour levels detected in the lab samples is attributed to the precipitation of iron out of the groundwater.

Iron

Concentrations of iron above 0.3 mg/L can contribute to staining of fixtures and a metallic taste at higher concentrations. Precipitation of iron can promote the growth of iron bacteria in pipes. The concentration of iron in the groundwater in the test well is considered to be reasonably treatable in accordance with Procedure D-5-5. It is recommended that an iron filter be used to reduce the levels of iron and reduce the potential for excessive precipitate occurring in the water supply system, if desired.

Turbidity

Turbidity, which is generally an aesthetic parameter, was detected in the laboratory test samples at value of 4.9 NTU at the 4 hour portion of the test, and 2.2 NTU at the endpoint of the pumping test of the test well. Continued pumping showed a decrease towards the end of the test, and was especially noted when the pumping rate was reduced to 9 L/min. It is expected further development of the well would further reduce turbidity values.

The ODWS maximum acceptable concentration for turbidity in drinking water entering the distribution system is 1 NTU. The Aesthetic Objective for turbidity in drinking water reaching the consumer is 5 NTU.

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Sodium

Sodium (Na), an aesthetic parameter, was detected in the laboratory test samples at a concentration of 28 mg/L in both tests, which does not exceed the ODWS aesthetic objective of 200 mg/L. Although sodium is not toxic and no maximum acceptable concentration has been set, concentrations above 20 mg/L require that the Medical Officer of Health be notified of the water quality results, so that this information may be passed on to local physicians for use in treatment of those requiring a sodium-restricted diet.

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TERRAIN ANALYSIS

Surficial Geology

A series of test pits were put down on the subject parcel to delineate the subsurface soil conditions as part of the geotechnical investigation (Paterson Report PG6052-1 dated January 16, 2022). On December 17, 2021 four (4) test pits were excavated on the property for the design of the proposed warehouse addition and its associated infrastructure. The location of the test pits on the property are delineated on the Test Hole Location Plan, Drawing No. PG6052-1, attached.

The test hole locations were recorded and the subsurface conditions, including the soil morphology and depth to the groundwater table (if encountered), were carefully observed and recorded. The soils encountered were classified texturally in the field, and later reviewed in the laboratory.

The test pits were advanced to a maximum depth of 3.2 m below ground surface (bgs). Bedrock was not encountered during the test pit program. Based upon available geological mapping, the drift thickness across the site varies from 5 to 10 m bgs

According to the test pit logs, the subsurface profile consisted of a fill of varying compositions extending to depths of 0.6 to 0.8 m bgs generally underlain by a brown silty sand. The underlying brown silty sand layer was not seen in TP2-21. Underlaying the brown silty sand was a stiff to very stiff grey silty clay. Groundwater was observed at depths between 0.4 to 1.0 m bgs in the test pits.

Reference should be made to the test pit logs appended to this report for the details of the soil profiles encountered at each test hole location. The client should be aware that any information pertaining to soils are furnished as a matter of general information only and borehole descriptions are not be interpreted as descriptive of conditions at locations other than those described by the boreholes themselves.

It should be noted that groundwater levels can fluctuate both seasonally and in conjunction with precipitation events. Therefore, groundwater levels could vary at the time of construction.

Hydrogeological Sensitivity of the Site

The subject site is currently occupied by a one storey commercial building which fronts onto Coker Street. The subject site is bordered to the north, east and west by developed commercial properties and to the south by Coker Street followed by additional developed commercial properties. All surrounding properties are on private services. The adjacent properties are serviced by private wells and septic systems. Mat Main Page 14 File: PH4407-LET.01-REV.01.

The ground surface across the site is relatively flat, with a general downslope direction to the south. The general overburden groundwater flow direction is assumed to be south towards the Osgoode Gardens Cedar Acres municipal drain. The regional groundwater flow is considered to be in an southeasterly direction, towards the North Castor River.

The overburden generally consists of a fill overlying a brown silty sand which is underlain by a grey silty clay. Bedrock was not encountered during the field program. According to available geological mapping, the drift thickness within the site varies from 5 to 10 m bgs. According to the geotechnical field investigation, the overburden thickness was observed to be greater than 2 m.

As the proposed site does not have bedrock within 2.0 m of the ground surface, the site is not considered hydrogeologically sensitive. Separation distances are not required to be increased between the septic components and the onsite well.

To corroborate our position in this matter, the water quality of the bedrock aquifer targeted by the onsite drilled potable supply well shows no indication of surface water or surface impacts from sewage system effluent.

Conceptual Lot Development Plan

It is proposed to add a warehouse to the existing site which is currently occupied by a one storey commercial building. The location of the existing and proposed structures can be found on the attached PH4407 - 3 - W ater Well location Plan, attached. It illustrates that the proposed design layout is adequate to accommodate the associated private services and meet all the regulated separation criteria. Please note that the proposed design layout is not meant to restrict the location of the proposed buildings or private services and is designed to demonstrate that the minimum separation distances can be achieved.

Proposed Sewage System

Paterson has completed a replacement sewage system design for the proposed development. A septic flow value of 1,900 L/day was used for the existing building and a septic flow value of 1,700 L/day was calculated for the proposed building addition. This results in a total daily design sewage flow (TDDSF) of 3,600 L/day. Refer to the approved OSSO Septic Permit attached for more specific details. The septic flow values were calculated in accordance with the OBC and are as follows:

Existing Building:

- **G** Factory (no showers) with 6 employees = $6 \times 76 \text{ L/day} = 450 \text{ L/day OR}$
- □ Number of water closets = 2 x 950 L/day = 1,900 L/day

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Proposed Building Addition:

- □ Warehouse with 5 bay door = 5 x 150 l/day = 750 L/day; AND
- □ Number of water closets = 1 x 950 L/day = 950 L/day

Combined Existing Building and Proposed Building Addition:

Existing Building (1,900 L/day) + Proposed Building Addition (1,700 L/day)
 = 3,600 L/day.

PREDICTIVE NITRATE IMPACT ASSESSMENT

In order to demonstrate that private services would adequately support the proposed commercial development, a predictive nitrate impact assessment for the subject site was completed. The values shown in the Predictive Nitrate Impact Assessment attached to this report are summarized below.

Site area	0.27 Ha
Impervious area %	45 %
Daily sewage flow	3.6 m ³
Concentration of nitrate in effluent (Value based on typical effluent concentration)	40 mg/L
Concentration of nitrate in effluent with treatment (Value based on tertiary treatment system with 90% nitrate redu	4 mg/L uction)
Surplus Water (The surplus water value was estimated based on Environme values with a soil type comprised of fine sandy loam (Urban sources.)	
 Combined infiltration factor based on: Topography infiltration factor Soil texture infiltration factor Cover infiltration factor 	0.70 0.30 0.30 0.10

The topography infiltration factor of 0.30 is based upon a flat land with average slope of < 0.6 m / km for the proposed development.

The soil texture infiltration factor was based upon an average of "open sandy loam" with a value of 0.4 and "medium combinations of clay and loam" with a value of 0.2 which is a

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reasonable generalization based upon the site investigations and available geological mapping.

The "vegetative cover infiltration factor" was calculated as 0.1 based upon the minimum value for cultivated land.

The calculation for a conventional sewage system results in a predicted nitrate concentration of 30.8 mg/L nitrate concentration for the subject site, using a value of 40 mg/L nitrate concentration within the effluent. This value was based upon using a septic flow value of 3,600 L/day for the daily sewage flow. It is expected that the actual usage should be lower.

An existing approved tertiary treatment system capable of reducing the nitrate loading in the effluent is the Waterloo Biofilter brand. The system has an available nitrate reduction of 25 to 35% based upon the standard single pass system and 50 to 65% based upon a double pass re-circulation system. With the addition of the WaterNOx system, 90 to 95% total nitrogen removal can be achieved. This would reduce the nitrate concentration in the effluent from 40 mg/L down to as low as 4 mg/L. Provided the value of 30.8 mg/L of nitrates for the fully sized system, a 90% reduction would provide a value of 3.1 mg/L. A WaterNOx system has been included in the new septic design for the property, as shown in the attached Paterson drawing, PH4407-1-REV.02.

Based on the results of the predicted nitrate impact assessment, it is our opinion that the proposed property can adequately support the proposed commercial development without having an adverse impact on the underlying bedrock aquifer

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CONCLUSIONS

Based on the information contained within the body of this report, the following conclusions can be drawn:

- 1. The water supply aquifer intercepted by the existing well is considered to be adequate to support the water quantity demands for the proposed warehouse addition.
- 2. As TW1 currently provides potable water to the existing building, the client is familiar with the quality of the groundwater.
- 3. The preferred water supply aquifer intercepted by the test wells contains a water supply that is potable, and contains only elevated concentrations of Hardness, TDS, Colour, and Iron. All of the parameters can be treated with current readily available water conditioning equipment.
- 4. The sodium concentrations were measured to be above the 20 mg/L reporting limit and, as such, the Medical Officer of Health for the City of Ottawa should be informed to assist area physicians in the treatment of local residents on sodium reduced diets.
- 5. A residential grade water softener is recommended to facilitate the reduction of the hardness concentration. If a water softener is used for the proposed development, the owner should be made aware that additional sodium will be added to the water to reduce hardness. If desired, a point-of-use reverse osmosis system can be used to provide a drinking tap source.
- 6. If desired, the client can use a iron filter to treat the potential iron values.
- 7. If desired, the client can use a carbon filter to treat the potential colour values.
- 8. Any private water supply wells (drilled) and the onsite sewage system components must have a minium of 15 m horizontal separation as per the Ontario Building Code (2012).
- 9. The predicted nitrate concentrations at the property boundary is calculated to be below the required 10 mg/L threshold when a standard denitrification system such as the Waterloo Biofilter WaterNOx system is used.
- 10. The subject site is sufficient in size to accommodate a new sewage system and meet all the regulatory separation criteria

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- 11. A Sewage System Permit and Building Permit need to be issued prior to the commencement of construction on the proposed warehouse addition or the proposed septic system.
- 12. The results of the Hydrogeological Assessment and Terrain Analysis have provided satisfactory evidence that the subject site can support the proposed warehouse addition with respect to water quality, quantity and sewage system placement.

We trust that this satisfies your present requirements. Should you have any questions regarding this submission, please do not hesitate to contact the undersigned.

Yours truly,

PATERSON GROUP INC.

Erik Ardley, BSc Geology.

Michael S. Killam, P.Eng.



Attachments:

- Figure 1 Key Plan
- MECP Water Well Records
- Eurofins Certificate of Analysis
- Paterson Test Pit Logs
- AQTESOLV Pumping Test Analysis Reports
- Nitrate Impact Assessment Calculations
- D.B. Grey Engineering Inc. Drawing A-002 New Site Plan + Notes
- Paterson Drawing PG6052-1 Test Hole Location Plan
- Paterson Drawing PH4407-1(Rev.02) Sewage System Layout Plan
- Paterson Drawing PH4356-3 Water Well Location Plan
- Approved OSSO Septic Permit

Paterson Group Inc.

Head Office and Laboratory 154 Colonnade Road South Ottawa - Ontario - K2E 7J5 Tel: (613) 226-7381 Northern Office and Laboratory 63 Gibson Street North Bay - Ontario - P1B 8Z4 Tel: (705) 472-5331 **St. Lawrence Office** 993 Princess Street Kingston - Ontario - K7L 1H3 Tel: (613) 542-7381



FIGURE 1

KEY PLAN

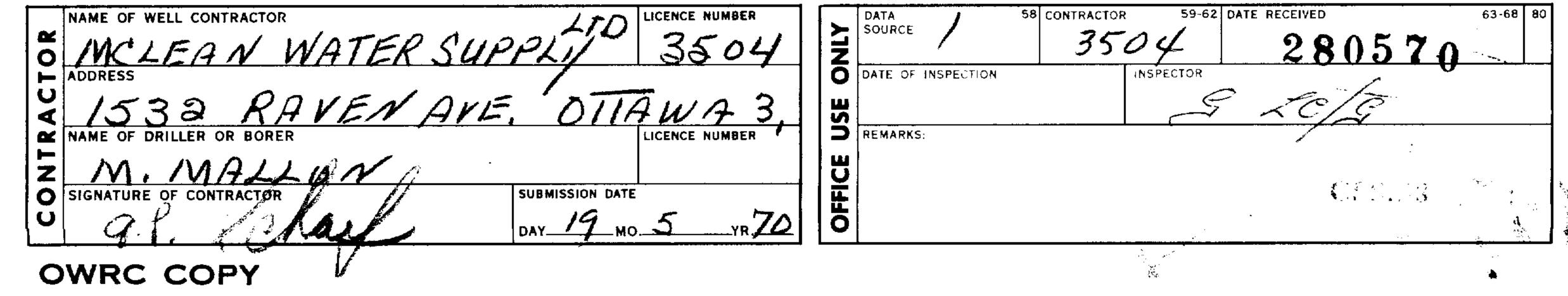
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WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL D TH:CKNESS INCHES FRU	DEPTH - FEET		ERIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
ω^{i}	FRESH 3 □ SULPHUR SALTY 4 □ MINERALS 6 □ GAS	10-11 10#STEEL 20 GALVANIZED 30 CONCRETE		59					FEET
2	FRESH 3	17-16 4 OPEN HOLE	e18 8 C) 59	21 DEPTH	PLUGGI	NG & SEA	0. TXRE (CEM	ENT GROUT.
2	□ FRESH 3 □ SULPHUR 24 □ SALTY 6 □ GAS	K 10 STEEL 20 GALVANIZED 30 CONCRETE 40 SOPEN HOLE 50 PLASTIC	5	3 62	FROM				ACKER. ETC)
1	☐ FRESH 3 ☐ SULPHUR 21	24-25 2 1 🗆 STEEL 2 🗆 GALVANIZED		27-	30	18-21 22-25	Cerical Bertonii "(Insser	E Skur	erer .
	FRESH 3	G 3 CONCRETE 4 OPEN HOLE 5 PLASTIC				26-25 30-33	Tresser	e querte	d)
71 PUNPING TEST N	11-2		-16 🥢 17-11			LOCATION	OF WEL	.L	
STATIC LEVEL	WATER LEVEL 25		PUMPING RECOVERY			LOW SHOW DISTAN		FROM ROAD	AND
O TEST	40 22-24 IS MINUTES		40"	ACTE	zown De		r		N
SIF FLOWING, GIVE RATE	EET FEET FE 30-41 PUMP INTAKE	SET AT WATER AT END		<u> </u>		-/ 1			4
	GPM PUMP TYPE RECOMMENDE PUMP		40 44-0		4-				
50-53	OW 🕅 DEEP SETTING	FEET RATE C	40 _{GPM}						
FINAL	34 1 U WATER SUPPLY 2 OBSERVATION WE	S ABANDONED. INSUL ABANDONED POOR		11001 #3	3 V	4			
STATUS OF WELL	S TEST HOLE	7 UNFINISHED 9 O DEWATERING		"sum	·	150			
WATER	55-56 1 DOMESTIC 2 STOCK	S COMMERCIAL							
USE	3 🔲 IRRIGATION 4 💭 INDUSTRIAL 🗌 OTHER	7 D PUBLIC SUPPLY • X COOLING OR AIR COND • NOT		N					-D-
		BORING		PARKWA	1Ko. 2	*	2 Droff	HEOR AS	
METHOD OF CONSTRUCT	3 C ROTARY (REVERS					N			
	S X AIR PERCUSSION			DRILLERS REM		J N	<u> </u>		
MAME OF WEL	NTON DRILLIN	GIRC HULLICE	CONTRACTOR'S	DATA SOURCE	58	4875			•3-•1 •0 88
ADDRESS	NTON DR ILLIN X 429, GREE	27, ONT.		SE	NSPECTION	INSPECT)R		
	THE VASTA	VOU T	L TECHNICIAN'S	D REMARKS		i			
SIGNATUR	OFTECHNICHT CONTECTOR	L SUBMISSION DATE	04 8	OFFICE				~ ~	s.Er
MINIST	RY OF THE ENVIRO	NMENT COPY		••••••••••••••••••••••••••••••••••••••			F	ORM NO. 0506	(11/86) FORM 9

County or District Osgoode 4 Osgoode Address Date completed 23 day 10 P_O. Box 124 Greely Ontario KdP IN4 Celevation RC Basin Code iii 21 Image: State of the state	$ \frac{1}{1} + 1$
County or District Township/Borough/City/Town/village Oold of other with the description Osegoode 4 Address Date completed 23 day 10 u P.O. Box 124 Greely, Ontario 12 KdP IN4 Osegoode RC Bit of the description RC Bit of the description RC Bit of the description Evaluation Bit of the description From Bit of the description <th< th=""><th></th></th<>	
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) General colour Most common material Other materials General description D Brown Soil Loose Fill C Brown Clay Packed 4 Gray Clay Sticky 34 Gray Linestone Layered 51 Gray Linestone Modium 67	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
General colour Most common material Other materials General description I Brown Soil Loose Fill - Brown Clay Packed - Gray Clay Sticky - Gray Limestone - - Gray Limestone - -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Brown Clay Packed A Gray Clay Sticky	34 34 51 1 62
Brown Clay Sticky Sticky Gray Clay Sticky Sticky Gray Sand, Gravel, & Boulders Sticky Sticky Gray Limestone Layered Sticky	34 34 51 1 62
Gray Clay Sticky Gray Sand, Gravel, & Boulders 34 Gray Limestone Layered Gray Limestone 65	4 <u>51</u> 1 <u>62</u>
Gray Sand, Gravel, & Boulders Layered 51 Gray Limestone 67	1 62
Gray Limestone 51 Modium 67	
Modium 6	2 76
32 10 14 15 21 32 43 54 56 54 54 56 56 56 56 56 56 56 56 56 56 56 56 56	75 80
41 WATER RECORD 51 CASING & OPEN HOLE RECORD Sizes of opening Sizes of opening Diameter Weter found Inside Wall Depth - feet II Sizes of opening Inclusion	feet
at - feet Kind of water diam Material mickness From To U Material and type Depth at t	top of screen 30
2 Galvanized	feet
15-18 1 Fresh 4 Minerals 5 □ Plastic 61 PLUGGING & SEALING RECC	
20-23 1 Fresh 3 Sulphur 24 2 Galvanized 20-23 - Fresh 4 Minerals 3 Concrete	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
2 Saity 6 Gas 2 Galvanized 2 Galvanized 2 Galvanized	
30-33 I Fresh 3 Sulphur 34 80 3 Concrete 2 Salty 6 Gas 5 Plastic 2 20-33 80 80	
71 Pumping test method ¹⁰ Pumping rate ¹¹⁻¹⁴ Duration of pymping ₁₇₋₁₈ ↓ LOCATION OF WELL LOCATION OF WELL	5
Water level 25 Water level 25 Water levels during 1 © Pumping 2 © Recovery 1 7 F In diagram below show distances of work monitorial and a stances of work monitori an	ot line:
end of purpting and the interview of the	
L 519 Meet 20 feet 716 Meet 61 met 518 Mileet 518 feet	
If flowing give rate 38-41 Pump intake set at Water at end of test 42 GPM feet □ Clear □	
Recommended pump type Recommended 43-45 Recommended 46-49 pump rate	
Deep 35 feet 5 GPM 9 Greely Strick	L Y
Image: Shallow grade Deep pump setting pump rate 35 feet 5 GPM FINAL STATUS OF WELL 54 54 1 Water supply 5 Abandoned, insufficient supply 9 Unfinished 2 Observation well 6 Abandoned, poor quality 10 Replacement well 3 Test hole 7 Abandoned (Other) 7 Abandoned 40 4 Recharge well 8 Dewatering 7 Abandoned 40	Parkway Dr
1 Water supply 5 Abandoned, institutient supply 6 2 Observation well 6 Abandoned, op or quality 10 3 Test hole 7 Abandoned (Other) 4 Becharge well 8 Dewatering	70
	3
WATER USE 55-56 1 Domestic 5 Commercial 9 Not used 2 Stock 6 Municipal 10 Other Other	10
2 - Stock Invitation 3 - Invitation 7 - Public supply 4 - Industrial 8 - Cooling & air conditioning	(#
METHOD OF CONSTRUCTION 57	-
Air percussion 9 Driving	3261
Name of Well Contractor's Licence No. Well Contractor's Licence No. Source State of inspection Inspector	2 1097
Capital Water:Supply Ltd. 1558	
P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician SLicence No.	
S. Miller/ Signature of Technician/Contractor Management day24 mo 10 yr 97	14

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🗑 Ont	Ario Ministry of the Environment		The	e Ontario Water Resources WATER WELL RECO	
Print only in space Mark correct box	ces provided. with a checkmark, where applica	ble . 11	1531816	$\underbrace{\prod_{15}^{\text{Municipality}}}_{10} \underbrace{\prod_{15}^{\text{Con.}}}_{15} \underbrace{\prod_{15}^{\text$	DA
County or District	waCarle to	Township/Borough/City/	•	Con block tract survey, etc. Lot	25-27
		Address Address		Date completed 07 02 (48-53 01
21		Northing	RC Elevation RC	day month	year iv
	LOG O	PF OVERBURDEN AND BEDR	COCK MATERIALS (see instruction	<u>ions)</u>	
General colour	Most common material	Other materials		I description Depth - feet	it To
	Sand	boulders		0 3	5
grey	linestore	-		· · · · · · · · · · · · · · · · · · ·	12
grey	Sandstone			142 24	10
			1		
31	l	<u> </u>]
Water found	Kind of water 51	CÁSING & OPEN HOLE F Wall Materiat thickness	BECORD Sizes of (Slot No Depth - feet U From To	opening 31-33 Diameter 34-38 Length .) inches	39-40 feet
at - feet $ \bigcirc \qquad 9^{10-13} \qquad 1 \qquad 1 \\ 2 \qquad \square $	Fresh ³ Sulphur ¹⁴ Salt Gas	1 E Steel 12		and type Depth at top of scree	en 30
15-18 1	Fresh 3 Gulphur 19 6 4	2 □ Galvanized 3 □ Concrete 4 □ Open hole 5 □ Plastic	0 44 1	teel	nt
20-23 1		1 🗆 Steel 19		PLUGGING & SEALING RECORD PAnnular space Abandonment t- feet	
05.00	$\begin{bmatrix} \text{Sairy} & 6 & \square & \text{Gas} \\ \hline & & & \end{bmatrix} \begin{bmatrix} \mathbf{A} & \mathbf{A} \\ \hline & & & \end{bmatrix} \begin{bmatrix} \mathbf{A} & \mathbf{A} \\ \mathbf{A} \end{bmatrix}$	3 Concrete 4 27 Open hole 5 Plastic	0 9 2 From 7 ¹³ 0	To Material and type (Cement grout, bentonite,	, etc.)
20-33	1 1 Minerals 1 Salty 6 Gas 2 Fresh 3 Sulphur 34 60 60 60 60	1 Steel 26 2 Galvanized 3 Concrete	47 7/12 18-21	2225 Bartoute	
	Salty 6 Gas	4 🚰 Open hole 5 🗋 Plastic	1 C C 4 O 26-29	30-33 80	
71 Pumping test m	Bailer Pumping rate 5 GP	17.40			
	na or pumping j	1 D Pumping 2 Recovery	In diagram below show Indicate north by arrow	w distances of well from road and lot line.	
	220 160 101	-31 45 minutes 32-34 60 minutes 35-37 Sfeet		old #	\mathbb{N}
If flowing give ra	ate ³⁸⁻⁴¹ Pump intake set at	Water at end of test 42 eet Clear PCloudy	Thundert	211d Prescott	"
Recommended p	ump type Recommended 43 pump setting 7 2	⁴⁵ Recommended <u>46.49</u> pump rate <u>5</u> GPM	IP IU IU	kd.	
50-53				lam	
FINAL STATUS ¹ Water sup ² Observation	ply ⁵ 🗌 Abandoned, insufficien		1 1		
 ³ Test hole 4 Recharge 	7 Abandoned (Other)			o7km	
WATER USE	55-56 5 🔲 Commercial	9 🗋 Not use			
2° Stock 3 Irrigation 4 Industrial	 6 D Municipal 7 Public supply 8 Cooling & air conditioni 	10 🗌 Other		ł	
METHOD OF C	CONSTRUCTION 57	۳ _{7 مهر -}			
 ¹ Cable tool ² Rotary (co ³ Rotary (rev 	nventional) 6 🗖 Boring	 ⁹ Driving ¹⁰ Digging ¹¹ Other 		00040	
4 🗌 Rotary (air	r) ⁸ □ Jetting			22948	
Name of Well Contra	ch. Dr. U.P. J	Well Contractor's Licence No.	Data 58 Contractor source	19 Date received APR 18 2001	3-68 80
LU#2	Jasner On	J	Date of inspection	Inspector	
Name of Well Techn	non Rurell	Well Technician's Licence No.		CSS.ES1	
Signature of Technic	cian Sontractor	Submission date 28 02 01 day mo yr	A Hemarks	033.231	
	TRY OF THE ENVIRONM			0506 (07/00) Front	Form 9

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	ces provided. k with a checkmark, where applic	able.	15318	B17 Municipa	
County or District OHA Owner's surname Sup S	wa Carlete	Township/Borough/City Address Easting Northing	1. Ont	vation RC Basin Code	k tract survey, etc. Lot Completed day OZ O ii iii ii ii
1 2		12 17 18 OF OVERBURDEN AND BEDF	24 25 26 ROCK MATERIALS (see instructions)	
General colour	Most common material	Other materials		General description	Depth - feet From To
	Sand	boulder:	5		044
grey	linestone				44 80
				• • • • • • • • • • • • • • • • • • •	
		ji j			
31					
				<u>54</u>	65 75
41 WATE Water found at - feet	ER RECORD 51 Kind of water diam	CASING & OPEN HOLE I Wall Material thickness	Depth - feet	(Slot No.)	1-33 Diameter 34-38 Length 3 inches
	Fresh ³ Sulphur ¹⁴ inche Minerals	s inches	From To 13-16	Material and type	Depth at top of screen 41-44
15-18 1	Fresh 3 Ulphur 19	2 Gatenized 3 Contrete 4 Open tiple	0 53		feet
	17-		20-23	Annular space	& SEALING RECORD
2	Salty 6 Gas	y 3 □ Concrete 4 2 Open hole 5 □ Plastic	0 51	From 10	rial and type (Cement grout, bentonite, e
2	Fresh 4 I Minerals 24-2 Salty 6 Gas /	¹⁵ 1 🗆 Steel ²⁶ 2 🗋 Galvanized		2 ¹³ 53 (2 18-21 22-25	mint growt
	Fresh ³ Sulphur ³⁴ A Minerals Satty ⁶ Gas	3 Concrete 4 Open hole 5 Plastic	51 80	26-29 30-33 80	
71 Pumping test m		1-14 Duration of pumping 17-18 PM Hours Mins		LOCATION OF	 WELL
Static level W	Vater level 25 Nd of pumping Water levels during	1 Pumping 2 Becovery	In diagram Indicate r	n below show distances on the by arrow.	of well from road and lot line.
	70 ²²⁻²⁴ 15 minutes 12 12 12 13 15 minutes 26-28 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2 1 2 1 2 1 2 1 2 1 2 1			1
SNI feet		feet feet feet feet 42			
Recommended po	ump type Recommended fump setting	feet Clear Cloudy 3-45 Recommended 46-49 pump rate	1 _1	under birg	Į
50-53		feet GPM		1	
FINAL STATUS	ply ⁵ Abandoned, insufficie			V	. 01d
 ² Observation ³ Test hole ⁴ Recharge 	7 Abandoned (Other)	ity 10 🖸 Replacement well		(Presol
WATER USE	55-56			6 ()(n Old m Presol Rd.
1 Domestic 2 Stock 3 Irrigation 4 Industrial	5 Commercial 6 Municipal 7 Public supply 8 Cooling & air coordition	9 🗌 Not use 10 🗋 Other			
	8 Cooling & air condition				
1 Cable tool 2 Rotary (co	⁵ ZOAir percussion nventional) ⁶ Doring	⁹ Driving ¹⁰ Digging			
³		11 🖸 Other	Sunset	Lakes Tes	,+ * 2. 22948 2
Name of Well Contra	actor Deli Dri Wirg (D)	Well Contractor's Licence No.	Data source Date of inspection	58 Contractor	59-62 Date received 63-66 APR 18 2001
RPH			Date of inspection	Inspector	1744 1 0 2001
1 1 1 1		Well Technician's Licence No.		I	
Name of Well Techn	DO DIMAN	12172			CSS.ES1

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County or District $\wedge + \alpha$	we Carleton	Township/Borough/		ige		Con block	tract survey	/, etc. Lo	ot 25-27
		Address	1/01	UP GR	eely	ONF	Date completed	OG day r	12 20 nonth year
21	¥1.11	Northing			vation RC	Basin Code			
1 2		PF OVERBURDEN AND B			see instructi	ons)		, , , , , , , , , , , , , , , , , , ,	47
General colour	Most common material	Other materia				description		Dept From	h - feet To
Brown	Sand	with som	ne S	tones				0	51
Grey	Clay	with som	re sta	11-5	<u></u>			5'	39'
Grey	Gravel	Course	· · · · · · · · · · · · · · · · · · ·					39'	60'
						<u> </u>	<u></u>		
31		<u> </u>	 {				 .	<u> </u>	1
41 WATER Water found	R RECORD 51 Kind of water Inside		De	D oth - feet	Slot Na	25 5/0	1-33 Diameter	³⁴⁻³⁸ Len inches	gth , ³⁹⁻⁴⁰ 4 feet
at - feet	Kind of water diam inches Fresh 3 3 Sulphur 14			To 13- 16	Material	and type		Depth at top	
55 2 🗆	Salty 6 Gas	2 Galvanized 3 Concrete 4 - Open hole	0	20	st2	in \$ 453	stell	55	feet
	Salty 6 Gas	5 🖾 Plastic		20-28	<u>61</u> ,	PLUGGING Annular space		Abandon	
	Fresh ³ Sulphur ²⁴ 4 Minerals 6 Gas	2 Galvanized 3 Concrete 4 Open hole	8 +2	57	Depth set a	at - feet	erial and type (C		
	Fresh ³ Sulphur ²⁹ 4 Minerals ²⁴⁻²	5 🗆 Plastic		27-30	70 13	O ⁴⁻¹⁷ 8	begs	high	lar
30-33 1 📋	Sality 6 Gas Fresh 3 Sulphur 34 60 Salty 6 Gas	2 Galvanized 3 Concrete 4 2 Open hole 5 Plastic	57	60'	18-21 26-29	22-25 30-33 80			
71 Pumping test me		PM Land Contraction of pumping Land Contraction of pumping Contracti	7-18 INS			CATI ON OF		54	
	ater level 25 d of pumping Water levels during			In diagra Indicate	am below sho north by arrow	w distances (w.	of well from	roadanpi	37
	16 tot 13 tot 13	s 45 minutes 32-34 60 minute	S 35-37		N۳	. 1		1	
SNI 1 d feet	te 38-41 Pump intake set at	Water at end of test	feet 42		Λ.		Shir	,	1
Recommended pu		feet K Clear □ Cloue ³⁻⁴⁵ Recommended	dy 46-49			2			21
Shallow	Deep pump setting 30	feet pump rate 10	ЭРМ			3			3
FINAL STATUS			-11			1×1			
Water supp Water supp Deservation Toat halo	n well 6 🔲 Abandoned, poor qua			2 2		à			
 ³ Test hole 4 Recharge w 	 7 Abandoned (Other) vell ⁸ Dewatering 			3	Gree	y 10	49		
WATER USE	55-56 5 Commercial	s □ Not use] .	÷ [,			
2 Stock 3 Inrigation 4 Industrial	6 Hunicipal 7 Public supply 8 Cooling & air conditio	10 🗌 Other		201					
1									
¹ □ Cable tool ² □ Rotary (con ³ □ Rotary (rev ⁴ ▲ Rotary (air)	erse) 7 Diamond	9 Driving 10 Digging 11 Other						227	486
Name of Well Contra		Well Contractor's Licence		ource *	58 Contractor	006	59-62 Date rec		63-68 BC
Address 2200 S-	Rivens RD. Me	IralLo DAT.		ate of inspection	n 4	Inspector	JUI	. 17	2001
Name of Well Techni	ician D 1	Well Technician's Licens	xe No. } ♪	lemarks		<u></u> _			
Signatule of Technic	cian C Renwick ian/contractor	Submission date						CSS.	ES1
Wanne	Kennt	day mo yr		:			·	0500 (07)	00) Front Form

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Ministry of the Environment

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The Ontario Water Resources Act WATER WELL RECORD

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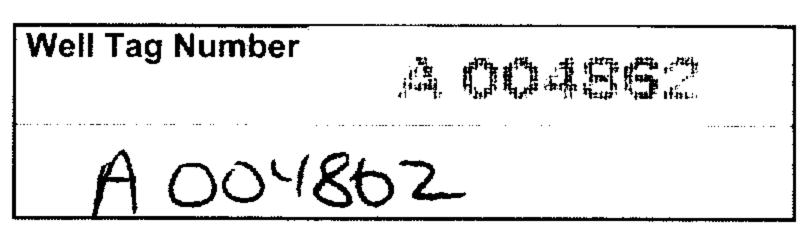
County or District				Borough/City/) sgoode	Fown/Village	•		Con block tract s	survey, etc. Lot	25-27 5 48-53
			Address 1545 F	liver Ro	ad Ma	ontick	,Ontario	EXAM 184 Compl	^{eted} 27day 11 m	
21	U T			Northing			ation RC	Basin Code		
1 2	10	OG OF OV	ERBURDEN	AND BEDR		ERIALS (s	³⁰ ee instructio	31 D NS)	Death	
General colour	Most common material		Othe	er materials			General	description	From	i - feet To
Brown	Sandy Soil								0	4
Gray	Sand & Gra	vel					Wet		4	12
Gray	Sandy Clay								12	30
Gray	Sand, Grav	el	Bou	lders	· · · · · · · · · · · · · · · · · · ·		Wet	<u></u> ,	30	58
Gray	Limestone						·		58	160
Gray & W	hite SAndstone				····=re- ·				160	223
								·		
	<u> </u>	<u></u>				<u> </u>	.		 	
32	╶┖╴╸╸╸╸									
41 WAT	ER RECORD	51 C	ASING & OF	VEN HOLE I	43 RECORD Depth	- feet	Sizes of c Sizes of c (Slot No.)		meter ³⁴⁻³⁸ Leng	
Water found at - feet	Kind of water	diam inches	Material	thickness inches	From	То	Material a	and type	inches Depth at top	feet of screen 30
216	☐ Satty 6 ☐ Gas	6 11/4 1 0 2 [3 [Steel ¹² Galvanized Concrete	.188	+ 1.5	65 ¹⁶	SC			41-44 feet
	Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 [5 [Open hole Plastic			20-23	61	PLUGGING & SEA		
	☐ Fresh ³ ☐ Sulphur ²⁴ ☐ Salty 5 ☐ Gas	2 [Galvanized Concrete				Depth set at	Material and ty	/pe (Cement grout, be	
25-28 1 [□ Fresh ³ □ Sulphur ²⁹	5 [Open hole Plastic		65	223	10-13	14-17	- Oeroenit (1)	
	□ Sality 6 □ Gas	2 [3]	Steel Galvanized Concrete			27-50	18-21	22-25	Bentonite (3)
	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas		Open hole Plastic				26-29	30-33 80		
71 Pumping test r		11-14 C GPM	Duration of pumpi	ng 17-18 Mins			LOC	CATION OF WELL	<u></u>	
Statia laval	Bailer Water level end of pumping			Recovery		In diagrar Indicate n	n below show orth by arrow	v distances of well f v.	rom road and lot	line.
		minutes 4	5 minutes 32-34	60 minutes 35-37						1
SN 34°67eet	28.41		150 feet Vater at end of tes	75 feet						
Recommended	GPM	feet	Clear Recommended	Cloudy 46-49		C-ree	や	¥ 1020	~	
	Deep		pump rate	5 GPM		Greed Sr	5.	₩6939	131	13
50-53						R	, 2 + 1		6' 1	
¹ Water su ² Observat			ly ⁹ □ Unfinish ¹⁰ □ Replace				1		ł	Prescot Huy
³ Test hole 4 Recharge)ther)					(ł	ŝ
	55-56 5 🗌 Commercial		9 🗌 Not use				. 1	·	1	°,
 Domestic Domestic Stock Imigation 	7 🗋 Public supply		10 🗌 Other				\setminus	•	11	0
4 🗌 Industrial		conaitioning								0
1 🗀 Cable too		1	⁹ Driving				1130	^c Keon		
² □ Rotary (c ³ □ Rotary (r ⁴ ♀ Rotary (s	everse) 7 🖸 Diamond		¹⁰ □ Digging ¹¹ □ Other						250	522
			Woll Contract	r'e Linance Ma	Data		58 Contractor	59-62 Da	ate received	63-68 80
Name of Well Cont Capital W	tractor Tatter Supply Ltd		Well Contracto	or's Licence No.		ce	<u>15</u>	58 0		N2 🕺
Address		rille (Ontario	K25 116		of inspection		Inspector		
Name of Well Tech	nnician	*****1	Well Technicia	in's Licence No.	Bank NINISTRY USE	arks	L			00
S. Mille Signature of Jechr	er nician/Contractor		TOO97 Submission da	ate	SINI			C	203.E	کند ک
1 Auro	mal		day 29mo	<u>11 yr 02</u>	≥		<u></u>		0506 (07/0) Front Form

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🕲 Ont	ario Ministry of the Environment	-		·			11	ne Ontari WAT		/ELL F		
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County or District			Township/B	orough/City/T	own/Village)	Pl		ck tract	SUTVEY, etc.		25-27
Atte	No Canletor		Address	500	te				Date	12		†
			61	eeley Northing	,0	RC Elev	ation R	C Basin Cod	compl	leted 13 day	111	2 Ö Z
21	5									<u></u>		
	LOG		RBURDEN A		DCK MAT	ERIALS (s					Depth	- feet
General colour	Most common material		Other	materials		0.(ral description		Fro		
	Sand		j av.	el7	100	uld	Q/ S				\mathcal{O}	62
giey	Linestone		- - 0		1						2 8	227
grei	Sanayund	10 m							<u> </u>	20	_	227
un un	- grey sance		¥		<u> </u>							
		+		<u> </u>								
				: :								
31											<u> </u>	
	ER RECORD 51							of opening	31-33 Dia	65 meter 34-38	Lengt	h 39-40
Water found at - feet	Kind of water diam	• •	Material	Wall thickness inches	Depth -	feet To	N (Slot I			inches		feet
· 10-13 1 [220 2 [Fresh ³ Sulphur ¹⁴ 4-17 Minerals 6 Gas		alvanized	Inches		13-16	Hater Mater	ial and type		Depth	at top o	f screen 30 41-44
15-18 1	Fresh 3 Sulphur 19		Concrete Open hole Plastic	88	0	70	61	PLUGGIN		LING REC		feet
20-23 1	174		Salvanized	•	Ì	20-23		Annular space	же		ndonme	
05.00	☐ Saity 6 ☐ Gas				0	68	From		aterial and ty	/pe (Cement gr	out, bei	ntonite, etc.)
2 [□ Salty 6 □ Gas 243	2 0 0	Steel ²⁶ Balvanized Concrete			27-30 ク つ つ	18-21	22-25	nn	10/11	<u>v</u>	
1 1'L	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 🖬 🤇 5 🗆 F	Open hole		68	222	26-29	30-33 80				
71 Pumping test m		1-14 Dura PM	ation of pumping	17-18 Mins			L(F WELL			
Static level	Bailer Vater level and of pumping Xater levels during	1 🗆 Purr		Recovery		In diagran Indicate n	n below sh orth by arr	iow distances	of well fi	rom road ar	nd lot	line.
500 feet	22-24 15 minutes 26-28 50 50 50 50	s 45 m										11
feet If flowing give r	rate 38-41 Pump intake set at	feet Wate	feet	feet 42			、·	5	,			え
Recommended p	GPM	feet	Clear 🔺	Cloudy 46-49			à					
□ Shailow	Pump setting /60	feet put	^{mp rate} 9	GPM			Ň	[] []	7			
50-53	IS OF WELL 54						1-kl	à l	/			
1 Water sup 2 Observation 3 To at hole	ion well 6 🗌 Abandoned, poor qua	nt supply Ility	 ⁹ Unfinished ¹⁰ Replacem 	l ent well			il	Sc F)'Ar	'CY		
 ³ Test hole 4 Recharge 			·				5/2	"uqsuun		-		
WATER USE			9 🗌 Not use				ιĤ					
2 Stock 3 Irrigation 4 Industrial			10 🔲 Other					1				
METHOD OF												
 Cable tool Rotary (coll 	onventional) ⁵ 4 Air percussion ⁶ D Boring		⁹ Driving ¹⁰ Digging									
 ³ Rotary (re ⁴ Rotary (ai) 	ir) ⁷ Diamond ⁸ Jetting		11 🗌 Other							24	88	30
Name of Well Contr	ractor		Veli Contractor's	Licence No.	> Data		58 Contracto			te received		63-68 80
Address Q	xh-Diuglo	Ud	1119			e of inspection	1	119 Inspector		DEC 23	3 20	
L KK	#1 Kichm	ona	1, Dr	1	USE							
Name of Well Tech	non fuller	1 '	TR 1	12	ALSINIW	11KS			~			
Signature of Techni	rician/Contractor	Į.	Submission date	52	WIN				U	SS.[
	TRY OF THE ENVIRON			,	<u> </u>					0506	(07/00)	Front Form 9



Instructions for Completing Form



 Well Record

 Regulation 903 Ontario Water Resources Act

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Differentiated, specify

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information



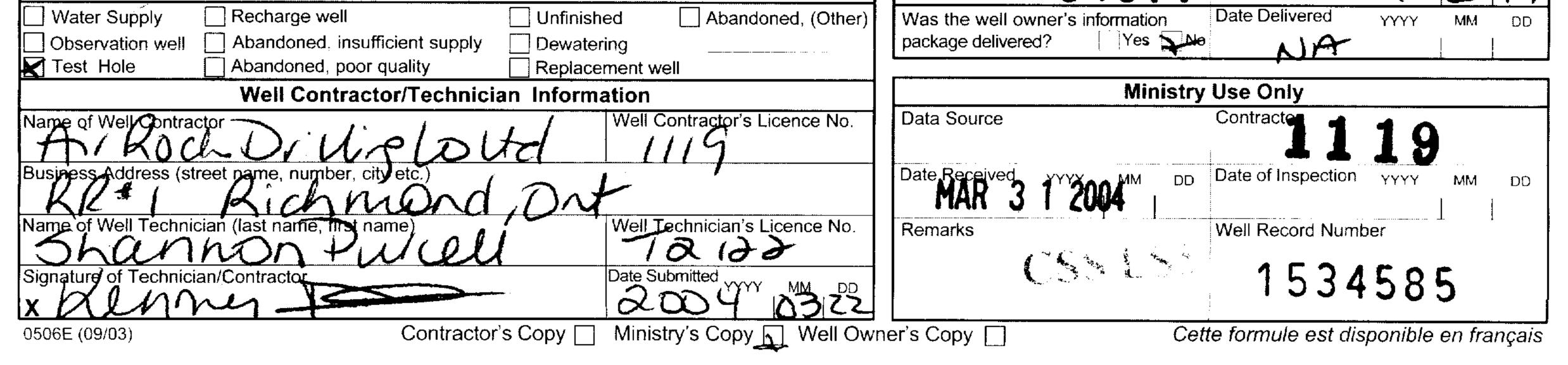
Address of Well Location (County/District/Municipality)	Township	Lot 6 Concession
RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing	Unit Make/Model Mode of	Operation: Undifferentiated Averaged

OF 5 Reading	8 3	18	U55211	5011633	Magella	
Log of Overbu	urden ar	nd Bedro	ock Materials (se	e instructions)	1	

General Colour	Most common material	Other Materials	General Description	Depth Metres From To
• · · · · · · · · · · · · · · · ·	Clay			0 10.06

10.06 15. 16.01

		· · ···			• • • • • • • • • • • • • • • • • • • •		··· · · · · · · · · · · · · · · · · ·
Hole Diameter	Ca	onstruction Reco	ord		Tes	st of Well Yield	See Attacke
Depth Metres Diameter	Inside	Wall	Depth	Metres	Pumping test method		Recovery
From To Centimetre		thickness	•		C. D.Dump		Time Water Level
0 41.76 15.24	centimetres	centimetres	From	То	Pump intake set at -	min Metres	min Metres
		Casing			(metres)	Static 2.66	9.85
	Steel Fibregla	ass			Pumping rate -SU	15.66	1 8.18
	- 15.88 Plastic Concret	te ,478	\wedge	18 9	(litres/min)+ 30		
Water Record	Galvanized	. 7/0	U	18.9	Duration of pumping	2 8.20	2 7.40
Water found at Metres Kind of Water	Steel Fibregla	ASS			hrs + mir		
[Final water level end	3	3
Gas Salty A Mineral	s Galvanized	:			of pumping 8 metres		
Other: Not unoq	· Steel Fibregla	ass			Recommended pump type.	4 12.78	4 6.32
m Fresh Sulphur					Shallow Deep Recommended pump	1 1 1 3 1	
Gas Salty Mineral Other:	Galvanized				deptil 4 metres	6 16.34	85.52
	•	Screen			Recommended pump	8 18,21 10 19,98	8 4.96
m Fresh Sulphur Gas Salty Mineral	s Outsido	······			rate, 36	1622.82	10 4.60
Other:	diam Steel Fibregla	:			(litres/min) If flowing give rate -	20 24.14	20 3.67
After test of well yield, water was	Plastic Concret	te			(litres/min)	25 19.42	25 3,87
Clear and sediment free	Galvanized			i	If pumping discontin-	30 15.98	30 3,47
Other, specify to to q	Ν	o Casing or Scre	en	······································	ued, give reason.	40 11.66	40 3, 19
		j				50 10.32	50 3.10
Chlorinated Yes No-	Copen hole		18.3	41.76		60 994	60 3.04
Plugging and S	ealing Record	ular space 🗍 Ab	andonment		Location	•	
Dopth opt of Matron	ype (bentonite slurry, neat cement slu		e Placed	In diagram belov	v show distances of well fr		and building
From To			motres)	Indicate north by	Larrow.	. 6	A land building.
18.3 0 Cem	ent growt su	V14 250	gall	λs (estweer		
	1	<i>(</i>	/		est welt Partina	.201	N
				-	Tanyou	100	
			<u></u>			<u> </u>	1
				/	akm	12 km	
					\mathbf{V}		
	Method of Construction						Ind 1
Cable Tool ⁵ Rotary			Digging		ì		KIU I
Rotary (conventional) Air pe Rotary (reverse) Boring			Other			·	Plesat
	Water Use						RA.
Domestic Indust			Other				
Stock		····					
Irrigation Munic	Westand	& air conditioning		Audit No. 🔫	NAN77 Dat	e Well Completed	
	Final Status of Well				U47//	2 00 X	



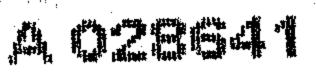
The second secon	Ainistry of Wine Environment	Vell Tay A 03;	1794	Regulation 903 Ontar	Well Record
Instructions for Completin	g Form	<u>AU3</u>	379%		page of
				Please retain for future refer nd explanations are available o	
 Questions regarding com 	pleting this application	n can be directed to		ement Coordinator at 416-23	
 All metre measurements Please print clearly in blue 		o 1/10 th of a metre. [······································	Ministry Use Only	
Well Owner's Information	and Location of We	II Information	MUN	CON	LOT
			5 7000 L		
RR#/Street Nymber/Name	il luil a	-	ity/Town/Aillage	Site/Compartment	/Block/Tract etc.
GPS Reading NAD Zong	Easting	Northing U	njt Make/Model / Mod	le of Operation: J Undifferentia	ed W Averaged
Log of Overburden and Be			Mageilan		
General Colour Most common r		ther Materials	Gener	ral Description	Depth Metres
brown topsoil				Soft	From To
quen Sand	D layers	of day		SDAY	1,02 10.36
grey Send - A	rand 0	0		Partied	10.36 14,93
green gran	el		······································	Partied	14,93 16,45 16,45 30,48
agen linchest	ne			layered	16,45 30,48
0				R	·
			,		· · · · · · · · · · · · · · · · · · ·
	r :			7	
Hole Diameter Depth Metres Diameter	Inside	Construction Recor	Depth Metres	Test of We Pumping test method Drav	v Down Recovery
From To Centimetres	diam Material		From To	Juff. P. Sub Time W	/ater Level Time Water Level Metres min Metres
0 17.37 21.23		Casing		Pump intake set at - Static (metres)	4.61 5.49
7,37 30.48 15.55	Steel Fit			Pumping rate - 1 (litres/min) 2 2	1
Water Record	15-55 Plastic Co Galvanized	O_{-48}	+0.60 17.37	Duration of pumping 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Water found at Metres Kind of Water	Steel Fit	-		Final water level end 3	5,2(3
30 m Fresh Sulphur Gas Salty Minerals	Plastic Co	oncrete		or pumping metres	
Other:		breglass		_ Reconfinended pump 4 type. Shallow [2] Deep	4
Gas Salty Minerals	Plastic Co	oncrete		Recommended pump 5 depth. 2φ metres	5121 5 469
m Fresh Sulphur		Screen		Recommended pump 10	5.36 10 4.61
Gas Salty Minerals	Outside Steel Fit	-		(litre\$/min) 15	536 15 Try3 20
After test of well yield, water was Clear and sediment free	Plastic Cc		-d	(litres/min) 25 If pumping discontin- 30	5 4 5 25 5 46 30
Other, specify		No Casing or Scree	en e	40 L	448 40
Chlorinated Yes 🗌 No	Open hole		17,37 30.48	50	48 50 1 60
Plugging and Sea	aling Record	Annular space 🔲 Aba	indonment	Location of Well	4
From To	e (bentonite slurry, neat ceme		Placed In diagram bel metres) Indicate north	ow show distances of well from road by arrow.	, iot line, and building.
0 1630 cm	I growt	106	mgs		
				·	
			n		·/-
	· · · · · · · · · · · · · · · · · · ·		$ 1^{\circ}$	South Village Forth Jon	12
Cable Tool 😥 Rotary (air) Dia		Digging	the Village	
Rotary (conventional) Air perc		ling 🔄 🗌	Dther	5000 # 6910	
	Water Use			Bo	
Domestic Industria		blic Supply	Other	است	
Irrigation Municipa	al Coc Final Status of Well	oling & air conditioning	Audit No. Z	28003 Date Well	Completed
Water Supply Recharge we	ell Unf		ed, (Other) Was the well package delive	owner's information Date Delive	
Test Hole Abandoned,	poor quality 🗌 Rep	watering		Ministry Use Only	
Name of Well Contractor	tractor/Technician Info	Well Contractor's Li	cence No. Data Source	Contractor	1414
Business Address (street parties, numb	er, city etc.)	1414	Date Received	MM DD Date of Ins	Dection YYYY MM DD
S+A Name of Well Technician (last hame, f	ng	Well Technician's Li	0017	Well Recor	
Clande B	ender	Well Technician's Li 33/0 Date Submitted			
Signature of Techninan/Contrator	un and	05	MM 27	and the second s	and diamonities and
0506E (09/03)	Contractor's Copy	y 📋 Ministry's Copy [] Well Owner's Copy 🗌	Cette formule	est disponible en français

					· · · · · · · · · · · · · · · · · · ·			
	Ministry of the Environment	Well 1 A 022	umbert	, ,	Well Record			
	the Environment	<u> </u>	^	Regulation 9	03 Ontario Water Resources Act			
Instructions for Completin	ng Form	H022	47a		page of			
				nent. Please retain for fut				
 Questions regarding con 	pleting this application	on can be directed to t		ons and explanations are a anagement Coordinator a	vailable on the back of this form. t 416-235-6203.			
 All metre measurement Please print clearly in blue 		to 1/10 th of a metre.		Ministry U	se Only			
Address of Well Location (County			25900	lo lo	4 4			
RR#/Street Number/Name		AGE DR	ty/Town/Village	Site/Com	partmen*/Pinck/Tract ets			
GPS Reading NAD Zor		Northing	Greek		ndifferentiated Averaged			
Log of Overburden and B	8 454713 adrock Materials (s		naque	an 🗆	ifferentiated, specify			
General Colour Most common	· · · · · · · · · · · · · · · · · · ·	Other Materials	1	General Description	Depth Metres			
50.00	1 Fill			•	From To			
CLOIA	50	ncl			1,2 /0.1			
Sand		rvel.			6.1 14.9			
ren lime	stone				14.9 24.4			
2 -1								
		4						
	· · ·		-	and	· · · · · · · · · · · · · · · · · · ·			
				· · · ·				
Hole Diameter		Construction Recor			st of Well. Yield			
Depth Metres Diameter	Inside	Wall		tres Pumping test metho				
From To Centimetres	diam Mater	ial thickness	· · · · · · · · · · · · · · · · · · ·	ROD	Time Water Level Time Water Level min Metres min Metres			
0 24.4 14.91		centimetres		• Pump intake seat	Static 124 -52			
	Steel	Casing Fibreglass		Pumping rate -	Level 4 1 5,03			
	Plastic	Comenta	0 17	. T (litres/min) 9 (Duration of pumping				
Water Record Water found at Metres / Kind of Water			0 11		in in in it is a second s			
	Steel Plastic	Fibreglass		Final water level end of pumping	37,07 34,69			
Gas Salty Minerals	Galvanize	d		Recommended pum				
Fresh Sulphur		Fibreglass		type.	ep P 5 7 24 5 4.62			
Gas Salty Minerals	Plastic Galvanize			depth	P 5 7 34 5 4.53			
m Fresh Sulphur		Screen		Recommended purr rate.				
Gas Salty Minerals	diam	Fibreglass Slot No.		(litres/min) If flowing give rate -	15 7.4 2 15 4 .50 20 7.44 20 4 .48			
After test of well yield, water was	Plastic Calvanize	· · · · · · · · · · · · · · · · · · ·		(litres/min)	25 141 25 4.46			
		No Casing or Scree	<u></u>	ued, give reason.	30 7.48 30 4.44 40 1 50 40 4 42			
Chlorinated Yes No	Open hole				50 50 50 50 50			
		·			60 7.53 60 4 40			
Plugging and S Depth set at - Metres Material and th	ealing Record	ment slum() etc Volume	Indonment Placed In diag	Location ram below show distances of we	n of Well I from road, lot line, and building			
From To Matchar and ty		(cubic	metres) Indicate	e north by arrow.	Hor Well Intern road, lot line, and building #6958 SOUTH VILLAGE DRIVE			
14.0 0 ber	t cemen	Lung .	190	E FORES	#6958			
				the	South			
	-				DOIVE			
Cable Tool Rotary	Method of Constructi		Digging	A UN				
Rotary (conventional)			Other	South 2190'				
Rotary (reverse) Boring Driving Water Use			1 10 21	Forcet \$ 90				
	rial 🗌 F		Other BL	n S				
Stock Comm	ipal 🗍 🗍	Not used Cooling & air conditioning	Audit 1		Date Well Completed			
Final Status of Well Water Supply Recharge well Unfinished Abandoned, (Other)				2 23513 2005 1018				
Observation well Abandoned, insufficient supply				ge delivered?	2005 1019			
Test Hole Abandoned, poor quality Replacement well Well Contractor/Technician Information					Jse Only			
Name of Well Contractor	·) / / . /	Well Contractor's Li	cence No.	Source	Contractor 1119			
Busines Address (street name-num	nber, city etc.)	td 1119	Date R	Received YTYY4 2005 DD	Date of Inspection YYYY MM DD			
Name of Well Technician (last name	chmon	Well Technician's Li			Well Record Number			
Purced 5	hanno	~ Tai>						
Signature of Technician/Contractor	\supset	Date Submitted	M 02		- ⁶			
0506E (09/03)	Contractor's C		Well Owner's Co	opy 🗌 Cett	e formule est disponible en français			



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Well Tag Number (F



Well Record

Regulation 903 Ontario Water Resources Act

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Instructions for Completing Form

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- Please print clearly in blue or black ink only. Ministry Use Only Well Owner's Information and MUN CON LOT prmation First Name Mailing Address (Street Number/Name, RR,LonConcession) Sevelop mint and NE Stille_ County/District/Municipality wnship/City/Town/Village Province Telephone Number (include area code) Postal Code Ontario Address of Well Location (County/District/Municipality) Township Concession Lot win for the second ttawa Conletor)SGOOdele RR#/Street Number/Name City/Town/Village Site/Compartment/Block/Tract etc. -12 OUTH Greet 0/6 **GPS Reading** NAD Unit Make/Model Easting Mode of Operation: Zone Northing Undifferentiated Averaged 8 454843 5012416 8|3 an Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) General Colour Most common material **Other Materials** Depth **General Description** Metres

grey limestone

111					
	From	To			
	0	12.8			
	12 8	29.6			

grey lin	restone	Sands	stone		nixe		29.	6.	54.0	
	۰.	· · · · · · · · · · · · · · · · · · ·								
Hole Diameter						7				
	ameter	Lons	struction Reco	ora	······	Test of Well Yield				
	timetres diam	Material	Wall thickness	Depth	Metres	Pumping test method	Draw Down	Re	Covery Water Leve	
0 54 G is	.07- centimetres	•	centimetres	From	То	Support	min Metres	min	Metres	
0 07.7 15			Casing				Static Level 11, 13			
		Steel Fibreglass	······································	· · · · · · · · · · · · · · · · · · ·	····	Pumping rate -	1 12.95	1	36.15	
		Plastic Concrete	UV	\sim		(litres/min) 30,28				
Water Record	15.88	Galvanized	18 v	\mathbf{O}	15.2	Duration of pumping	2 13,53	2	34.77	
at Metres / Kind Or W	I	Steel Fibreglass				Final water level and	3 14.82		32.11	
	Sulphur					of pumping 37.51 metres		. 3	33.61	
Other:						Recommended pump	4 15.68	4	32.47	
	Sulphur	Steel Fibreglass				type.				
Gas Galty M Other: Other:	/linerals	Plastic Concrete				Recommended pump depth.	5 16.53	5	3053	
Ka II	Sulphur		Screen			Recommended pump	10 20 15	10	27.20	
Gas Salty N	/inerals Outside	Steel Fibreglass	[rate. 30.28	15 22.80		24.10	
Other:	diam	Plastic Concrete	Slot No.		· · · · · ·	If flowing give rate -	20 25, 44	· · · · · · · · · · · · · · · · · · ·	21.90	
After test of well yield, water		Galvanized				(litres/min)	25 27.6	25	2014	
Clear and sectment ree			boing or Sore			If pumping discontin- ued, give reason.	30 29.3	-30	18.24	
Other, opecify	<u>}</u>		asing or Scre				40 32.7	5 40 - 50	16.58 14,98	
Chlorinated Yes		Open hole		14.6	54.9		60 37.51	60	14-11	
	and Sealing Recor	d 🔄 Annula	r space 🗌 Ab	andonment		Location o	of Well	• •	· · · · · · ·	
Depth set at - Metres From To	al and type (bentonite slu	rry, neat cement slurry		e Placed metres)		w show distances of well fro	om road, lot line, a	and bui	lding.	
14.6 11.6 C	ement.	Stury		62	Indicate north by	y arrow.			っし	
11.606	entonde	Sun	11	9n	South 1	· · · · ·			•	
			7		South Beach f	then h	935		· .	
					Bive	South Ville	ase Dr			
		····			160']					
	Mathed -f A				160	<u> </u>				
Cable Tool	Method of Co Rotary (air)	Diamond		Digging		150'		:		
	Air percussion	Jetting		Other						
	Boring	Driving		······································						
	Undustrial									
	Industrial Commercial	Public Supp Not used	יy []	Other						
	Municipal	Cooling & ai	ir conditioning		Audit No. 🚽	DODET Date	e Well Completed			
	Final Statu				· ∠	23357 ^{Date}	20	Б (<u>37 38</u>	
	harge well ndonod_insufficient/sun		L Abando	ned, (Other)	Was the well ov		e Delivered γ	YYY 2		



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	Address RR#/Stro	\mathbb{U}	ta.	wa	V/District/Mu	etor	$\frac{1}{202}$			/illage	Lot	4	Concession
	GPS Re	ading			Eastin	4807+	O Northing	2421		Model Mod	-	differentiated ferentiated, s	
	Log of General (burd	en and B	edrock Ma	aterials (see instruc	ctions)		0	·	lerentiated, s	-
		GOIOUI	5		material	00	Other Materia	ais 		Gener	al Description		Depth Metres
	gre	'er	$\widetilde{1}$	mla	tone	810	ver						11.6 30.
	gu	ey	5	and	Iston	e							30.5 54.4
										·			
	-		-									:	
		:		-									
	Depth	Hole D	lame etres	ter Diameter			Construc					st of Well	
	From	·	То	Centimetres	Inside diam centimetres	Mate	u	Wall lickness	Depth From	Metres	Pumping test method	Time Wate	r Level Time Water Lev
*	0	PH	,9	15.24	cenumetres		<u>_</u>	ntimetres sing		То	Pump intake set at - (metres) 51, 8	Static Level 10	otres min Metres
							Fibreglass				Pumping rate - (litres/min)26,5		83 1 22.81
	Water fou	Water		rd of Water	15.88	Plastic Galvanize		48	0	14.0	Duration of pumping		58 2 22.0
	Water four atMe B5		-resh	Sulphur		Steel	Fibreglass Concrete				Final water level end of pumping	1 1	12 3 2004
	Gas Other			Minerals		Galvanize					Recommended pump	3	166 4 19.38
No.		1 🗔	resh	Sulphur		Steel	Fibreglass Concrete				type. Shallow Dee Recommended pump	5 14	
	Other:		Fresh	Sulphur		Galvanize		creen			depth 51, 8 metres Recommended pump	10 16	
	Gas Other:	<u> </u>	Salty	Minerals	Outside diam	Steel		Slot No.			rate. (litres/min) If flowing give rate -	15 18.	44 15 11.28
				water was		Plastic Galvanize				-	(litres/min)	25 21	05 25 10.18
	Other,	specife		snay			No Casir	ng or Scr	een		If pumping discontin- ued, give reason.	40 23	2.01 30 10.15 3.5240 10.13
ŀ	Chlorinate	ed 📉	/es	No		Open hole			13.4	54.9			1.63 50 10, 11 5.4260 10.08
ľ	Depth set				ealing Reco		Annular spa		bandonment ne Placed		Location	of Well	
F	From 13.4			aterial and ty	pe (bentonite sl	-	ment slurry) etc.	(cubic	c metres)	In diagram below Indicate north by	v show distances of well f arrow.	rom road, lo	t line, and building.
ŀ	10.4	0		Der	ston	te SI	wry	.40		*			
	- H-F						l						· · · ·
							· · ·			South			
	Cable 1	Fool		Rotary	Method of C		on Iiamond		Dissing	Bivel.	11.	an an	
	Rotary	(conver				Ē	etting] Digging] Other		· HT50'		#6945
Ļ		<u>.</u>	-,		Wate	r Úse	riving				SA	wth	#6945 1. Uase D
	Domes				ercial	<u> </u>	ublic Supply ot used		Other		~		.
Ļ	Irrigatio			Municip	Final Stat	us of Well	ooling & air con			Audit No. Z	and the second se	te Well Com	DU DU
		ation w	ell 🔲		, insufficient su	pply 🔲 D	nfinished ewatering		oned, (Other)	Was the well ow package delivere		te Delivered	05 100
ļ	Test H				poor quality						Ministry Us		
- H:	lange of W				illing	ינסני	td Well Co	intractor's L	icence No.	Data Source		ntractor 1	19
	K	1+	1		hm	Dra	1, Oni	r'		Date Received	14 2005 DD Da	te of Inspecti	on yyyy MM DD
	40	\mathcal{M}^{C}	e l	(last name,	first name)	no		chnician's I	icence No.	Remarks		ell Record Nu	umber
ال 1	Signature		nician/0	Centractor	>		Data Suc		101	· · · · · · · · · · · · · · · · · · ·			
	506E (09/				Cont	ractor's Co	pv Minist	ry's Copy	Well Ow	ner's Copy 🔲	Cette f	ormule est	disponible en frança

🕅 Or		Ministry of the Environme	Well Tag	A 03	6132	ar below)	Regulati	on 903 Ontari	Well R	
Instructions	for Completin	ng Form		AOZ	6133	2			page _	of
 For use in All Section Question All metre Please p 	n the Province ons must be cor s regarding com measurement rint clearly in blue	of Ontario on npleted in full npleting this ap ts shall be rep te or black ink	to avoid delays oplication can b ported to 1/10 th only.	in processir e directed to • of a metre	ng. Further in the Water V	nstructions and	l explanations a nent Coordina Minist	ire available o	n the back of	this form.
Well Owner	's Information	and Locatio	n of Well Info	rmation						
RR#/Street Nur ++- 69 GPS Reading	34 Jou NAD Zoj 8 3	HhVilk HhVilk B. ASA-		rive ing 12309	City/Town/Vil Unit Make/Mo	odel Mode	of Operation:	Compartment/ AM - 12 Undifferentiated	36 <u>5</u>	11-14
Log of Over General Colour	burden and B Most common	·····	rials (see inst Other Ma			Genera	l Description		Depth From	Metres
		Sand	grave						0	12.19
	(sray 1	inests	ne					1d11	4 <u>7.10</u>
				·····						
			- 							
								·		
	Diameter etres Diameter		Cons	truction Reco	ord Depth	Metres	Pumping test r	Test of We		Recovery
· · · · · · · · · · · · · · · · · · ·	To Centimetres	Inside diam centimetres	Material	thickness	From	To	Sublu	Time	ater Level Time Metres min	e Water Level Metres
0 43	<u>, 15, 1</u>			Casing		· · · · · · · · · · · · · · · · · · ·	Pump inteke s (metres)	Static Level	$\frac{2}{13}$	1275
		1588 ⁴	Steel Fibreglass Plastic Concrete Galvanized	.48	0	14.63	(litres/min)		1.46 2	11 25
Water found at Meters	r Record Kind of Water 		Galvanized Steel Fibreglass	· · ·		17.	hrs +O	min		1102
🗋 Gas 🛛 🚺	Freed Sulphur Saity Minerals		Plastic Concrete Galvanized				of pumping Recommended	metzes		10.87
	Fresh Sulphur		Steel Fibreglass				type. Shallow Recommended	Deep	187 5	10.78
Other:	Salty Minerals		Galvanized	Screen		<u> </u>		neires	209 10	10,10
	Fresh Sulphur Salty Minerals	Outside diam	Steel Fibreglass	Slot No.			rate. (litres/mir If flowing give f		2 38 15 2 50 20	10.32
After test of wel	l yield, water was		Plastic Concrete				(litres/mir	$\frac{-5}{25}$	256 25	10.20
Other, specific	<u> </u>		No C	asing or Scr			If pumping disc ued, give reaso	40	268 40	10,00
Chlorinated 7	Yes 🗌 No		Open hole		14.00	45,72		60	ס דר <u>50</u> ק. ד <u>ל 60</u>	
Depth set at - M	Plugging and S		y, neat cement slurry) etc Volur	bandonment ne Placed c metres)	In diagram belov	Loc v show distances o	ation of Well of well from road	lot line, and b	uilding.
From T	77 Nea	temo	tSlur		BI6	Indicate north by	v show distances of arrow.	alt		>
10.97	o bent	Drite	Slurr	q . 3	63	. Vos	presi	7/4		
						Late		je je	1.24	m
		Method of Cor	nstruction					+ 7	$\sum_{i=1}^{n}$	
Cable Tool	Rotary entional) XAir pe		Diamond		Digging Other		ġ	Y Z I	K) •
Rotary (reven	se) Boring	Water U	Driving	·····			69#	3/18		
Domestic	Indust	ercial	Public Supr] Other			Date Well		
	Munici	Final Status	of Well		lanad (Otto)		39914	Date Weil C	FOCE	
Vater Supply Observation	well 🔲 Abandoned	vell I, insufficient supp I, poor quality	Unfinished U U U U U U U U U U U U U U U U U U U		oned, (Other)	Was the well ov package delivered	vner's information ed?		2006	ച്പ്
Name of Well Co	Well Co		ician Informatio		Licence No.	Data Source	Minis	Contractor	1 1 0	
HIR KO	s (street pame, num	tuber, city etc.)	GLTE	> 111	1 	Date Received	2006, MM	DD Date of Insp		MM DD
K-	echnician (last name	thon	M HAT	Kon (ell Technician's		APR 2 Remarks	2000	Well Recor	d Number	
Signature of Per	Sent chnician/Contractor	Lan	Da	ate Submitted	<u>58</u> `0408					
0506E (09/03)	my co	Contrac	ctor's Copy 🗋 N	linistry's Copy		ner's Copy		Cette formule	est disponible	e en français
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(P) Or	ntario ¦	Ministry of		Well Tag	Number (P	Place sti	cker and prin	t number b	elow)						ecord
		he Enviror	nment		A 036	535	99			Regulati	on 903	Ontari			urces Act
Instructions	for Completin	ng Form			A035399								pa	age	of
 All Section Question All metro 	n the Province ons must be con is regarding com e measurement	npleted in f pleting this s shall be	full to avoi s applicati reported	d delays on can b	in process e directed	sing. to the	Further ir	nstructio	ons and	explanations a ient Coordina	are ava	ilable o 416-23	on the ba	ck of	this form.
	rint clearly in blu			lell Info	rmation				co					от	
First Name		Last Nam								r/Name, RR,Lo			ي ا د بناري ۱		· .
County/District	Custom Buil	ding	Township	/City/Town	n//illage	5		get D		Code) hone N	lumber (i	nclude	area code)
Ottawa	Carleton		Kana	•	n/ village			ntario		3C5	61			noidae	
	Il Location (County	/District/Mu	nicipality)		Т	Fowns	•				Lot	~	Conces	ssion	
Ottawa RR#/Street Nu	Carleton mber/Name					City	0 sgood //Town/Vil	e lage		Site/	Compa	3 rtment/l	Block/Tra	act etc).
Lot 23 GPS Reading	South Vill		a	North	ing	Uni	Gr t Make/Mo	eely_	Mode	of Operation:		fferentiate	ed 🗔	Avera	
	8 3 18	454	882	50	124B3	Ga	armin					rentiated,			
Log of Over General Colour	burden and Be Most common		aterials (Other Mat					Gonoral	Description			Dept	h	Metres
		Indicid							General				From	m	To
brown	sand												0		1.21
gray	sand & gr	aver						we					1.21		3.04
<u>gray</u> gray	clay sand & gr	avol						pa	cked				3.04		11.88
gray	limestone												13.10		48.76
	white sand												48.76		95.09
							······································								
				-				<u>.</u>						ļ	
	Diameter etres Diameter			Cons	truction Re	ecord		. Mad		Pumping test n			V Down	R	ecovery
	To Centimetres	Inside diam	Mate	rial	Wall thickness		Depth	Met				Time W	/ater Level	Time	Water Level Metres
0 1	4.93 22.75	centimetres			centimetres	s	From	То)	submerst Pump intake s	etat-	Static	Metres	min	Mettes
14.93	95.09 15.23		Steel	Fibrealass	Casing			1		Pumping rate -).95	Level	10.32	1	10.21
										(litres/min) 5	4.6				
Water Water found	r Record Kind of Water		Galvanize		0.48	+	•45	14.9	3	Duration of pur	nping min	2	10.32	2	10.22
at Metres	Fresh Sulphur		Steel Plastic	, .						Final water lev		3	10,33	3	10.22
	Salty Minerals		Galvanize	,						Recommended	pump		10.00	4	
· · · · · · ·	Fresh Sulphur		Steel	, , ,						type.	Deep		10.33		10.23
Gas	Salty Minerals		Plastic Galvanize	Concrete d						Recommended depth. 45		5	10.33	5	10.22
NOT TEST	ED · · · · · · · · · · · · · · · · · · ·		·		Screen			· · ·		Recommended	pump	10	10,33	10	10,222
Gas	Salty Minerals	Outside diam	Steel	Fibreglass	[*] Slot No.					rate. (litres/mi If flowing give		00	10.33	15 20	10.22
	ll yield, water was			_						(litres/mi	ו)		10,34 10,34		$10.22 \\ 10.20$
Clear and se			Galvanize		asing or S	oroon				If pumping disc ued, give reaso	ontin- n.	30 40	10.34		10.19 10.19
			Open hole		asing or 3	Creen		T					10:34	50	10.19
Chlorinated		15,23				_	4.93	95.0	9				10,34	60	10,19
Depth set at - M	Plugging and Se			Annula	Vetc Vol	lume P		In diagra	am below	Loc show distances		of Well	, lot line, a	and bu	ilding.
				-		ubic me	etres)	Indicate	north by	arrow.					
14.93	0 Groute	d Bento	nite S	Lurry_	1-3	8m3			R° i	$\left(\right)$		i Loi	+23	1	
				5				Hund	0			1 1		ł	
								Ħ				, 1	wella	ų	
		N - () ((0	·				相					back		
Cable Tool		Method of (air) mud		Diamond		Di	gging	Acscott			•				
Rotary (conv Rotary (rever	enuonai) 🔄 Air per	cussion	=	Jetting Driving		Ot	ther	ď	a se						
			er Use	Shving	-			R		Louth					
Domestic Stock	Industr			Public Supp Not used	bly -	Ot	ther	Ø		South Vil	as	-			
Irrigation	Municij		tus of We		ir conditioning	9		Audit N	^{io.} Z	39272	Da	te Well (Completed	rY .	MM DD
Water Suppl	y 🗌 Recharge w			Unfinished	Aba	ndone	d, (Other)		e well ov	ner's information		te Delive	200 red y	YYY	03 30 MM DD
Conservation		l, insufficient s , poor quality	··· =	Dewatering Replaceme			[packag	e delivere				200	6	03 30
	Well Cor	ntractor/Te		nformatio		r'e Linn	nce No	Data S	ource	Minis	try Us	e Only			
Name of Well C Capital		v Ltd.	· · · · · · · · · · · · · · · · ·	V	1558	3 100						e Only	- 1		
	Capital Water Supply Ltd. 1558 usiness Address (street name, number, city etc.) Date of Inspection Box 490 Stittsville Ontario K3S 1A6 Date Received Iame of Well Technician (last name, first name) Well Technician's Licence No.														
		first name)	-TO VJ3	W	ell Techniciar	n's Lice	ence No.	Remar			We	ell Recor	d Number		•
	Stephen mician/Contractor	2		Da	TOO97 ite Submitted Y		MM DD								
0506E (09/03)	man	Cor	tractor's Co	 M □ vqc	20 linistry's Cor	006 □		ner's Cor	у 🗖		Cette f	ormule	est dispo	nible	en français
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	linistry of Well	A 03	6046	·below)	Regulation 903 Ontari	Well Record
Instructions for Completing	g Form	HOE	560.	46	A	page of
 For use in the Province o All Sections must be com Questions regarding comp All metre measurements Please print clearly in blue 	f Ontario only. This doc pleted in full to avoid de pleting this application ca s shall be reported to 1	lays in processing an be directed to t /10 th of a metre.	. Further ins he Water W	tructions and /ell Managem	explanations are available o ent Coordinator at 416-23 Ministry Use Only	n the back of this form. 5-6203.
Well Owner's Information a	and Location of Well	Information	MUN		N	
RR#/Street Number/Name GPS Reading NAD Zone 8 3	455mBe	Northing 290	ty Town/Villa		of Operation: Undifferentiated	ad Averaged
General Colour Most common r		r Materials		General	Description	Depth Metres From To
\sim	and or Bon	blers	_			0 15 85
	ark Grey	Linest	one			15,85 24,69
Hole Diameter Depth Metres Diameter		Construction Recor		Matroo	Test of We Pumping test method Draw	Down Recovery
From To Centimetres	lnside diam Material	Wall thickness	Depth From	Metres To		ater Level Time Water Level Metres min Metres
0 24.69 15,23	centimetres	centimetres Casing	FIOIN		Pump intake separa Static	
					Pumping rate - 1	5.04 1 4.26
Water Record		^{rete} .48	0	18,09	(litres/min)	5.16 2 4.21
Water Record Water found at Metros Kind of Water	Galvanized	glass		10,	hrs +min	
m Frest OSulphur		rete			of purpting metres	5,17 34,16
Gas Salty Mineres	Galvanized	nlass			Recommended pump 4	5.22 4 4.11
Gas Salty Minerals					Shallow Deep Recommended pump 5	5,04 5 4,08
	Galvanized				Recommended pump 10	530 10 402
m Fresh Sulphur Gas Salty Minerals	Outside Steel Fibre	glass Slot No.			rate. (litres/nhin) 15	33 15 3,99
Other:After test of well yield, water was		-			If flowing give rate - 20 (litres/min) 25	35 20 3 97
Ciliarand section free OT	Galvanized				If pumping discontin- ued, give reason.	39 30
Other, specify		No Casing or Scree			40	4 0 40
Chlorinated 🕁 🗠 es 🗌 No	Open hole		17,68	24,69	60	542 60
Plugging and Sea	/	. <u>Volumo</u>	Indonment Placed	In diagram bolou	Location of Well show distances of well from road,	lot line and building
Depth set at - Metres From To 17,68 14,63 Negat	e (bentonite slurry, neat coment - Cervent Stu- tonite Stu	(cubic r		Indicate north by		
					#6970	
M	lethod of Construction	/			South Vilka	e Jakm
Cable Tool Rotary (Rotary (conventional) Rotary (reverse) Boring		, 🗌 (Digging Other		# 6970 South Vilka Drive	
Domestic Industria Stock Comme	al Dublic rcial Not us		Other	Audit No	Date Well C	* Completed
Water Supply Recharge we	Final Statús of Well	shed Abandon	ied, (Other)		39992 mer's informationDate Deliver	2006 64 19
Test Hole Abandoned,	insufficient supply Dewat poor quality Replac tractor/Technician Inforr	cement well	I L		Ministry Use Only	
Name of Well Contractor	Links Cal	Well Contractor's Lie	7	Data Source	Contractor	L 19
Name of Well Technician (last name, f	DAN	Well Technician's Li	MM DD	JUN I C Remarks	Well Record	d Number
X (09/03)	Contractor's Copy	den (Chr.	r's Copy 🔲	Cette formule	est disponible en français

	Ministry of he Environment	Well Ta)43535	ber below)	Regulation 903 Ontar	Well Record
Instructions for Completin	a Form	A Ac	5435	35		page of
 For use in the Province of All Sections must be con Questions regarding com All metre measurement 	of Ontario only. Thi ppleted in full to avo pleting this applicat s shall be reported	bid delays in proces tion can be directed	ssing. Further i d to the Water	instructions and	□ lease retain for future refer d explanations are available on nent Coordinator at 416-23 Ministry Use Only	on the back of this form.
Please print clearly in blue Well Owner's Information		Nell Information	MUN	CC	DN DN	LOT
Ottonb		eton		mde		6
RR#/Street Number/Name	uth Beac 3. 454569	h Blud Solialia		eeu odel Mode	of Operation: Undifferentiat	ed Averaged
Log of Overburden and Be General Colour Most common) ,			Depth Metres
General Colour Most common		Other Materials		Genera	I Description	From To
Gre	21 Lino	store				13 10 2295
	Sand	Istone				28 95 34 44
V	line	stone				34,44 41,14
	Sand	store.				41, 14 42,66
					· · · · · · · · · · · · · · · · · · ·	
Hole Diameter	· · · · · · · · · · · · · · · · · · ·	Construction R		1	Test of We	
Depth Metres Diameter	Inside	Wall	Depth	Metres		Down Recovery
From To Centimetres	diam Mate	erial thickness centimetre	_	То		ater Level Time Water Level Metres min Metres
0 40. 5.00	· · · · · · · · · · · · · · · · · · ·	Casing				
		Fibreglass		15.84	Pumping rate - 50 1	5.12 1 39,29
Water Record	5,88 Plastic			15, ~ `	Duration of pumping 2	3.00 2 37.35
Water found A Marcon Kind of Water Marcon Fresh Component		Fibreglass Concrete			Final water level end 3	0.17 3 33,35
Gas Salty Minerals	Galvanize	d			Recommended pump 4	226 4 38 %
Gas Salty Minerals]Fibreglass Concrete			type. Shallow Deep Recommended pump 5	4.10 5 31.79
Gas Salty Minerals	Galvanize				deption. metres	10 716
m Fresh Sulphur Gas Salty Minerals	Outside Steel	Fibreglass Slot No.			Recommended pump rate. (litres/min) 10	6.88 15 7.51
Other: After test of well yield, water was	diam Plastic	Concrete				0,53 20 5,70 3,16 25 BAS
Other specify	Galvanize	No Casing or S	Screen	*	If pumping discontin- ued, give reason: 30 40	$4.94 30 11.53 \\ 7 50 40 -34 $
Chlorinated Chyes No	ppen hol		15,23	42,66	50 4	0,00 50 7,92
Plugging and Se		🔏 Annular space	Abandonment	403	Location of Well	1.72 60 5.48.
B d d d d d d d d d d d d d d d d d d d	e (bentonite slurry, neat co	ement slumu) etc V	olume Placed cubic metres)	In diagram belov Indicate north by	v show distances of well from road	, lot line, and building.
15.0312.19 Neat	Correct SI	wiry -	227			
12HO Beston	nte sil	ring	.781	B	32 South each Blud	
					T	$- \theta = \tilde{\delta}$
	······································			50	6	> JE
Cable Tool	air)	t ion Diamond	Digging		× 1.5Km	225-
Rotary (conventional)		Jetting Driving	Other		\mathfrak{D}	00
Domestic Industria	Water Use	Public Supply	Other			
Stock Comme	rcial	Not used Cooling & air conditionir		Audit No.	Date Well O	Completed
	Final Status of We			Z	48636 Date Deliver	0006 07 34
	insufficient supply	Dewatering	andoned, (Other)	Was the well ow package delivere		2006 006
	poor quality tractor/Technician			Data	Ministry Use Only Contractor	
Name of Well Ontractor	HUINE Ce		or's Licence No.	Data Source		1119
Business Address (street name, numb	er, city etc.)	I THP QU	6720	Date Received	7 ^{YY} 21006 ^{MM} DD Date of Insp	ection YYYY MM DD
Name of Well Technician (last name, f	irst name)	en T	n's Licence No.	Remarks	Well Record	d Number
Signatore of Technician/Generactor	>	Date Submitted	m BR 2			
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	Ministry of Well Ta the Environment	A 043520	nber below)	Well Record Regulation 903 Ontario Water Resources Act
Instructions for Completir	na Form	A0435	20	page of
 For use in the Province All Sections must be cor Questions regarding corr 	of Ontario only. This docum npleted in full to avoid delays pleting this application can b ts shall be reported to 1/10 ^t	in processing. Furthe be directed to the Wate	r instructions and	→ Please retain for future reference. d explanations are available on the back of this form. ment Coordinator at 416-235-6203. Ministry Use Only
Well Owner's Information	and Location of Well Info	rmation MUN	C	ON
RR#/Street Number/Name GPS Reading NAD Zor 8 3 2 Log of Overburden and Be	th Beach Bl 3 45464B 50	12199 12	Model Mode	e of Operation: Undifferentiated Understand
General Colour Most common		terials	Genera	al Description Depth Metres From To
Eren	1 linester 1 Sondste	e re		0 13.10 13.10 36.57 36,57 53.33
Hole Diameter	Const	truction Record		
Depth Metres Diameter	Inside	Wall Depth	Metres	Test of Well Yield Pumping test method Draw Down Recovery
From To Centimetres	diam Material centimetres	thickness centimetres From	То	Subput fime Water Level Time Water Level min Metres min Metres
0 05 0-		Casing	······································	Pump interest 5 Static 78 396 (metrest 8, Level 078 396
	See Fibreglass Plastic Concrete Galvanized	.48 0	15,84	(metres) 0, Level 0 Pumping rate (litreeming 6) 1 1273 1 19,60
Water Record Water found at Marks Kind of Water	Galvanized	1-10-0	,ر ا	Duration of pumping 2 3 6 2 7 8 hrs + 0 min
Cas Sulphur				Final water layer end 3 14 38 3 15.08
Other:	Galvanized			Recommended pump 4 15 00 4 14.17
Gas Salty Minerals	Plastic Concrete			Recommended pump 5 545 5 308 depth 4 8, metres
m Fresh Sulphur		Screen		Recommended pump 10 736 10 11.15
Gas Salty Minerals	Outside diam Steel Fibreglass	Slot No.		rate. (Ittres/hin) 15 8 53 15 0 90 If flowing give rate - 20 9 4 20 10,89
After test of well yield, water was	Galvanized			(litres/min) 25 20 08 25 10.87 If pumping discontin- 30 20 57 30 10.855
Otherstor		asing or Screen		40 21. 30 40 10. 83
Chlorinated Yes 🗌 No	Ó Dopen hole	15.23	53.33	5071.63 50 10.805 607.96 60 10.79
Plugging and Se Depth set at - Metres Material and typ	e (bentonite slurry, neat cement slurry)	etc Volume Placed	In diagram below	Location of Well
From To Neg	+ Cenet-Stur		Indicate north by	
1219 0 Bent	mite Slurri	1 .735	#1350	
		•	- De	ach Blvd
	······		3	
Cable Tool Rotary (lethod of Construction air) Diamond		V.	\$ 1.3 KM ES
Rotary (conventional) Air perc Rotary (reverse) Boring		Other	s, ¹ ℓ	62
Domestic Industria		y 🗌 Other		9
		r conditioning	Audit No. Z	48637 Date Well Completed
Water Supply Recharge we Observation well Abandoned,		Abandoned, (Other)	Was the well ow package delivered	d? Nes No
Test Hole Abandoned, Well Cont	tractor/Technician Informatio	n		Ministry Use Only
Name of Well Contractor	HAG COLTD	Il Contractor's Licence No.	Data Source	Contractor 1119
Business Address (street name) numb	er, city etc.)	KOAZZO	Date Received	7 200 Date of Inspection YYYY MM DD
Name of Well Technician (last name, f	irst name) Ken We	Il Technician's Licence No.	Remarks	Well Record Number
Signature Technician/Contractor	Dett			
0506E ^(09/03)	Contractor's Copy 🗌 Min		ner's Copy	Cette formule est disponible en français

Ontario Ministry of the Envir		A 043522	' nber below)	Regulation 903 Ontar	Well Record
Instructions for Completing Form	A A	04355	22		page of
 For use in the Province of Ontar All Sections must be completed in Questions regarding completing the 	n full to avoid delays in	n processing. Further i	nstructions and	l explanations are available o	on the back of this form.
 Questions regarding completing if All metre measurements shall b Please print clearly in blue or blac 	e reported to 1/10th o			Ministry Use Only	
Well Owner's Information and Loc		mation MUN	CC	DN N	LOT
Uttant - Car	leta	City/TownWi	ood e	∩ Site/Compartment/	/Block/Tract etc.
RR#/Street Number/Name	th Villac	ebr G	reely	Mon AM-10	765 7413
GPS Reading NAD ZOPS Eas	480/ Dola	2320 11009	elbn	of Operation: Undifferentiat	
Log of Overburden and Bedrock M General Colour Most common material	Aaterials (see instru Other Mater		Genera	I Description	Depth Metres
			Gonora		From To
Sondy C	lan, Sa	rd grav	el		5,18 1097
Limels	and'			· · · · · · · · · · · · · · · · · · ·	10,97 24,99
a 					
	· · ·				,
	<i></i>				
				T	
Hole Diameter Depth Metres Diameter Inside Inside	Constru	Wall Depth	Metres	Test of We Pumping test method Drav	v Down Recovery
From To Centimetres diam		thickness centimetres From	То	Sub Pump Time M	Vater Level Time Water Level Metres min Metres
0 24, 97 15.4 centimetre		Casing		Pump intake set al Static (metres)	327 485
	Steel Fibreglass			Pumping rates 1	36 1 3,56
Water Record 15, 8	Plastic Concrete	,48 0	16.00	Duration of pumping 2	4,50 2 3,51
A Metres Kind of Water	Steel Fibreglass			Lhrs + min Final water law grand 3	1,56 3 3,46
Gas Sulty Minerals	Plastic Concrete			of pumping metres	
Other 3216 TTTTTTT				Recommended pump 4 4 type. Shallow Deep	4.6° 4 3.45
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KRA I KICHMO	ND ONT	KOA 220	Date Received	J 7 2006	· · · · · · · · · · · · · · · · · · ·
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	linistry of ne Environment	Well T: A 043	463	mber below)	Regulation 903	Well Record 8 Ontario Water Resources Act
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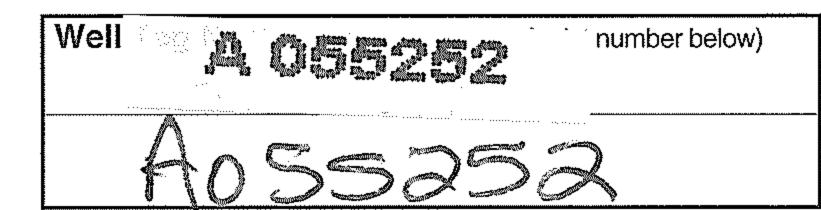
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Instructions for Completi	na Form	Ans	25	$\bigcirc \bigcirc$	page of
• For use in the Province	of Ontario only. Th	is document is a peri	manent leg	al document. P	→ lease retain for future reference
 All Sections must be con Questions regarding cor 	mpleted in full to ave npleting this applica	oid delays in process ation can be directed	ing. Furthe to the Wa	r instructions and	d explanations are available on the back of this form. Desk (Toll Free) at 1-888-396-9355.
 All metre measuremen Please print clearly in blue 	ts shall be reporte	d to 1/10 th of a metre	»		Ministry Use Only
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Appress pr well Location (County	(District/Wunicipality)	10	wnship	۸	Lot
RR#/Street Number/Name	arleto		City/Town/	eede	Site/Compartment/Block/Tract etc.
GPS Reading NAD Zon	h Beach	Northing		eely	4M-1265 516 117
8 3	3 454738	3 5012250	110 -		e of Operation: Undifferentiated Averaged Differentiated, specify
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Nho	e Sand	Stare			45,72 48,77
	•	• • •••••••••••••••••••••••••••••			
					-
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	Steel]Fibreglass			Pumpintake set at - Static (metros) - Static Lever 0, 43 3,44 Pumping rate - 1 1,13 1 1,40
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Other:	Galvanize	Screen			Recommended pump 10 27- 10 10.50
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Other, 'specity TED		No Casing or Scr	een		If pumping discentin- ued, give reason. 30 3.28 30 10.45 40 1.34 3 40 10.40
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Death and Main	e (bentonite slurry, neat ce	ment slurn) etc. Volum	e Placed c metres)	In diagram below Indicate north by	show distances of well from road, lot line, and building
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M Cable Tool Rotary (a	ethod of Constructi		Diaging	¢.	T, IKM S B
Rotary (conventional)	ussion 🗌 J	etting	Digging Other	180	Souther
Rotary (reverse) Boring	Water Use	Driving			
Domestic Industria		ublic Supply	Other		
Irrigation Municipa		cooling & air conditioning		Audit No.	55596 Date Well Completed
Water Supply Recharge we			ned, (Other)	Was the well own	ner's information Date Delivered YYYY MM DD
Test Hole Abandoned, r	poor quality	ewatering eplacement well		package delivered	E autria
Name of Well-Gentractor	ractor/Technician In	formation	icence No.	Data Source	Ministry Use Only Contractor
HIR KCK	<u>illing</u>	OLAD IL	19	Date Received	2-21007 Data of Inspection
14 I described a la la ser la	MADAN	ONT Kof	6250		
L TOGAN 3	And the second s	Well Technician's L		Remarks	Well Record Number
Signature of Technician/Contractor	>	Date Submitted	0123		
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			·		Kanna 2 / F I ^{mm} C.S. M ^a

😵 Ontario	Ministry of the Environment	Well 1		int number below)	Regulation 903 Ontar	Well Record
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 For use in the Province All Sections must be compared by the section of the se	e of Ontario only. The ompleted in full to avoid mpleting this applicants shall be reported	oid delays in processin ation can be directed t	g. Further	instructions and	J lease retain for future refer d explanations are available o Desk (Toll Free) at 1-888-3 Ministry Use Only	on the back of this form.
F Address of Well Location (Coun			/pship		Lot se	Concession
RR#/Street Number/Name	Lake Fe	nest haf Bold 465	Dity/Town/W Init Make/M	6 ree	of operation: Undifferentiat	Block/Tractery 265 127 ed Averaged
General Colour Most commo	n material nd Gizu Mestone	Other Materials		Genera	al Description	$\begin{array}{c c} \hline Depth & Metres \\ \hline From & To \\ \hline O & 1250 \\ \hline 1250 & 54.86 \\ \hline 1250 & 54.86 \\ \hline \end{array}$
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Name of Well Contractor DRIL	UNG COL	Well Contractor's Lic	ence No.	Data Source	Contractor	
Business Address (street-name, num	ber, city etc.)	N KOA2	LO	Date Received	2 2007 MM DD Date of Inspe	ection YYYY MM DD
Name of Well Technician (last name,	first name) 	Well Technician's Li	cence No.	Remarks	Well Record	Number
Signature of Technician/Contractor	>	Date Submitted	01122		· · ·	
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m Fresh Sulphur		Screen	· · · · · · · · · · · · · · · · · · ·		Recommended pump 10	365 10	
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Other species 3	· · · · · · · · · · · · · · · · · · ·	No Casing or Scr	een		ued, give reason. 30	<u>3-74-30</u> -74-40	
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Test Hole Abandoned, poo Well Contrac	r quality Re	placement well			Ministry Use Only		<u> </u>
Name of Well Contractor	101	Well Contractor's	icence No.	Data Source	Contractor	111	9
Business Address (street name, number, o	city etc.)	ID 1119		Date Received			MM DD
Name of Well Technician (last name, first r	MOND E		icence No	Date Received APR 1 Remarks	Well Record N	1	
Signature of Technician/Contractor	s Ken	Date Submitted		nomans -		NUHDEL	
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Instructions for Completing Form



Well Record **Regulation 903 Ontario Water Resources Act**

page ____ of ____

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference. ۲
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form. ۲
- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355. ۲
- All metre measurements shall be reported to 1/10th of a metre. ۲

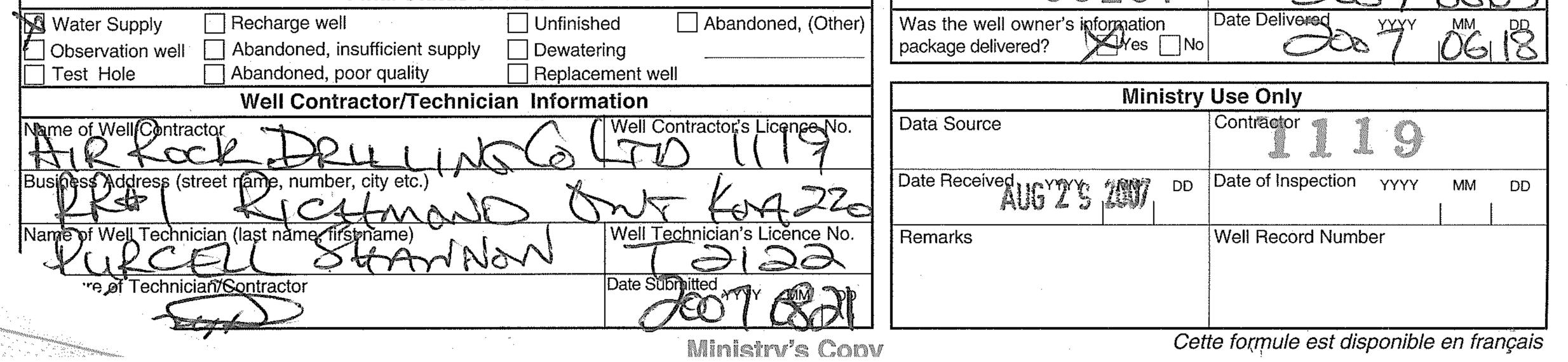
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Well Owner's Information and Location of Well Information

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□ Irrigation □ Municipal □ Cooling & air conditioning Audit No. Z 65197 □ Date Well Completed		al Cooling & a	ir conditioning		Audit No.	GG107 Date Well C	ompleted



Well Tag No. (Place Sticker and/or Print Below) Ministry of Ontario Ministry of the Environment Well Record Regulation 903 Ontario Water Resources Act Page of Well Owner's Information Filst Name Last Name nail Address Well Constructed by Well Owner ordor e(Inc elephone No. (inc. area code) ng Address (Street Number/Name, RR) IA 210 AM J >0× and Part A Construction and/or Major Alteration of a Well ownship of Well et Num Addre ber/Name, RR) Concess Δ Postal Code City/Town/Village Province Ontario < Easting Northing GPS Unit Make Mode of Operation: Averaged Undifferentiated 50/191 Mae 3 lo 55 NAD 8 3 Offerentiated, specify Overburden and Bedrock Materials (see instructions on the back of this form) Depth (Metre: General Colour Most Common Material General Description From we U me **Results of Well Yield Testing** Annular Space/Abandonment Sealing Record Depth Set at (Metres) Type of Sealant Used Volume Placed Check box if after test of well yield Recovery То (Cubic Metres) vater was (Material and Type) Time Water Leve Water Level 15 Clear-and sand free (Metres) (Min) (Min) (Metres) e Ó Cannot develop to sand-free Statio Stati state Level eve If pumping decontinued, give reason: 1 1 2 Pumping test me 3 3 Pump intake set at (Mekes) Water Use Method of Construction 4 4 Public Cable Tool Diamond Commercial Not used Domestic Pumping rate (Litres/min) Municipal Dewatering Rotary (Conventional) Jetting 5 5 Driving Test Hole Monitoring Livestock Rotary (Reverse) Rotary (Air) 🗌 Digging Irrigation Cooling & Air Conditioning Duration of pumping 10 10 Industrial Air percussion Boring min hrs + Other, specify Other, spec 15 inal water level end of pumping Status of Well (Metres) 20 20 Water Supply Dewatering Well Observation and/or Monitoring Hole Recommended pump typ Replacement Well Abandoned, Insufficient Supply Alteration (Construction) 25 25 Abandoned, Poor Water Quality Shallow Dee Other, specify Test Hole Recommended pump depth 30 30 Recharge Well Metre Location of Well Recommended pump rate Litres/min) 40 40 Please provide a map below showing: - all property boundaries, and measurements sufficient to locate the well in relation to fixed pointed 50 50 an arrow indicating the North direction
 detailed drawings can be provided as attachments no larger than legal size (8.5" by 140 If flowing give (Litres/min) 17 60 60 vidigital pictures of inside of well can also be provided Water Details Water found at Depth Kind of Water #16969 Fresh Salty Sulphor Minerals Metres Gas Water found at Depth Kind of Water Fresh Salty Sulphur Gas Minerals Metres Kind of Water Water found at Depth Gas Fresh Salty Sulphur Minerals Metres Casing Used Screen Used **Casing and Well Details** eter of the Hole (Centimetre Galvanized Galvanized Steel Steel Depth of 144 Fibreglass DIA eglass Date the Well Record and Package Plastic Plastic Package delivered vy/mm/ddi Relivered to Well Owner (yyyy/mm/dd) Wall Thick Concrete Concrete 3. No No Casing and Screen Used Well Contractor and Well Technician Information a (Metres nside (eter of the C Open Hole ce No MRILLING Depth of the Casing (Metres) TD No No Ministry Use Only al Code Business E-m Well Contractor No udit No z 78174 04220 Date Received (yyy APR 2 8 2008 chnician (Last Name, First Name) Date of Inspection (yyyy/mm/dd) econtres Date Submitted /mm/dd Remarks -0 @ Queen's Printer for Ontario, 2006 Ministry's Copy

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1326	Son	the	Par	K Blel	own/Villag	0710	wa	110	Provinc	·e	Postal	Code
County/District/Mur	nicipality	1.to		City/1	GT	Tax in	- Ilmertes	_	Onta		KHI	PILIME
UTM Coordinates	Zone East	ing No	orthing	GPS Ur	nit Make	Model	Mode of	Operation:	Undiffer	entiated	Ave	eraged
NAD 8 3	1845	1455RS	012	125 W	TM	Mae	Jeban 🗌 Differe	intiated, specify				
Overburden and			ructions on	the back of this form Other Materials	n)	0	Canada	Description			Depth	(Metres)
General Colour	Most Con	nmon Material		Other materials			- / .	rescription			From	To
Brann	Jan	d					toose				0	5
brey	San	d,					looge	0			5	8
buy	gran	ef	1:	Soulder			packed	(8	13
Green	lime	stone					layero	1			13	48.7
-				Sec. 18								
				States of		1.322	and the second second					
			1.500	De la contra		1. 2. 10				No.		
				and the second second					-	1.000		
	Annula	r Space/Abando	nment Se	aling Record				Results of We	ell Yield	d Testina		
Depth Set at (Metre	and the second se	Type of Se	alant Used		Volume		Check box if after ter water was:		Dra	aw Down		tecovery
From To	2	(Material a	nd Type)	-	(Cubic N	Netres)	Clear and sand		Time (Min)	Water Leve (Metres)	(Min)	Water Level (Metres)
0 14.6		Ciment	900	w	13	Dig	Cannot develop state	p to sand-free	Static	3.8	Static	23,54
			-			/	If pumping discontin	ued, give reason:	Level 1	1	Level 1	
							Duranian land math		2	6	2	2
							Pumping test meth	S. L		7.01		2000
Method of	Construct	ion		Water Use			Pump in ake set at	(Metres)	3	7,84	/ 3	19.20
Cable Tool	Di	amond P		Commercial		ot used	- 38	.7	4 4	9.20	4	15.51
Rotary (Conventio			omestic vestock	Municipal Test Hole		ewatering lonitoring	Pumping rate (Litro	s/min)	5	10.30	5	13.11
Rotary (Air)		igging 🗌 In	rigation	Cooling & Ai			Duration of pumpin	ig	10	14,50	40	9 08
Air percussion Other, specify	В		dustrial ther, specif	V			hrs +	min	15	14		F 20
			of Well				(Metres) 23		20	17.25	20	200
Water Supply		ewatering Well		Observation			Recommended put			18.78	-	3.90
Replacement We Test Hole		bandoned, Insuffici bandoned, Poor Wa		Alteration (C		,	and the second se	Deep	25	20-11	25	
Recharge Well	A	bandoned, other, s	pecify				Recommended pu		30	21.50	> 30	an an the second se
Please provide a ma	an below sho		n of Well				Recommended pu (Litres/min)		40	27.5	1 40	
- all property bounda	aries, and me	asurements suffici	ent to locat	e the well in relation	n to fixed poi	ints,	3-)	50	7271	1 50	
 an arrow indicating detailed drawings of 	can be provid	led as attachments		han legal size (8.5"	by 14")		If flowing give rate (Litres/min)		60	2256	1 60	
- vidigital pictures of	inside of wel	I can also be provid	bed							0.2.2	/	
		4					Water found at D		of Wate		100	
							42 Metres		esh 🗌	Salty	Sulphur	Minerals
		South 1	Barrow	h		1	Water found at D		of Wate		Culobur	Minerals
		South	Jean	ut			Water found at D		of Wate		Supru	
							Metres		esh 🗌	Salty	Sulphur	Minerals
		M					Casing Used	Screen Use	_			II Details
	Lon						Galvanized	Galvanized	Dia	ameter of the	Hole (C	entimetres)
	L	Sm					Fibreglass	Steel	De	pth of the H	ple (Metr	es)
Date Well Complet		e well owner's info	mation	Date the Well Rec			Plastic	Plastic		48	.7	
(yyyyimmidd)		e delivered?	No	Delivered to Well (Owner (yyyy	/mm/dd)	Concrete	Concrete		all Thickness	s (Metres)
		ntractor and We	II Techni	cian Informatio	n			nd Screen Use		side Diamete	er of the (Casing (Metres)
Business Name of	Well Contra	ctor //	A .	Well Co	ontractor's Lie	cence No.	Open Hole		200	15.5		e a la compañía de la
Business Address	Street No./	Well	Drul	Municipality	71	9	Disinfected? Ves No		De	epth of the G	asing (M	etres)
1780	900Ea		,	N	ation	0	Ministry Use Only					
Province	Postal C	ode Busine	ss E-mail	Address	0.0)	Audit No Well Contractor No			air an		
Untario	KOF	the second s	[ochoisist	(Last Name First	Nama		z 79829			n/ddi		
6 11 3 9 8 10	Inc. area coo	(e) Name of Well	echnician	(Last Name, First			JUN 2 5 2008 Date of Inspection (yyyy/mm/dd)					
Well Technician's Lic	ence No. Si	gnature of Techni	ciary	Date S	submitted (y	yyy/mm/dd)	Remarks	2 0 2000	15.3			
349	3,	Mater	A	20	08/0.	5/30			1997 2013		-	
0506E (11/2006)					Ministry	's Copy				© Quee	s Printer	for Ontario, 2006

🕅 Ontario	Ministry of the Environment	l · · · · · ·	Place Sticker and		Well Record 903 Ontario Water Resources Act				
		0.6	4 05768	9	Regulation	903 Or	Page		
2++	-	<u> </u>	21607		_				
Well Owner's Informatio	Last Name		E-mail Address	e .					structed
Mailing Address (Street Number		Municipality		Province	Postal Code		elephone No		
6876 La Kes Part A Construction and	the second se	a Well	y	OqT.		700	I(P 1/6		
Address of Well Location (Stree		Townsh	ATT		Lot	C	Concession		
County/District/Municipality	Deach Blu	City/To	wn/Village	1 /	101	Provinc		Postal	Code
UTM Coordinates Zone, East	loton Northing	GPS Unit	OTTava Make Model	Greely M Mode of C	Operation:	Onta	r10 rentiated	1 Ave	raged
NAD 8 3 1 8 4	41512121510112	1119 UT	FM Ma		ntiated, specify				
Overburden and Bedrock N General Colour Most Cor	laterials (see instructions of mmon Material	o the back of this form) Other Materials	6	General D	escription				(Metres)
P 0					lan			From	U
Brown San Grey San	1.			0.	low		C	1	8
Gen aran	wel B	melder		Parke	d		2	8	11
Green time	tone	enanc		layered				1(418.7
				/	Sec. Sec.				
			ingen size.						
A	Canada harmont S	Contine Record			Results of We	II Viel	d Testing		
Depth Set at (Metres)	Type of Sealant Use	and the second	Volume Placed	Check box if after tes water was:	Contraction of the second s	Dra	aw Down		ecovery
From To	(Material and Type)	nt	(Cubic Metres)	Clear and sand		(Min)	Water Level (Metres)	Time (Min)	(Metres)
0 13.4	Cimen gro	nil	10 Day	Cannot develop state		Static Level	3.90	Static Level	23.89
				If pumping discontine	ued, give reason:	1	5.90	1	
				Pumping test metho	od	2	6.99	2	20.14
	•	Water Har		Pump intake set at	(Metres)	3	7.60	3	9.02
Method of Construct	iamond DPublic	Water Use	Not used	38.7		4	9m	4	15.78
Rotary (Conventional)	etting Domestic riving Livestock	Municipal Test Hole	Dewatering	Pumping rate (Litre: 53	s/min)	5	10.28	5	9.14
Rotary (Air)	igging Irrigation	Cooling & Air		Duration of pumpin	-	10	14.12	10	8.50
Other, specify	oring Industrial	ify		Final water level end	d of pumping	15	17.35	15	4.75
Water Supply	Status of Well	Observation ar	nd/or Monitoring Hole	(Metres)		20	18.52	20	4.40
Replacement Well	bandoned, Insufficient Supply	Alteration (Co	instruction)	Recommended pur	mp type Deep	25	19.96	25	States .
	bandoned, Poor Water Qualit bandoned, other, specify	y D Other, specify	/	Recommended pur		30	20. R2	30	
	Location of Wel	1		38.7 Metre Recommended pur	40	27 48	40		
Please provide a map below sho - all property boundaries, and me	easurements sufficient to loca	ite the well in relation t	o fixed points,	(Litres/min) 53		50	22.19	50	
 an arrow indicating the North d detailed drawings can be provided vidigital pictures of inside of we 	ded as attachments no larger	than legal size (8.5" b	iy 14")	If flowing give rate (Litres/min)		60	22 09	60	
- vagiar pictures or inside or we	ii can also be provided		174		Wate	r Detai	K2.001	-	
				Water found at De		of Wate			C. Manuala
	1.0	D		Water found at De	0000	of Wate		ulphur	Minerals
S	outh Beach			Metres	Gas Fr			ulphur	Minerals
	Howe			Water found at Do		of Wate		ulphur	Minerals
40m	House			Casing Used	Screen Use		Casing a		
	Om			Galvanized	Galvanized	Dia	ameter of the		entimetres)
				Steel	Steel	De	pth of the Ho	the second se	es)
(yyyy/mm/qd) / packag	e well owner's information	Date the Well Recor Delivered to Well Ov	d and Package wner (yyyy/mm/dd)	Plastic Concrete	Plastic Concrete	W	all Thickness	(Metres))
2008/05/30	Yes VNo				nd Screen Used	-	0.4	8	
Well Con Business Name of Well Contra	ntractor and Well Techr		tractor's Licence No.	Copen Hole	Santa State	lins	side Diameter		Casing (Metres
Dourscois	well Ori	line 11	4114	Disinfected?		De	pth of the Ca		etres)
Business Address Street No./	vame, number, RR)		Tion	I INO	Ministr	y Use (Only	10	
Province Postal C		Address		Audit No. z 79		-	ontractor No		
Ontario KICA Bus.Telephone No. (inc. area coo	BKB //	(Last Name, First N	lame)	Date Received (yyyy		Date of	f Inspection ()	yyyimn	Vdd)
611 398 7529	1 Michael		JUN	2 5 2008					
Well Technician's Licence No. Si	gnature of Technician	Date Sut		Remarks			in de la	1	1
0506E (11/2006)	and a	and al	Ministra's Con				© Queen's	s Printer	for Ontario, 20

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Ontario Ministry of the Environment	Well Tag No. A 0669	9 57	Well Record
Measurements recorded in:	A06695	57 Regulatio	n 903 Ontario Water Resources Act Page of
Well Owner's Information			Page of
1363 Sonth Beach County/District/Municipality O House Carlton UTM Coordinates Zone Easting NAD 8 3 184545925012 Overburden and Bedrock Materials/Abandonment Sea General Colour Most Common Material	City/Town/Village Greek Municipal Plan and Subley	Jumber 265 SL	Province Postal Code Ontario Other # 80 Depth (m/ft)
Sand & B Grey Un	detone		From 10 1250 12.50 41.14 41.14 54.80
Annular Space		Results of W	ell Yield Testing
Method of Construction Public Method of Construction Diamond Rotary (Conventional) Jetting Boring Digging	Well Use Commercial Municipal Test Hole Municipal Municipal Municipal	After test of wellpheld, water was: After test of wellpheld, water was: Other, specify Pump intake set at (m/ft) S & 81 Pumping rate (l/min / GPM) 34.07 Duration of pumping hrs + 0 min Final water level end of pumping (m/ft)	Draw Down Recovery Time (min) Water Level (min) Time (min) Static 8.14 12.30 1 9.70 1 11.13 2 0.12 2 10.47 3 10.68 3 10.15 4 1.00 4 9.90 5 11.79 5 9.73
Air percussion Industrial Other, specify Construction Record - Casing	Status of Well (m/fl) Water Supply To Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply	12-38 Inflowing give rate (Vinin / GPM) Recommended pump depth (m/ft) 51.81 Recommended pump rate (Vinin / GPM) 34.07 Well production (Vinin / GPM) Disinfected? Yes No	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Construction Record - Screen Outside Diameter (cmvin) (Plaste, Galvanized, Steel) Slot No From	To Cher, specify	Map of W Please provide a map below following	Fell Location instructions on the back.
Water Details Water found at Depth Kind of Water. Fresh Untested SQ (m/t) Gas Other Specify Water found at Depth King Water. Fresh Untested (m/ft) Gas Other Specify Water found at Depth King Other Specify Water found at Depth Kind of Waler: Fresh Untested (m/ft) Gas Other, specify Other, specify	From (anvin) 54,8 0 15.07		F1363 Brd
Well Contractor and Well Technicia Business Name of Well Contractor Arr ROUL Business Address (Street Number/Name) Province Province Postal Code Business E-mail Address	Well Contractor's Licence No.	at 1363 So Comments:	nth Beach
ONT KOA220 Bus. Telephone No. (inc. area code) Name of Well Technician (I Nell Technician's Licence No. Signature of Technician and/or Co T2/12240000000000000000000000000000000000	ast Name, First Name)	Well owner's information package delivered Yes No	24 Audit No. Z 80748

Well Tag No. for Master Well (Place Slicker and/or Print Below) A 085398

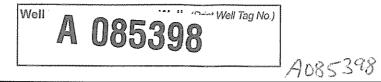
Ontario Ministry of the Environment

A085398

Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

Address c			et Number/Nan とowへ		RJ	To	ownship)				Lot	Concessio	2007
County/D	<i>a</i>			•		Ci	ity/Towr					<u>.</u>	Province	Postal Code
UTM Coor		Zone _i Easti		Northing			S Unit M		Model		Mode of O	peration:	Ontario Undifferentiated	Averaged
where the second s			15060						Etr	ex	Differen	tiated, specify		
Overl General	a fan de statent	nd Bedroc Common	k Materials (s Other		1	<u>1 the b</u> neral			(Metres)	Depth	(Metres)	Hole	Details Diamete	er \
Colour		aterial	Materia		Desc	cription		From	То	From	То	SECONDENSION NOT DESCRIPTION	(Centimet	res)
Gry	Gra	vel	Sand		sott,	dry		0	. 61	0	4. 88	10.92		
Brn	50	nd		· · · · · · · · · · · · · · · · · · ·	soft,			61	1.5				1	
6mg	(c)	lay		· · ·		mais		• 5	2.74					
Gry	5	:17			wet		2	2,74	4,88					
												·····	er Use	
										Public	Annual	and the second s	Not used Dewatering	Other, specify
										Livesto			Monitoring Cooling & Air Cond	litionina
			·										Construction	
		****								Cable	Tool (Convention	al)		
		99999999998888889999999999999999999999							· ·	Rotary	(Reverse)	Jetting	P Oth	er, specify
		· · · · · · · · · · · · · · · · · · ·		••••••						Rotary	(An)		of Well	245h
				AAAAA						Prest H			oned, Insufficient S	upply
											ement Well		oned, Poor Water (specify <u> </u>	
			Automotive					r.w.,		i i i i i i i i i i i i i i i i i i i			oned, other, specify	
	1			*****	A	###:#:A::A#A#				No Cas		zeen Used	Static Wat	er Level Test
1444-028-1401-100		A. 102 MA 190 M	Construc	tion De	tails	1910-1851/183				1 1 1 1 2 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1	Yes 🗍 N		FARTHAR AND A CONTRACTOR AND A CONTRACTO	tres
Inside Dia (Centime		seel plastic	Material fibreglass, cor			Wa Thickr		Depth (From	Metres) To	Galvar	iized 🗂 S	teel Fibre		ete CPástic
5.20	3		A +	Ser-	·····	.396		Õ	1.83	Outside D	lameter (Cei	k	Skot No.	
	-	pro	- , , ,	reen	******	·····			4.88	6	03		10	
		•				*****		· V	1 90	000000000000000000000000000000000000000	und at Depti		f Water	
				A77A#77\			and before the second sec			Mator for	Metres			Sulphur 💮 Minerals
		Annular	Space/Aban	donmer	nt Sealing F	Record	1			·	•	3		ulphur 🛄 Minerals
Depth Set From	at (Metre		Type of S (Material	Sealant L	Jsed			Volume Cubic I	e Used Metres)	Water for	Ind at Depti Metres		f Water sh	Sulphur ()) Minerals
0	.31	Con	crete/		A 10/00 (1/10)	nt		- outro i		Disinfecte	· · · · ·	No If no, provi	de reason: Date N	Aaster Well Completed
.31	1.5	1 -	nseal								· · · ·		oranyin 20	1000000000000000000000000000000000000
1.5	4.88		nd	,						Cluster	nformation	(Please also i	ill out the additio	nal Cluster Well
<u></u>	4.00			******	A. S. S. S. A. S.	··				Informat	<i>tion for Wel</i> Ils in Cluster	l Construction	for each parcel	of land and cluster.) Number of Cluster Well
				A							Ч			Sheets Submitted
.										l otal vve	Its on this \Pr	roperty		
<u> </u>										Detailed I		http://www.com/com/com/com/com/com/com/com/com/com/	Well Chuster	arger than legal size
				·						(8:5"x 14	"). Sketches	are not allowe	d	
					· · · · · · · · · · · · · · · · · · ·					[Irm detailed ma	ip is provided as p	per Section 11.1 (3)
										th				
		Well Conti	ractor and W	ell Tech	nnician Infe	ormati	ion	dr. 19						
Business N	lame of W	/ell Contracto	or	1.0	<u></u>		Contract	or's Lice	nce No.	M				
Business A	MACA address (S	treet No (Na	me-number, N	$\frac{111}{R}$	L. Mu	nicipali	1×	-9	<u> </u>	Ĩ.				
H)(Province	471	WBY	Beach		eer	KU	Chr	Non	c /c	<u>í fic</u>	2	Ministry	Use Only	
rovince	V)	Postal Cod		ess ⊵-ma	ail Address					Audit No.	₩ 02	2599	Well Contractor No	5
Sus.Telsph	$\sim 11 + 11$		Name of Well	1	•			,		Date Reco	P 222		Date of Inspection	(yyyymm/dd)
(JUD) Well Technik	cian's Licer	+BA	ature of Techn	Otre	Star -	Date	<u>こん</u> Submitt	<u>)</u> tęd (yyy	y/mm/dd)	OL. Remarks	1 4 4 6	.uu3		
311		9	$\exists >$				209/		<u> </u>					
1992 (11/200	6)		K.	BI	79L		t	1 8,2	inicim	'e Conv			© Queen's	Printer for Ontario, 2006

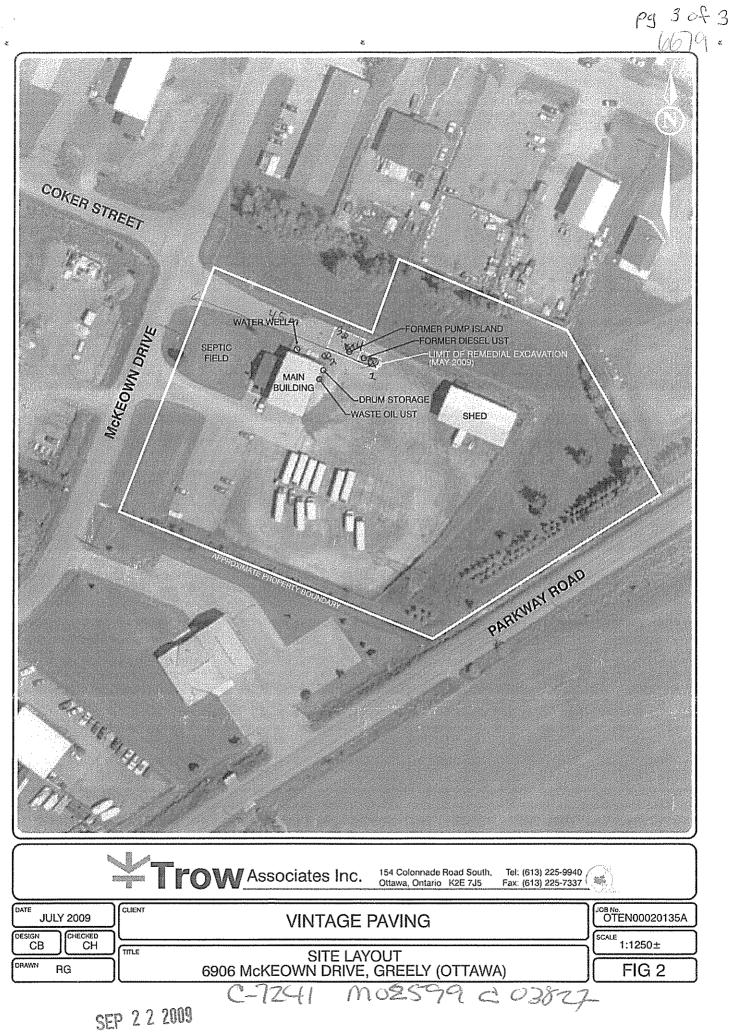




Cluster Well Information for Cluster Well Construction Regulation 903 Ontario Water Resources Act

6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	tion (Street Number/Name, RR) Lot Concession Township County/District/Municipality		icipality	upon request								
	શ								,		Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Provi	1	istal Code		PS Unit Make	Model Etrex	1	de of Oper	_	differentiated	Averaged		
OreclyOnt	ario			cermin	Errex	Differ	rentiated, s	specify:]	
Well # UTM Coordinates	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Mater	ial Casing Length (metres)	Screen In From	terval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 1 8 45 5 04 2 50 1 1 8 3 7	4.88	10.92	Direct Push	PVC	1.83	1.83	4.88	Benseal				2009/08/31
3 184550515011843	4.88	10.92	Direct Push	PUC	1.83	1.83	4.88	Benseal				2009/08/3
4 1845505250111837	4.88	10.92	Direct Phah	PUL	1.83	1.83	4.88	Benseal				2009/08/
							-					
Well Contractor and Well Technician In	formation	Bue	Add (6	<u></u>							Date 1st Well in Cluster Constructed Date Last	Well in Cluster Constructed
Business Name of Well Contractor Stratt SA SANDINE	21	DUSI T	2-141		Name, RR) BEAUU	$\left(\left(\right) \right)$		Richm	adth	Province ON	Ministry Use Only	
Postal Code A C Business Telephone N	No. (inc. area o	ode)	Well Contractor	's Licence No. B	lüsiness E-mail /	Address						pected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)	¥¥¥¥¥¥		Well Technician	s Licènce No. D 5 9 6	ate Submitted (v	yyy/mm/dd)	Signature <	e of Technician			Audit No. Remarks	07599
1991 (11/2006)	****	B	B, 1291		1 1	nistry's (Сору	Z	4			s Printer for Ontario, 2006



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Well Tag No. for Master Well (Place Slicker and/or Print Below) A 085398

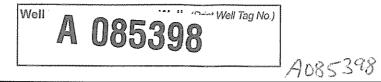
Ontario Ministry of the Environment

A085398

Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

Address c			et Number/Nan とowへ		RJ	To	ownship)				Lot	Concessio	2007
County/D	<i>a</i>			•		Ci	ity/Towr					<u>.</u>	Province	Postal Code
UTM Coor		Zone _i Easti		Northing			S Unit M		Model		Mode of O	peration:	Ontario Undifferentiated	Averaged
where the second s			15060						Etr	ex	Differen	tiated, specify		
Overl General	a fan de statent	nd Bedroc Common	k Materials (s Other		1	<u>1 the b</u> neral			(Metres)	Depth	(Metres)	Hole	Details Diamete	er \
Colour		aterial	Materia		Desc	cription		From	То	From	То	SECONDENSION NOT DESCRIPTION	(Centimet	res)
Gry	Gra	vel	Sand		sott,	dry		0	. 61	0	4. 88	10.92		
Brn	50	nd		· · · · · · · · · · · · · · · · · · ·	soft,			61	1.5				1	
6mg	(c)	lay		· · ·		mais		• 5	2.74					
Gry	5	:17			wet		2	2,74	4,88					
												·····	er Use	
										Public	Annual	and the second s	Not used Dewatering	Other, specify
										Livesto			Monitoring Cooling & Air Cond	litionina
			·										Construction	
		****								Cable	Tool (Convention	al)		
		99999999998888889999999999999999999999							· ·	Rotary	(Reverse)	Jetting	P Oth	er, specify
		· · · · · · · · · · · · · · · · · · ·		••••••						Rotary	(An)		of Well	245h
				AAAAA						Prest H			oned, Insufficient S	upply
											ement Well		oned, Poor Water (specify <u> </u>	
			Automotive					r.w.,		i i i i i i i i i i i i i i i i i i i			oned, other, specify	
	1			*****	A	###:#:A::A#A#				No Cas		zeen Used	Static Wat	er Level Test
1444-028-1401-100		A. 102 MA 190 M	Construc	tion De	tails	1910-1851/183				1 1 1 1 2 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1	Yes 🗍 N		FARTHAR AND A CONTRACTOR AND A CONTRACTO	tres
Inside Dia (Centime		seel plastic	Material fibreglass, cor			Wa Thickr		Depth (From	Metres) To	Galvar	iized 🗂 S	teel Fibre		ete CPástic
5.20	3		A +	Ser-	·····	.396		Õ	1.83	Outside D	lameter (Cei	k	Skot No.	
	-	pro	- , , ,	reen	******	·····			4.88	6	03		10	
		•				*****		· V	1 00	000000000000000000000000000000000000000	und at Depti		f Water	
				A77A#77\			and before the second sec			Mator for	Metres			Sulphur 🔅 Minerals
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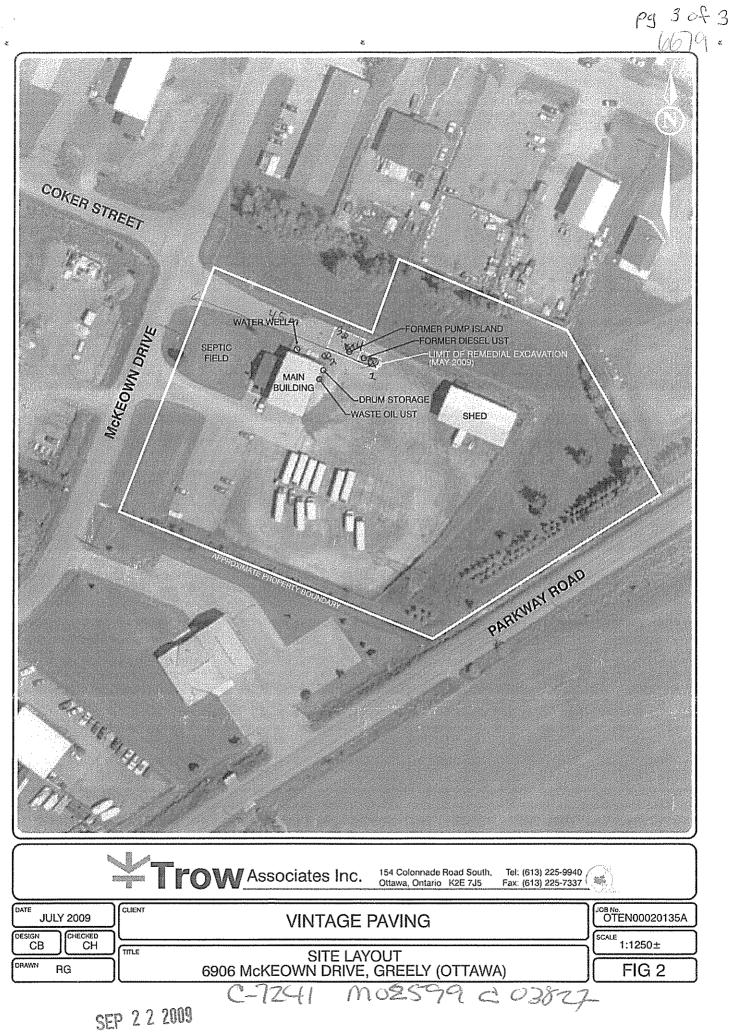




Cluster Well Information for Cluster Well Construction Regulation 903 Ontario Water Resources Act

6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	Lot	C	oncession	Township			Count	y/District/Mun	upon request			
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2 1 8 45 504 2 5011 837	4.88	10.92	Direct Push	PVC	1.83	1.83	4.88	Benseal				2009/08/31
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Well Tag No. for Master Well (Place Slicker and/or Print Below) A 085398

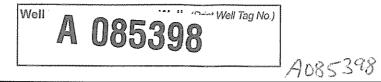
Ontario Ministry of the Environment

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Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

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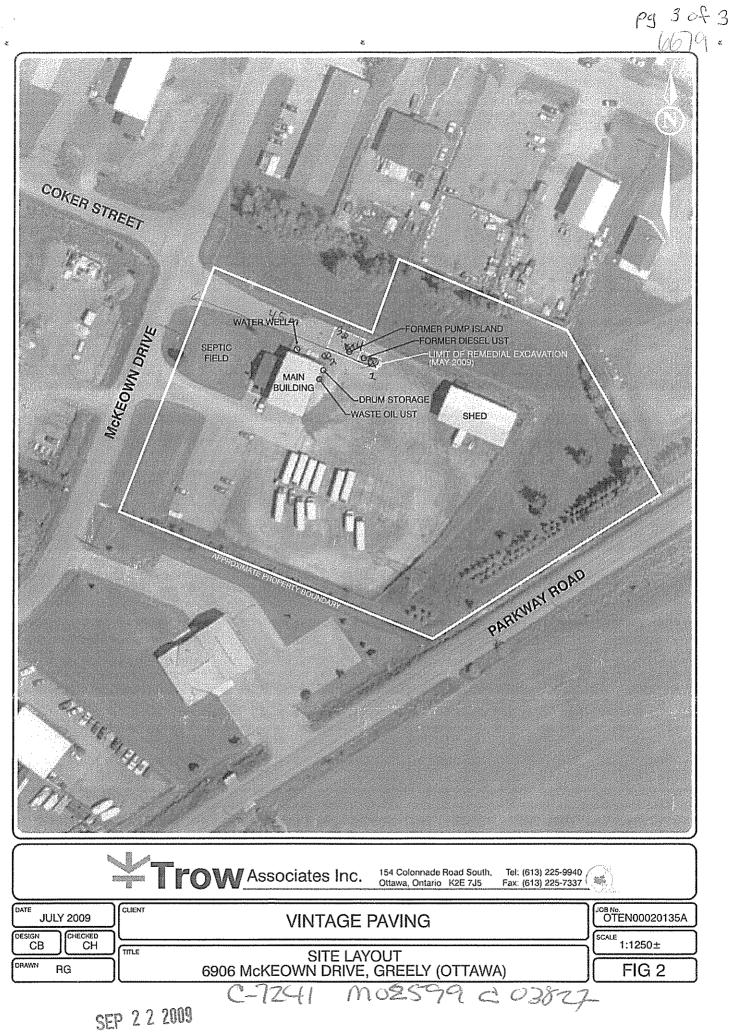




Cluster Well Information for Cluster Well Construction Regulation 903 Ontario Water Resources Act

6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	Lot	C	oncession	Township			Count	y/District/Mun	upon request			
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4 1845505250111837	4.88	10.92	Direct Phah	PUL	1.83	1.83	4.88	Benseal				2009/08/
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Well Tag No. for Master Well (Place Slicker and/or Print Below) A 085398

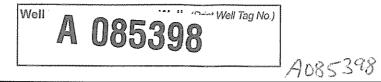
Ontario Ministry of the Environment

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Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act

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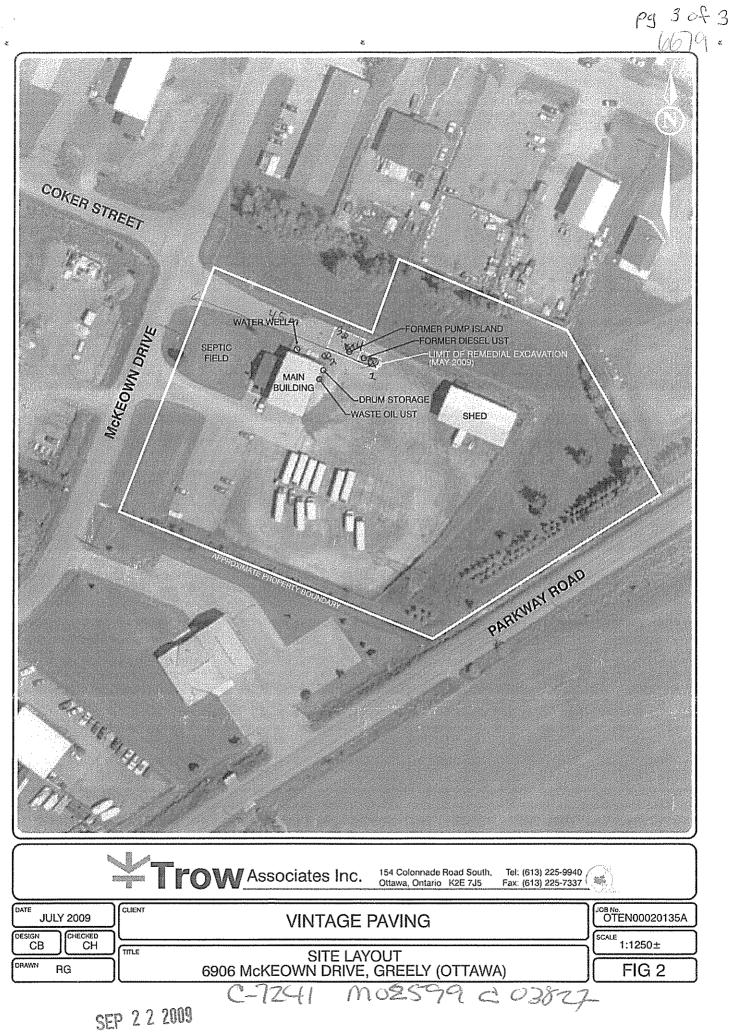




Cluster Well Information for Cluster Well Construction Regulation 903 Ontario Water Resources Act

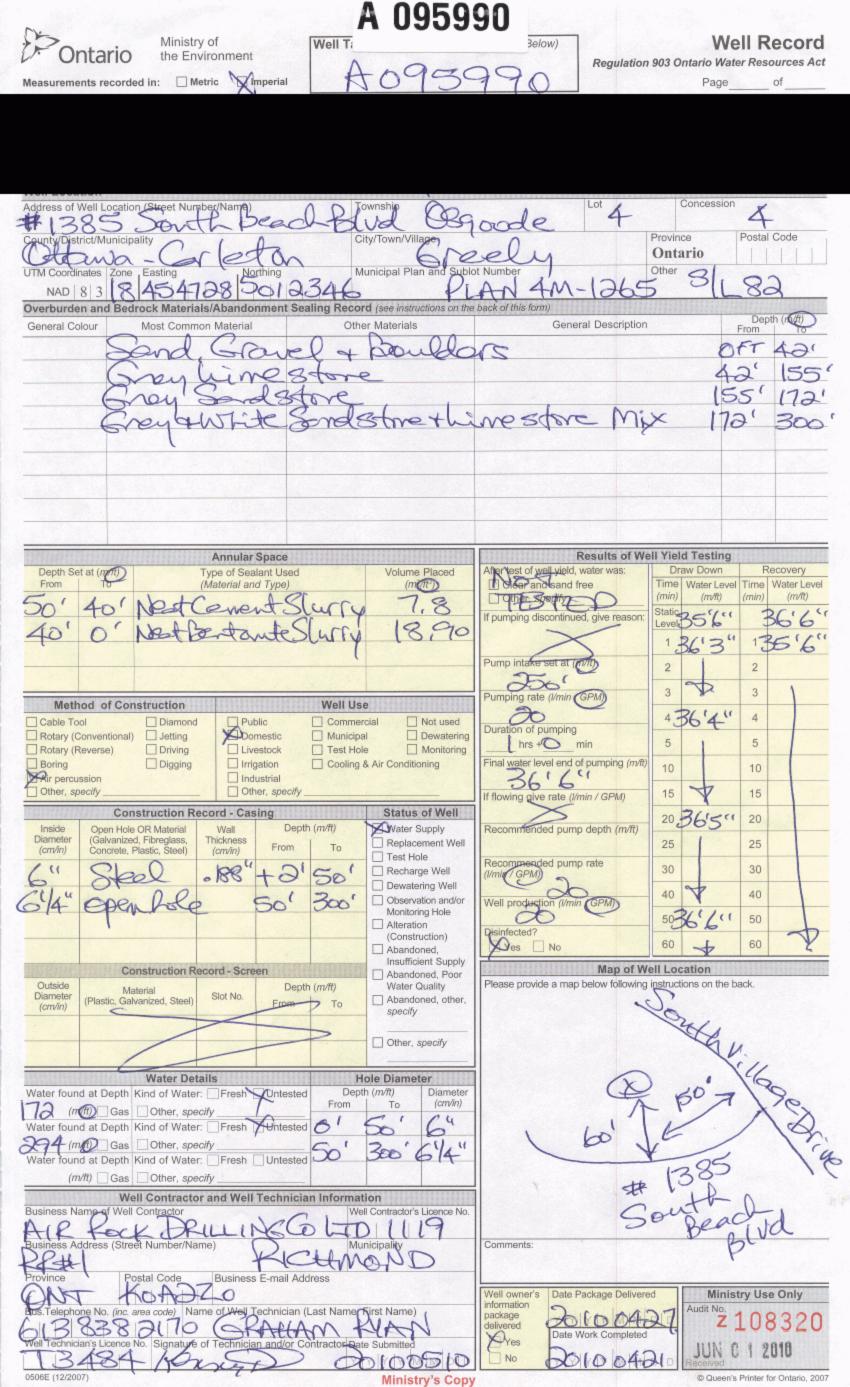
6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	Lot	C	oncession	Township			Count	y/District/Mun	upon request			
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095924 Well T Below) Well Record Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act Page of Measurements recorded in:
Metric Imperial Well Owner's Information E-mail Address Well Constructed Last Name / Organization First Nan NE Province by Well Owner DPM E Postal Code Telephone No. (inc. area code) Mailing er/Name reely 4PDA5 (0) NO Well Location Concess Lot Address of Well Location (Street Number/Name ud 35000 e 363 Dut Dar ł 0 County/District/Municipality Postal Code Province City/Town/Village 91 Ontario vae 5 ZI Other S Municipal Plan and Sublot Numbe Zone Eastin 80 LAN 5012313 4m. 1265 1845464 NAD 8 3 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m(t) General Description Most Common Material Other Materials General Colour From 45 b Soulders BI stavel + 5/2 145 MOS 10 011 215 0 Sandsto 5' 48' 30 Sendsta AU 10 Annular Space **Results of Well Yield Testing** After test of well yield, water was: Recovery Type of Sealant Used (Material and Type) Volume Placed Draw Down Depth Set at (n(/ft)) If pumping discontinued, give reason: Time Water Level Time Water Level (min) (m/ft) (m/ft) (min) 1.8 ever 44 Mad lun Static 13" 2.54 Nest Berton 29.4 un 1.35'8" Pump intake set at (n(ft)) 2 2 40' 34 Pumping rate (Vmin GPM) 3 2 3 44' Well Use Method of Construction Duration of pumping 4 448' Not used Commercial Cable Tool Diamond Public Municipal Rotary (Conventional) Jetting Domestic Dewatering 5 5 50 hrs + min Test Hole Rotary (Reverse) Driving Livestock Monitoring Final water level end of pumping (m/R) Boring Digging Irrigation Cooling & Air Conditioning 10 104 52'1" 52'5" Air percussion Industrial Other, specify Other, specifi 15 15 If flowing give rate (Vmin / GPM) 0 **Construction Record - Casing** Status of Well 52'2" 20 20 Water Supply Inside Diameter Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Wall Recommended pump depth (non) Recommendad Thickness Replacement Well 25 25 + From To (cm/in) (cm/in) Test Hole pump rate 2'4" 30 4 30 Recharge Well 188 12. (Vmin (GPM)) 54 20 20 Dewatering Well \$ 40 40 4 hil 54 301' Observation and/or Well production (Vmin CPM 251 Monitoring Hole n 50 5 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Water Quality Outside Depth (m/ft) Material Slot No. Diameter Abandoned, other, (Plastic, Galvanized, Steel) (cm/in) specify South Wilkge Drive Other, specify 210 Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Depth (m/ft) Diamete Untested From To (cm/in) 46 (mage Gas Other, specify #136 11 301 Water found at Depth Kind of Water: Fresh Dhtested South 95 (n Gas Other, specify Water found at Depth Kind of Water: Fresh Untested Beach, Blvd, (m/ft) Gas Other, specify Well Contractor and Well Technician Information ss Name of Well Contracto Well Contractor's Licence No. Municipality DRI Kec K Address (Street Number/Nan Comments: CHMON 4PI D Postal Code Business E-mail Address 0A220 Ministry Use Only Well owner's Date Package Delivered information ell Technician (Last Name, First Name) Audit No package 010040 z108300 RAHAM YAN 70 Date Work Compl Yes 6190315 20100510 No 4 Guten's Printer for Ohtano, 2007 0506E (12/2007 Ministry's Copy



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Well Location Township Province Postal Con Address of Well Location (Street Number/Name) Osgoode **1344 Barfield Street** Postal Code County/District/Municipality City/Town/Village Ontario Greely Initial Plan and Sublot Number Ottawa Carleton Other Northing 5011766 NAD 8 3 18 454720 <u>4M-351</u> <u>PT BLK 5 RP 4R054 a</u>7 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m) Other Materials **General Description** General Colour Most Common Material From ٥' Silty Sand 26 Sand, Gravel + Boublers 26 54 Grey + Brown 54 himestone 120 **Results of Well Yield Testing** Annular Space Type of Sealant Used After test of well vield, water was: Draw Down Recovery Depth Set at (m/st) Volume Placed Time (m³/ft³) Clear and sand free From То (Material and Type) Water Level Time WaterLevel Other, specify Not tested (min) (11/11) (min) (kvit) 7.8 60 (50 ' Neat cement Static If pumping discontinued, give reason a 41.7 50 7 07 Leve 25.2 Bentonite slumy 12.8 1 23.5 1 Pump intake set at (ma) 2 2 15.5 17.2 80 3 3 Pumping rate (I/min / PMD 20.2 10.3 Well Use Method of Construction 20 4 4 22.56.7 Cable Tool Diamond Public Commercial Not used Duration of pumping Domestic 🗌 Municipal Dewatering Rotary (Conventional) Jetting 5 5 1_hrs+__0_min 24 5.1 Driving Monitoring Rotary (Reverse) Livestock Test Hole Final water level end of pumping (nvfl) Boring Digging Irrigation Cooling & Air Conditioning 10 10 29.7 4 41.7 ** Air percussion 🗌 Industrial Other, specify 15 15 32.6 4 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 35 4 Water Supply Depth (mft) Recommended pump depth (m(ii)) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Wall Diamete (cm/in) Thickness (cm/n) Replacement Well 25 25 80' 36.8 â From То Test Hole Reconsended pump rate 30 30 Recharge Well 38.2 4 188 60 6 +2 Steel Dewatering Well 20 40 40 Observation and/or 40.2 4 60′ 515/16 **Open Hole** 120 Well production (I/min (GPM) Monitoring Hole 50 50 20 40.2 4 Alteration Disinfected Yes No (Construction) 60 60 41.7 4 Abandoned. Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Depth (m/ft) Material Diamete Slot No Abandoned, other, (Plastic, Galvanized, Steel) From То (cm/in) specify Other, specify # 1344 Barfield Street Hole Diameter Water Details Depth (m/ft) Diameter Water found at Depth Kind of Water: Sresh Suntested (cm/in) From To 65 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Vuntested 60 0 8 (m/ft) Gas Other, specify 120 51516 Water found at Depth Kind of Water: Fresh XUntested 60 (m/ft) Gas Other, specify Well Contractor and Well Technician Information mckeown Dr **Business Name of Well Contractor** Well Contractor's Licence No 1119 Air Rock Drilling Co. Ltd Business Address (Street Number/Name) 6659 Franktown Road, RR#1 lunicipality Richmond Comments: Postal Code Province Business E-mail Address Ministry Use Only ON KOA 2ZO air-rock@sympatico.ca Well owner's Date Package Delivered information Audit No Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 12010 M 11 17 z119920Graham, Ryan Date Work Completed Yes **2010 11** łø DEC 2 9 2010 29 T3484 6 Queen's Printer for Ontario, 2007 ŇΝο

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Well Record

Regulation 903 Ontario Water Resources Act Page of

Well Location Address of Well Location (Street Number/Name) Boullybud Lot Sub 10175 Concession 1333 Suth Blach County/District/Municipality 4 4 tawa Postal Code Province KOA 2WO Ontario Other UTM Coordinates Zone Easting Northing The RPlan NAD 8 3 / B 4 5 4 5 6 1 5 6 1 2 1 6 4 8 Pan 44 1265 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) ЧM Depth (m/it) General Description General Colour Most Common Material Other Materials From So-f7 \leq 0 3 Drown au 12.5 Sł 3.1 Pac Keck OULSE 2.5 14.6 25 stone **Results of Well Yield Testing** Annular Space After test of well yield, water was: Draw Down Recovery Type of Sealant Used Volume Placed Depth Set at (m/ft) Clear and sand free (m³/ft³) Time Water Level From То (Material and Type) Water Level Time (min) (m/ii) (min) (m∕īt) Other, specify 7 Baa 16.6 ciment grout Static If pumping discontinued, give reason: 24 3.32 Leve 1 1 25 3-26 Pump intake set at (m/ft) 2 2 27 3,2 <u>20</u> 3 3 Pumping rate (I/min / GPM) 22 Well Use Method of Construction 68 Duration of pumping 4 4 28 3. Cable Tool Diamond oliduc 📋 Commercial Not used Jetting Domestic 🗌 Municipal Dewatering Rotary (Conventional) 5 5 2.29 hrs + min Test Hole Rotary (Reverse) Driving Livestock Monitoring Final water level end of pumping (m/ft) 🗌 Boring Digging Irrigation 🔲 Cooling & Air Conditioning 3.30 10 10 .32 🔲 Industrial WOther, specify Air Rotary Air percussion 3.30 Other, specify 15 15 If flowing give rate (I/min / GPM) **Construction Record - Casing** Status of Well 3,31 20 20 Water Supply Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thicknes Depth (m/ft) Recommended pump depth (m/ft) Inside Diamete *(cm/in)* 3] Replacement Well 25 3. 25 20 From То (cm/in) Test Hole Recommended pump rate (//min / GPM) B Well production (//min / GPM) 30 32 30 3 16.6 48 Recharge Well 4. 15,55 Stee Dewatering Well 40 40 3,32 Observation and/or 16. b Open 25.6 <u>15.55</u> Hole Monitoring Hole 3.32 50 50 Alteration Disinfected? (Construction) 60 く 3 60 Yes 🗌 No Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back. NA Outside Depth (m/ft) Material Diamete (cm/in) Slot No Abandoned, other, (Plastic Gatvanized Steel) From To specify Ĉ Other, specify Hole Diameter Water Details Depth (m/ft) Diameter Water found at Depth Kind of Water: Fresh Wintested From (cm/in) Τc 24 (m/ft) Gas Other, specify found at Depth Kind of Water: Fresh Untested Wate (m/ft) Gas Other, specify Ы. 21.23 Water found at Depth Kind of Water: Fresh Untested wel 9 6.6 (m/ft) Gas Other, specify 15.55 Well Contractor and Well Technician Information Business Name of Well Contract Well Contractor's Licence No. 6) 141 2501 الى DULGO Xilling Comments: Nation 10nte Business E-mail Address NIA Ministry Use Only Well owner's Date Package Delivered DABC information Audit No of Well Technician (Last Name, First Name) package delivered z127020 ichael 1cl Date Work Completed Yes nd/or Contracto Submitted JAN 2 1 2011 **G**No 20101223 20101223

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Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act Metric Page of Measurements recorded in: Imperial Well Owner's Information THE Stand Address Last Name / Organization First Name Vell Constructed GORDON 1 N by Well Owner E Mailing Address (Street Number/Name) Province Postal Code e No. (inç. area code) K4M A 1 Well Location Address of Well Location (Street Number/Name) Township Concessio way ood -000 County/District/Municipality City/Town/Village Province Postal Code tawa Ontario 551 ee DV NAD 8 3 84552 Other UTM Northing Municipal Plan and Sublot Number 501 4 163 B Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (met) Most Common Material Other Materials General Colour General Description From CL 1 Drilled donnerd 0 13 Abon Tag A004862 - Audit 204877- Feb 17, 2004 WARS-Annular Space **Results of Well Yield Testing** Depth Set at (m/A After test of well yield, water was: Draw Down Recovery Type of Sealant Used Volume Placed (Material and Type) (m^3/ft^3) Clear and sand free Time Water Level То Time Water Level Other, specify (min) (m/ft) (m/ft) (min) 0 Plug 6 0 Static If pumping discontinued, give reason: 1 Pi(10 Level 0 1 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Method of Construction Well Use 4 4 Cable Tool Diamond Public Commercial Not used Duration of pump Domestic Rotary (Conventional) Jetting Municipal Dewatering 5 5 hrs + Monitoring Rotary (Reverse) Driving Test Hole Cooling & Air Conditioning Bong Final water level end of pumping (m/ft) Digging Irrigation 10 10 Air percussion Industrial Other, specify Other. specify 15 15 If flowing give rate (I/min / GRM) **Construction Record - Casing** Status of Well 20 20 Depth (m/lt) Oven Hole OR Material Water Supply Inside Wall Recommended pump depth (m/k) Thicknes (cm/in) e, Plastic, Steel) Diamete Replacement Well 25 25 (cm/in) From To Conci Test Hole Recommended pump rate (Vmin / GPM) 30 Recharge Well 30 Dewatering Well 40 40 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 50 Alteration ed? (Construction) 60 60 Abandoned, Ye No No Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Outside Please provide a map below following instructions on the back Depth (m/ft) Material (Plastic, Galvanized, Steel) Slo Diameter Abandoned, other, From To (cm/in) Enstructio (Mew Sund NON Water Details **Hole Diameter** Diameter (cm/in) Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested To (m/ft) Gas Other, specify · SKW Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Well Contractor's Licence No. usiness Name of Well Contractor ACK DK (Lu (Street Number/Name) P TD 111 ING 0 s Address (Str inicipality Comments 1#1 1CHMOND W#5-A004862 Business E-m Postal Code Address Ministry Use Only (bA) 0 Well owner's Package Delivered information Technician (Last Name, First Name) Audit No. package delivered YYYMMD 9939 soulniers Ke 70 Z Date Work Completed and/or Co Yes echnician 20110118 20110131 XNO 2007/13 0 00 Ministry's Copy

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	anktown Road, RR		Richmond
Province	Postal Code	Business E-mail Address	
ON	K0A 220	air-rock@s	mpatico.ca
Bus.Telephone	No. (inc. area code) Nam	e of Well Technician (Last Na	ame, First Name)
6138382		Hogan, Dan	
Well Technician's	Licence No. Signature o	f Technician and/or Contracto	Date Submitted
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Measurements recorded	in:

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Tag#: A128050

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Well Record

Regulation 903 Ontario Water Resources Act ___of___ Page_

	ocation (Street Numbe			Township Osaoode	Lot 4	Conces	sion			
County/District/M		<u> </u>		City/Town/Village	in the second	Province Ontario	Postal Code			
Ottawa-(Carleton Zone , Easting	, North	ning	Greely Municipal Pan and Sul	lot Number	Other				
NAD 8 3	19 154932	5(12327	4M-1265		S/L 12				
Overburden and General Colour	d Bedrock Materials Most Common			ecord (see instructions on to Other Materials	he back of this form) General Descripti	on	Depth (matt) From To			
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Brown		Sand Sand & G	Favol				27 38			
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Depth Set at (m	🕖 Ту	pe of Seala	nt Used	Volume Placed	After test of well yield, water was:	Draw Dow	n Recovery			
From T 48 38	 Neat ceme 		, yp c)	9.36	Other, specify Not teste	(min) (m/f	t) (min) (m/ft)			
38 ' 0'	Bentonite s		n an	16.8	If pumping discontinued, give reaso	n. Level 3				
			n an an Anna a Anna an Anna an			1 38:				
					Pump intake set at (m@ 160 ⁽	2 42.				
Method o	of Construction		Well	Use	Pumping rate (I/min / PM)	3 45	~			
Cable Tool	Diamond	Public	c 🗌 Con	nmercial 🔲 Not used	Duration of pumping	4 48;				
Rotary (Conver					brst min	5 50.4	• 5 <u>33.8</u>			
Boring				ling & Air Conditioning	Final water level end of pumping (m	10 57-	7 10 31.			
Air percussion		Indus	r, specify		If flowing give rate (I/min / GPM)	15 62,0	A 15			
	Construction Reco			Status of Well		20 65,	२ 20			
Diameter (Gal		Wall hickness	Depth (<i>m/ft</i>) From To	Water Supply	Recommended pump depth (m/k	25 66.				
		(cm/in)	+2' 48'	Test Hole	Recommended pump rate	30 68.				
6 ^{(/} Stee				Dewatering Well	20	40 71.0				
6 ¹¹ Ope	n Hole		48 / 181 /	wonitoning Hole	Well production (I/min / A	50 73.				
				Alteration (Construction)	Disinfected?	60 74.				
(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.				Abandoned, Insufficient Supply		Well Location				
Outside	Construction Reco		n Depth (<i>m/ft</i>)	Abandoned, Poor- Water Quality	Please provide a map below follow		the back.			
Diameter (cm/in) (Plas	tic, Galvanized, Steel)	Slot No.	From To	Abandoned, other specify			10			
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	Water Detail	and the second se		Hole Diameter			Ale ger			
<u> </u>	Depth Kind of Water:	X	Untested Fro	Depth (<i>m/ft</i>) Diamete m To (<i>cm/in</i>)	$ / \rangle$		15,109-5			
Water found at D	Gas Gotter, specific Depth Kind of Water:		Untested	0 ⁽ 181 ['] 6 ^{''}		X	N' A'			
	Gas Other, specif				the last		~~~			
	Gas Other, specif		JUNICOLOU		6 7	1				
	Well Contractor		echnician Info			135'				
Business Name o				Well Contractor's Licence N		4 10-				
Business Address	illing Co. Ltd. s (Street Number/Name	э)		Municipality Richmond	Comments:					
	Postal Code		E-mail Address	IXIGHHUHU	3/4 HP - 15 GPM SET	@ 100.				
Province ON	MOA OTO		air-rock@sym	patico.ca	Well owner's Date Package Deliv	And a second sec	linistry Use Only			
Bus.Telephone No	o. (inc. area code) Nam		chnician (Last Na	me, First Name)	package		[∞] × 144600			
6138382170 Well Technician's L	icence No. Signature of	Purcell, S	Shannon and/or Contracto	r Date Submitted	Date Work Comple	. <u>.</u> .	. 8 0049			
T2122	Ko	ng	\sum	YYYYMMD		MPD D Rell				
0506E (2007/12)	© Queen's Printer for Ontario	n 2007		Ministry's Co						

		vironment	Imperial	Well Ta	g No. (Place Sticker an A119641		on 903 C	We Intario Wat Page_	er Res	of
Well Owner's	s Information									
. First Name		ast Name /			· ·····	E-mail Address				Constructed
Mailing Address	(Street Number/Na		illati		ing Inc. Municipality	Province Postal Coc	e	Telephone N	*	II Owner
P.O. Box		nej			Kanata	Ontario K2K 1X	E E	613 839		
Well Location				I						
	Location (Street Nu	mber/Name)	<u></u>	٦	Township	Lot		Concession		
6786 Hira					Osgoode City/Town/Village	5	Provin	4	Postal	Code
County/District/N Ottawa Ca				, i	Greely		Ont			
UTM Coordinates		I No	orthing	N	Municipal Plan and Sublo	ot Number	Other		<u> </u>	
	1 8 45462		5011602	<u> </u>					104 Marca Served William	
			100000000000000000000000000000000000000		ord (see instructions on the				Dep	th (<i>m/ft</i>)
General Colour	Most Comr	non Material		Oth	ner Materials	General Descriptio	M1		From	To
Brown	Clay	<i>.</i>				Packed			0	2.43
Grey	Clay	r				Sticky			2.43	4.87
Grey	Sand	L		Bou10	lers	Loose			4.87	17.67
Grey		estone			and the second se			1	7.67	29.86
	LILING	Deone		2	R,					
	-									
	<i>(</i> 0)	Annular	STORE		Values Disead	Results of V After test of well yield, water was:		d Testing aw Down	R	ecovery
Depth Set at (r From	n/ft) To	Type of Sea (Material an			Volume Placed (m³/ft³)	I Clear and sand free	Time	Water Level		Water Level
19.50	0 Grouted	l Benton	nite Slu	irrv	.92m ³	Other, specify	(min) Static	(<i>m/ft</i>)	(min)	(m/ft)
19.30	0 010uceu	Dencon	ITC DIG	<u></u>	• > 2.11	If pumping discontinued, give reasor	Level	1.73		
							1	2.74	1	4.81
						Pump intake set at (m/ft)	2	2.70	2	3.11
						22.85	3			-
Method of	of Construction			Well Us	30	Pumping rate (I/min / GPM) 45.5		4.25		2.23
Cable Tool		. III		Comme	= 1	Duration of pumping	4	4.62	4	1.90
Rotary (Convie Rotary (Revers	Nuidinal) Usetting			Municip			5	4.88	5	1.83
Boring	Digging	🗌 Irrig	3	Cooling	& Air Conditioning	Final water level end of pumping (m/	7) 10	5.49	10	1.81
Other, specify		Ind	lustrial her, <i>specify</i>			6.31 If flowing give rate (I/min / GPM)	15	5.68	15	
	Construction R	ecord - Car	sina		Status of Well				20	
	en Hole OR Material	Wall	Depth	(<i>m/ft</i>)	X Water Supply	Recommended pump depth (m/ft)	20	5.78	20	
	Ivanized, Fibreglass, ncrete, Plastic, Steel)	Thickness (cm/in)	From	То	Replacement Well Test Hole	22.85	25		25	
15.06	Steel		1					5.82	25	· ·
	DLEET	1 <u>48</u>	+.45	19.50) 🗌 Recharge Well	Recommended pump rate (I/min / GPM)	30	5.82	30	۰
15.86		.48	+.45	19.50	Dewatering Well	(I/min / GPM) 45 • 5		5.85		
13.00		.48	+.45	19.50	Dewatering Well Dewatering Well Observation and/or Monitoring Hole	(I/min / GPM)	30	5.85 5.88	30 40	· · · · ·
00.01		.48	+.45	19.50	Dewatering Well Observation and/or Monitoring Hole Alteration	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected?	30 40 50	5.85 5.88 5.92	30 40 50	
00.01		.48	+.45	19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned,	(<i>l/min / GPM</i>) 45 . 5 Well production (<i>l/min / GPM</i>)	30	5.85 5.88	30 40	
	Construction R			19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside	Material		aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality 	(<i>l/min / GPM</i>) 45 . 5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside		ecord - Scre	ien		Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside Diameter (plac	Material	ecord - Scre	aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify 	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside Diameter (plac	Material	ecord - Scre	aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, 	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
Outside Diameter (plac	Material titc, Galvanized, Steel)	ecord - Scre Slot No.	aen Depth	(<i>m/ft</i>) To	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify 	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
Outside Diameter (cm/in) (Plas	Material	ecord - Scre Slot No.	een Depth From	(<i>m/ft</i>) To Pep	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify toth (m/ft) Diameter	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
Outside Diameter (<i>cm/in</i>) (Plas Water found at I 21.33 (<i>m/ft</i>)	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe	Slot No.	Depth From	(<i>m/ft</i>) To P Dep From	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
Outside Diameter (<i>cm/in</i>) (Plas Water found at I 21.33 (<i>m/ft</i>) Water found at I	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate	tails r: _ Fresh [coffy	Depth From	(<i>m/ft</i>) To Pep	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify toth (m/ft) Diameter	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 eation ions on the b	30 40 50 60 ack.	
Outside Diameter (cm/in) (Plass Water found at I 21.33 (m/ft) Water found at I 28.95 (m/ft)	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Gas Other, spe	tails r: Fresh [ecify	Depth From	(<i>m/ft</i>) To P Dep From	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 eation ions on the b	30 40 50 60 ack.	1RIAU
Outside Diameter (cm/in) (Plass Water found at I 21.33 (m/ft) Water found at I 28.95 (m/ft)	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Depth Kind of Wate	tails r: Fresh <i>scify</i> r: Fresh <i>scify</i>	Depth From	(<i>m/ft</i>) To H Dep From	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify Hole Diameter To (cm/in) 19.50 15.86	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 eation ions on the b	30 40 50 60 ack.	IRIPH IRIPH ARK
Outside Diameter (cm/in) (Plas Water found at I 21.33 (m/ft) Water found at I 28.95 (m/ft) Water found at I	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Depth Kind of Wate	tails r: Fresh [coify r: Fresh [coify	Depth From X Untested	(<i>m/ft</i>) To Pep From 0 19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify tole Diameter To (cm/in) 19.50 15.86 29.86 15.23	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 eation ions on the b	30 40 50 60 ack.	IRIPL IRIPL
Outside Diameter (cm/in) Water found at II 21.33 (m/ft) Water found at II 28.95 (m/ft) Water found at II 28.95 (m/ft) Water found at II Business Name of	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Well Contractor	tails slot No. tails r: Fresh ecify r: Fresh ecify r: Fresh ecify r: Fresh ecify r: Arresh	Depth From X Untested	(<i>m/ft</i>) To Pep From 0 19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify tole Diameter To (cm/in) 19.50 15.86 29.86 15.23 ttion ell Contractor's Licence No.	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 eation ions on the b	30 40 50 60 ack.	IRIPL ARK
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Outside Diameter (cm/in) (Plass Water found at II 21.33 (m/ft) Water found at II 28.95 (m/ft) Water found at II 28.95 (m/ft) Business Name of Capital W Business Address	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Well Contractor	tails slot No. tails r: Fresh [cify	Depth From X Untested	(<i>m/ft)</i> То Рер From 0 19.50 n Informa Иче 1 Мц	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify Other, specify Ile Diameter To (cm/in) 19.50 15.86 29.86 15.23 tion ell Contractor's Licence No. 5 5 8 unicipality	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 sation ions on the b	30 40 50 60 ack.	1RIPH IREX
Outside Diameter (cm/in) (Plass) Water found at II 21.33 (m/ft) Water found at II 28.95 (m/ft) Water found at II 28.95 (m/ft) Water found at II 28.95 (m/ft) Business Name C Capital W	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Well Contractor Well Contractor Vater Supply	tails slot No. tails r: Fresh coify r: Fresh coify r: Fresh coify r: Fresh coify r: Tresh coify	Depth From X Untested	(<i>m/ft</i>) To Dep From 0 19.50 n Informa We 1 Ww 1 S	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify Other, specify Iole Diameter To (crn/in) 19.50 15.86 29.86 15.23 ttion ell Contractor's Licence No. 5 5 8	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? Yes No Map of N Please provide a map below followin	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 sation ions on the b	30 40 50 60 ack.	TRIPL ARK
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Outside Diameter Diameter (Plas Water found at I 21.33 (m/ft) Water found at I 28.95 (m/ft) Water found at I (m/ft) Water found at I (m/ft) Business Name of Capital W Business Address Box 490 Province Ontario Bus.Telephone No 613 836 1	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe Depth Kind of Wate Gas Other, spe Gas Other, spe Well Contractor Well Contractor Vater Supp1y s (Street Number/Nater Postal Code K2\$ 1A6 D. (inc. area code) Nater 766	Example 2 Contract of the second - Screen Slot No.	Depth From Trom Untested Untested Untested Techniciar	n (m/ft) To Dep From 0 19.50 19.50 n Informa We 1 We 2 1 Soitalwa ast Name, ohen	□ Dewatering Well □ Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Abandoned, other, specify □ Other, specify □ Other, specify ■ Other, specify	(I/min / GPM) 45.5 Well production (I/min / GPM) Disinfected? X Yes No Map of V Please provide a map below followin X Yes Vell owner's information package delivered Date Work Complete	30 40 50 60 Vell Loc g instruct	5.85 5.88 5.92 5.95 sation ions on the b	30 40 50 60 ack.	only 1740
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	/linistry of he Environment	Tag#	: A12792	25 int Below)	Regulation	n 903 Ontario		Record
Measurements recorded in:	Metric Metric	A12/	920			Pa	ige	of
Well Owner's Information	on (*							
First Name	Last Name / Organizatio		5. <i>C</i> 2	E-mail Address				l Constructed Vell Owner
Mailing Address (Street Numb		Icrete Finishir Municipal		Province	Postal Code	Telepho	-	c. area code)
6789 Sunset Blvc		Gree	ely	ON	K4P 1	M6		
Well Location								
Address of Well Location (Stre 6828 McKeown E	,	Township	oode		Lot	Conces	sion	
County/District/Municipality	лис	City/Town			116-7	Province	Post	al Code
Ottawa-Carleton		Gree	Plan and Sublot			Ontario		
UTM Coordinates Zone Easti			0	t Number		Other		
NAD 8 3 18 45 Overburden and Bedrock M	4766 501161				<u></u>	Block 6		
	Common Material	Other Mater	1		al Description		De	epth (<i>m(ft</i>)
	Sand & Gravel	Q.	Boulders				0	57'
Grey	1 :						57 '	119
	Limestone	en en franke i sjolen e		 The second se Second second sec	- 1-1		119	123
Grey							123	140
Grey Grey Grey Grey Grey Grey Grey Grey	Limestone a			e di Merina di Serie	e de la contra de la La contra de la contr	a se se propositor e construire. A construire de la constru	123	140
happan.		$/ \rightarrow 0$	$\left(\right)$	AB		~ Fr	1=7	-**
MAGKAVEL	-SEAM-	KEEP	TUINH	r ribere				<u></u>
	Annular Space		<u> </u>	R After test of well yield, w		Draw Dow	and the second se	Recovery
Depth Set at (<i>m/fb)</i> From To	Type of Sealant Used (Material and Type)	Volu	ume Placed	Clear and sand fro	ee		evel Time	
64 ' 54' Nea	t cement). 9	Other, specify		(min) (m/f	· · · ·	
54 (0 (Ben	tonite slurry	33	3.6	If pumping discontinued	d, give reason:	Static Level 10.		17.9″
		an a		\sim	ana dalahiri	1 12.	1	11.8
				Pump intake set at (m	Ð	2 12.	1 2	10.4
				100 Pumping rate (I/min / G	<u>2010</u>	3 12.	7 3	10.4
Method of Construct		Well Use		20		4 13.		10.4
Cable Tool Di	amond Dublic	Commercial	Not used Dewatering	Duration of pumping			94132947 (2004) <u>- 1</u>	
Rotary (Reverse)	iving Livestock	Test Hole	Monitoring	<u>1 hrs + 0</u> m		5 13.	3 5	10.4
Boring Di	gging Irrigation	Cooling & Air Con	ditioning	Final water level end of	pumping (m/n)	10 14.0	10	10.4
Other, specify	Other, specify			If flowing give rate (I/m	in / GPM)	15 14.1	3	10.4
	ion Record - Casing		us of Well	×	-	20 15	7 20	10.4
Inside Open Hole OR Mat Diameter (Galvanized, Fibreg	lass, Thickness		er Supply lacement Well	Recommended pump	depth (n(At)	25 18.		10.4
(cm/ib) Concrete, Plastic, Š	iteel) (cm/(0) From		t Hole	100 Recommended pump				
61/4." Steel	.188 // +2	104 =	harge Well /atering Well	(I/min / GPM) 20		30 16.1	30	10.4
$\leq \pi/\beta''$ Open Hole	64 (140′ 🗍 Obs	ervation and/or	Well production (I/min)	(GEM)	40 17	• 40	10.4
		Alte	11	20 * Disjnfected?	1	50 17,	4 50	10.4
			nstruction) ndoned.			60 17.	60	10.4
Construct	tion Record - Screen	이 가지 않은 것이 있는 것이 집중 것	fficient Supply ndoned, Poor		Map of We	ell Location		
Outside Material	Slot No. Dept	h (<i>m/ft)</i> Wat	er Quality	Please provide a map b				1
(Plastic, Galvanized,	Steel) Slot No. From	To Data Spec	ndoned, other,		0	Da M	CKE	DWN
					#680	+0 M	VÉ	
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Ontario	Ministry of the Environment
Measurements recorded in	_ `~

Tag#: A128140 Wel

nt Below)

A128140

Well Record Regulation 903 Ontario Water Resources Act

Page___ of

Well Ow First Name	NUMBER OF STREET	nformation	Last Name / Organiz	ation	n an	E-mail Address				7	Constructed	
			138434	1 Ontario	an in phan in a star the second statistics of	avanach Const	an galland an			by Well Own		
-	-	reet Number/Na		n Selenger og difteringer Serenger og difteringer	Municipality Ashton	Province On	Postal Code			NO. (<i>inc.</i>	area code)	
		cation (Street Nu	(mbor/blame)		Township		Lot		Concession			
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County/Dis		nicipality Carleton		C	City/Town/Village		n an	Provir Ont		Posta	I Code	
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			Annular Space]	esults of We		d Testing		1	
Depth Se From	et at (<i>mt</i> t	٩	Type of Sealant Use (Material and Type)	d	Volume Placed	After test of well yield, v	water was:	Dr	aw Down Water Level		ecovery Water Level	
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60 /	0	Bentor	nite slurry		25.2	If pumping discontinued	d, give reason:	Static Level	34.2		85.4″	
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000120000000000000000000000000000000000	and the state of the second	Construction		Well Us		Pumping rate (I/min C	em)	3	47.2	3	55.4	
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			ecord - Casing		Status of Well			20	71.8	20	34.2	
Inside Diameter (cm/m)	(Galvar	lole OR Material nized, Fibreglass, te, Plastic, Steel)	Wall De Thickness (cm/in) From	epth (<i>m/ft</i>)	Water Supply	Recommended pump	H- \	25	74.8	25	34.2	
614	Stee		.188 +2	1 70 ⁽	Test Hole Recharge Well	Recommended pump	rate	30	78.7	30	34.2	
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0 0					Monitoring Hole	12 Disinfected?		50	82.3	50	34.2	
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Outsida	1	Construction R	l f	- 1. (- (5)	Abandoned, Poor	Please provide a map t	Map of We			ack		
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		\rightarrow										
					Other, <i>specify</i>					-	-	
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		as Other, <i>spe</i> th Kind of Wate	r: Fresh Untes	ed 70	300 6/8"		-14th, 1	١	F			
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	ame of W	ell Contractor		Wei	I Contractor's Licence No.		Driv	7				
Air Ro Business Ac	ddress (S	ling Co. Ltd. treet Number/Na wn Road, R	ine),		1119 hicipality Richmond	Comments:	- Driv	21			<u> </u>	
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ON		K0A 220		ock@sympa			ckage Delivered		Minist	ry Use	Only	
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0506E (2007/1	//++ 2) © Qu	een's Printer for Ont	ario, 2007	Marka e Y	Y Y Y M M D D Ministry's Copy	Y Y	Y-IY-IM-TM E	D	Received			

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Well Owner's I		1							
First Name		e / Organization	rio Limited (c/o Ca	E-mail Address					Constructed ell Owner
	reet Number/Name)		Municipality Ashton	Province	Postal Code	1	Telephone N		
Well Location				<u> </u>					
	cation (Street Number/Nan I Prescott Road nicipality	ne)	Township Osgoode City/Town/Village		Lot P/L 2		Concession 4S	Posta	I Code
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General Colour	Most Common Mater		Other Materials	1	al Description			Dep From	oth (<i>m/ft</i>)
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Grey & Whit	e Lim	iestone c	+ Sands-		an a	yaan da ye	tergan area	189	200
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			ander son de la constant de la constant Statution	X		1	42.8	⊴ :1 ⊚	79
				Pump intake set at (m2 190	Ð	2	48	2	71.7
Method of	Construction	Wel	I Use	Pumping rate (I/min / 🧲	EMP	3	52.3	3	65.4
			nmercial 🔲 Not used nicipal 🗌 Dewatering	12 Duration of pumping		4	55.9	4	59.8
Rotary (Conventio	Driving 🗍	Livestock	t Hole	1 hrs + 0 mi		5	59.2	5	55.1
Boring		Irrigation Coc Industrial	bling & Air Conditioning	Final water level end of p	oumping (m/ft)	10	71.1	10	40.1
Other, specify		Other, <i>specify</i>		If flowing give rate (I/min	n / GPM)	15	77.2	15	36
	Construction Record - C	Depth (mm)	Status of Well	Recommended pump of	lepth (natt)	20	83.2	20	34.3
Diameter (Galvai	nized, Fibreglass, Thickness te, Plastic, Steel) (cm@)	s	Replacement Well	190 /		25	86	25	34.3
G'A" Stee	er .188	" +2 ['] 58	Recharge Well	Recommended pump r	ate	30	88.9	30	34.3
	n Hole	58 / 200	Dewatering Well	12 Well production (//min &	<u>a</u>	40	92	40	34.3
<u>-010</u>			Monitoring Hole	12		50	95.5	50	34.3
	<u>, , , , , , , , , , , , , , , , , , , </u>		(Construction)	Disinfected?	in an	60	9 8.5	60	34.34
	Construction Record - So	creen	Insufficient Supply		Map of We		ation		
Outside Diameter (<i>cm/in</i>) (Plastic,	Material Galvanized, Steel) Slot No.	Depth (<i>m/ft</i>) From To	Water Quality	Please provide a map be OCTODO OCO (TREE LI		2001			
· · · · ·	-	2	Other, <i>specify</i>	(TREE LI	NE)	~	#10	34	D.
Water found at Dep	Water Details		Hole Diameter Depth (<i>m/ft</i>) Diameter	GOK-	AKM	τ	# 10 0 PP4	LD SC	ott

Water Details	Hole Diameter	
Water found at Depth Kind of Water: Fresh Untested	Depth (<i>m/ft)</i> Diameter From To (<i>cm/in</i>)	
158 (m 🕀 🗌 Gas 🗌 Other, specify	From To (cm/in)	
Water found at Depth Kind of Water: Fresh SUntested	0 ' 58' 93/4"	
189 (m(ft) Gas Other, specify	and the providence of the second s	
Water found at Depth Kind of Water: Fresh Untested	58 200 6/8	
(<i>m/ft</i>) Gas Other, <i>specify</i>		
Well Contractor and Well Technician	n Information	
Business Name of Well Contractor	Well Contractor's Licence No.	
Air Rock Drilling Co. Ltd.	survey and 1118:	
Business Address (Street Number/Name)	Municipality	Comments
6659 Franktown Road, RR#1	RIGIMOIU	3/4 H
Province Postal Code Business E-mail Addr		
ON KQA 220 A A A A A A A A A A A A A A A A A	@sympatico.ca	Well owner
Bus.Telephone No. (inc. area code) Name of Well Technician (La	ast Name, First Name)	information package
6138382170 Graham, Ryan	andra Balanda (m. 1997) 1999 - Maria Maria, ang kang sa kang sa 1999 - Sa kang	delivered
Well Technician's Licence No. Signature of Technician and/or Cor	tractor Date Submitted	XYes
T3484 Kours		No No
0506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy	

ROAD . 3KW ϕ Mackeown Drive

3/4 HP	- 10 GPM SET AT 19	OFT TESTWELL #2
formation	Date Package Delivered	

Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** <u>(https://covid-19.ontario.ca/book-vaccine/)</u>.</u>

♥-♥-

(/page/government-ontario)

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Menu

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7206661
Well Audit Number: *Z155129*Well Tag Number: *A128106 This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

6808 HIRAM DRIVE

23/22, 9:13 AM Township	Map: Well records ontario.ca OSGOODE TOWNSHIP
Lot	005
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON

City/Town/Village	GREELV
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454576.00 Northing: 5011680.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
BRWN	CLAY			0 ft	5 ft
GREY	CLAY			5 ft	18 ft
	SAND	GRVL	BLDR	18 ft	52 ft
GREY	LMSN			52 ft	135 ft
GREY	LMSN	SNDS		135 ft	153 ft
GREY	LMSN	SNDS		153 ft	160 ft

Annular Space/Abandonment Sealing Record

_ •	Depth To	Type of Sealant Used (Material and Type)	Volume Placed	
50 ft	0 ft	BENTONITE SLURRY		
60 ft	50 ft	CONCRETE		

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	_ •
6.25 inch	STEEL	-2 ft	60 ft
6 inch	OPEN HOLE	60 ft	160 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason			
Pump intake set at	150 ft		
Pumping Rate	20 GPM		
Duration of Pumping	1 h:0 m		
Final water level	36.6 ft		
If flowing give rate			
Recommended pump depth	100 ft		
Recommended pump rate	20 GPM		
Well Production			
Disinfected?	Y		

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	18.3 ft		
1	22.5 ft	1	27.6 ft
2	24.5 ft	2	26.6 ft
3	25.7 ft	3	26 ft

2/23/22	2, 9:13 AM	Мар:	Well records ontario.ca	
Z	1	26.6 ft	4	25.4 ft
5	5	27.4 ft	5	24.8 ft
1	10	29.5 ft	10	21.8 ft
1	15	31.1 ft	15	19 ft
2	20	32.7 ft	20	18.3 ft
2	25	33 ft	25	18.3 ft
3	30	33.3 ft	30	18.3 ft
2	40	34.5 ft	40	18.3 ft
2	45		45	
5	50	35.7 ft	50	18.3 ft
6	50	36.6 ft	60	18.3 ft

Water Details

Water Found at Depth	Kind
153 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	60 ft	9.75 inch
60 ft	160 ft	6 inch

Audit Number: Z155129

Date Well Completed: June 24, 2013

Date Well Record Received by MOE: August 19, 2013

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

Updated: October 18, 2021 Published: March 20, 2014

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Ontario Ministry of the Environment	Tag#: A13530	Print Below)	V Ilation 903 Ontario W	lell Recor
Measurements recorded in: 🗌 Metric 💢 Impe	rial		Pag	e of
Well Owner's Information				
First Name Last Name / Orga	nization 341 Ontario Limited (clo C	E-mail Address		Well Constructe by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal	Code Telephone	No. (inc. area code)
9094 Cavanagh Road	Ashton	<u>On</u> K	(0A 1B0	
Well Location Address of Well Location (Street Number/Name)	Township	Lot	Concessi	าก
1240 Old Prescott Road	•		P/L 4 49	
County/District/Municipality	City/Town/Village		Province	Postal Code
Ottawa-Carleton	g Greely Municipal Plan and Sub	lot Number	Ontario	
	n + 24 dz		TESTM	C14.#A
Overburden and Bedrock Materials/Abandonme		e back of this form)	IED: VV	
General Colour Most Common Material	Other Materials	General Desci	ription	Depth (m4) From To
Sand				0 20
Sand & (Gravelou 🕂 🛛 Boulder	. 5 terreta de la terreta de la companya de	nanda altanesa (basendinas patrices par	20 48
Grey Limestor	Ne se marine a succession de la companya de la comp	and a second		48 69
Grey Limestor	le europen d'acteuropen en petromen d'acteur	i	<u>en an airt Ange</u> lanta yean Alta i	69 [′] 139 [′]
Grey & White Sandstor	14 Augusta and a second second	e en neer en natur wite en de propositionen pro-		139 147 1
Grey & White Sandstor	ne operation of the second second			147 170
Grey & White Sandstor	1e ⁰⁰⁰⁰⁰⁰⁰ - Constant Constant	and the providence of the prov	Ren greggering and server .	170 180
TEST	WELL#4			
Annular Space		Results	of Well Yield Testing	l
Depth Set at (m/0) Type of Sealant U	Jsed Volume Placed	After test of well yield, water was	: Draw Down	Recovery
From To (Material and Typ 58 48 Neat cement		Clear and sand free	Time Water Lev (min) (m/ft)	el Time Water Leve (<i>min</i>) (<i>m/ft</i>)
		If pumping discontinued, give rea		2 14.8
48 0 Bentonite slurry	29.4	$\ \times$	1 12.	
		Pump intake set at (mft)	2 13.	
		I Construction of the second sec	이 이 아이는 아이는 것이 아이는 가 나는 것이 아이는	£
a second a first	and the second			
Method of Construction	Well Use	Pumping rate (I/min / CPM)	3 13.	
Cable Tool Diamond Public	Commercial Not used		3 13. 4 13.	
Cable Tool Diamond Public Rotary (Conventional) Jetting Diamond Rotary (Reverse) Driving Livestock	Commercial Not used Municipal Dewatering Test Hole Monitoring	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping 1 hrs + 0 min	4 13. 5 13.	5 4 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Conventional Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping <u>1</u> hrs + <u>0</u> min Final water level end of pumping	4 13. 5 13.	5 4 12 7 5 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Comestic Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping 1 hrs + 0 min	(m/ft) 10 14.	5 4 12 7 5 12 4 10 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>)	(<i>m/fl</i>) 10 14. 20 14	5 4 12 7 5 12 4 10 12 8 15 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock Boring Digging Irrigation Air percussion Industrial Other, specify Other, specify Other, specify Wall Inside Open Hole OR Material Wall	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping rate (I/min / Pumping 20)</i> Duration of pumping thrs + min Final water level end of pumping t4.8 ^{-/} If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i>)	(<i>m/ft</i>) 4 13. 5 13. (<i>m/ft</i>) 10 14. 15 14. 20 14.	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in)		Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i>) Recommended pump rate	(m/ft) (m/ft) (m/ft) 10 14. 15 14. 20 14. 25 14. 25 14.	5 4 12 7 5 12 4 10 12 9 15 12 3 20 12 3 25 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in)	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping rate (I/min / Pumping 20)</i> Duration of pumping <u>hrs + 0</u> min Final water level end of pumping <u>14.8'</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> <u>3/4+HP</u>	(m/ft) (m/ft) (m/ft) 10 14 15 14 20 14 25 14 30 14 15	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 25 12 3 30 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Chalt Steel .188	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Municipal Dewatering Status of Well Municipal Dewatering Water Supply Municipal Status of Well Replacement Well Recharge Well Dewatering Well State Supply Dewatering Well Number Supply	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> <u>14.8</u> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>)	(m/ft) (m/ft) (m/ft) 10 14. 15 14. 20 14. 25 14. 25 14.	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 25 12 3 30 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Construction Construction Record - Casing		Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>n</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>r</i> <u>3/4+H</u> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20	(m/ft) (m/ft) (m/ft) 10 14 15 14 20 14 25 14 30 14 15	5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 40 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Construction Construction Record - Casing	Commercial Not used Municipal Dewatering Cooling & Air Conditioning Coolin	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> <u>14.8</u> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>)	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 25 14 30 14 40 14	5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 40 12 9 50 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness 6 1/8* Open Hole 188* 6 1/8* Open Hole 6	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Mecify Depth (m/ft) om To +2 58 180 180 Cobservation and/or Monitoring Hole Alteration (Construction)	Pumping rate (<i>I/min / CPM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / CPM</i>) 20 Well production (<i>I/min / CPM</i>) 20 Map of the term of the term of the term of the term of term	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 14 14 20 14 14 14 14 14 14 14 14 14 14	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 25 12 3 30 12 3 40 12 3 50 12 3 60 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Depth (m/ft) Water Supply om To +2 ' 58' Servation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Depth (m/ft) Abandoned, Insufficient Supply	Pumping rate (I/min / Pumping rate (I/min / Pumping 20 Duration of pumping 1 hrs + min Final water level end of pumping 14.8 ' If flowing give rate (I/min / GPM) Recommended pump depth (m (3/4++) Recommended pump rate (I/min / GPM) 20 Well production (I/mie/TGPM) 20 Well production (I/mie/TGPM) 20 Well production (I/mie/TGPM)	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 14 14 20 14 14 14 14 14 14 14 14 14 14	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 25 12 3 30 12 3 40 12 3 50 12 3 60 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Concrete, Plastic, Steel Thickness Construction Record - Screen Gutside Outside Material Sigt Mo Sigt Mo	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning Decify Depth (m/ft) ○ Depth (m/ft) ○ Monitoring □ To +2 < 58	Pumping rate (<i>I/min / CPM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / CPM</i>) 20 Well production (<i>I/min / CPM</i>) 20 Map of the term of the term of the term of the term of term	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 14 14 20 14 14 14 14 14 14 14 14 14 14	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 25 12 3 30 12 3 40 12 3 50 12 3 60 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Decify Depth (m/ft) Status of Well Pecify Status of Well Depth (m/ft) Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Depth (m/ft) om To	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Cooling & Air Conditioning □ Depth (m/ft) ○ Matter Supply □ Replacement Well +2 58 180 ○ Desth (m/ft) ○ Destration (Construction) △ Abandoned, Poor Water Quality	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Uameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 6'4" Steel .188 6'5'8 Open Hole Store Construction Record - Screen Outside Material Slot No. Plastic, Galvanized, Steel) Slot No. Fr Water Details	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) ○ Water Supply □ momercial ○ Cooling & Air Conditioning □ Depth (m/ft) ○ Replacement Well □ Depth (m/ft) ○ Deservation and/or Monitoring Hole □ Alteration ○ Coostruction) □ Abandoned, Insufficient Supply □ Abandoned, Insufficient Supply □ Depth (m/ft) □ Abandoned, Opor Water Quality □ momercial □ Other, specify □ Other, specify □ Other, specify	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Open Hole OR Material Diameter (Carvin) Open Hole OR Material Construction Record - Casing Inside Open Hole OR Material Diameter (Carvin) Concrete, Plastic, Steel) Construction Record - Screen Outside Material Diameter (crnvin) (Plastic, Galvanized, Steel) Slot No. Fr Water found at Depth Kind of Water:	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) ○ Water Supply □ momercial ○ Cooling & Air Conditioning □ Depth (m/ft) ○ Replacement Well □ Depth (m/ft) ○ Deservation and/or Monitoring Hole □ Alteration ○ Coostruction) □ Abandoned, Insufficient Supply □ Abandoned, Insufficient Supply □ Depth (m/ft) □ Abandoned, Opor Water Quality □ momercial □ Other, specify □ Other, specify □ Other, specify	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Uameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 6'4" Steel .188 6'5'8 Open Hole Store Construction Record - Screen Outside Material Slot No. Plastic, Galvanized, Steel) Slot No. Fr Water Details	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 ' 58 ' 180 ' Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ Other, specify □ Other, specify	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool □ Diamond □ Public Rotary (Conventional) □ Jetting □ Diomostic Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Stare Construction Record - Casing Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (Cm/in) Construction Record - Screen Outside Material Slot No. Diameter (Plastic, Galvanized, Steel) Slot No. (cm/in) (Plastic, Galvanized, Steel) Slot No. Vater found at Depth Kind of Water: Fresh Gg (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Water 147 (mft) Gas Other, specify Unit	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Status of Well □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, other, specify □ Other, specify □ Other, specify □ Depth (m/ft) 0 Diameter From To ested 0 0 56 13/4 "	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Calvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Construction Record - Screen Outside Material Slot No. Diameter (Plastic, Galvanized, Steel) Slot No. (cm/in) Plastic, Galvanized, Steel) Slot No. Vater Details Water found at Depth Kind of Water: Fresh Uater found at Depth Kind of Water: Fresh Untert 147 (mft) Gas Other, specify Untert 147 Gas Other, specify Untert Inster 147 Gas Other, specify Untert Inster	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning Deeth (m/ft) □ Replacement Well □ □ Test Hole +2 58 180 □ 180 □ Deservation and/or Monitoring Hole ↓ ↓ Abandoned, Insufficient Supply □ □ □ Abandoned, Insufficient Supply □ □ ↓ ∆bandoned, other, specify □ □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 15 14 20 14 10 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 15 14 15 15 15 15 15 15 15 15 15 15	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirwing □ Livestock □ Boring □ Digging □ Industrial □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Industrial Construction Record - Casing Inside Open Hole OR Material Wall Thickness □ Concrete, Plastic, Steel) Thickness Fr □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 7 ¹ /8 ¹ Gas Other, specify	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Devatering Well □ □ <td< td=""><td>Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<>	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Public Rotary (Conventional) Jetting Consensition Rotary (Reverse) Driving Livestock Boring Digging Inrigation Air percussion Industrial Other, specify Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/n) Fr 6 1/8 ** Open Hole OR Material Wall Fr 6 1/8 ** Open Hole OR Material Wall Fr 6 1/8 ** Open Hole OR Material Wall Fr 6 1/8 ** Open Hole OR Material Wall Fr 6 1/8 ** Open Hole OR Material Wall Fr 6 1/8 ** Open Hole OR Material Slot No. Fr 6 1/8 ** Open Hole Slot No. Fr 9 0utside Material Slot No. Fr 9 0utside Material Slot No. Fr 9 0meter (Plastic, Galvanized, Steel) Slot No. Fr 9 0meter (Plastic, Galvanized, Steel) Slot No. Fr </td <td>□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Devatering Well □ □ <td< td=""><td>Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<></td>	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Devatering Well □ □ <td< td=""><td>Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<>	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Public Rotary (Conventional) Jetting Construction Boring Driving Livestock Other, specify Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 61/2* Open Hole OR Material Wall Livestock Thickness Fr 61/2* Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 61/2* Open Hole Steel Steel 0utside Material Slot No. Fr 0utside Material Slot No. Fr 9 (m/tt) Gas Other, specify Water found at Depth 69 (m/tt) Gas Other, specify Water found at Depth Kind of Water: Fresh Winter 147 (mft) Gas Other, specify Water found at Depth Kind of Water: Fresh Winter <t< td=""><td>□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ 180 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ <td< td=""><td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<></td></t<>	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ 180 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ <td< td=""><td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<>	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirwing □ Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing Industrial □ Air percussion □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing Nall □ Inside Open Hole OR Material Wall □ Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness □ Construction Record - Screen Outside .188 □ Δ Δ Δ Open Hole .188 □ Δ Δ Δ □ Plastic, Galvanized, Steel) Slot No. □ Construction Record - Screen Outside Material □ Diameter (Plastic, Galvanized, Steel) Slot No. □ Construction Record - Screen Outside Slot No. □ Diameter (Plastic, Galvanized, Steel) Slot No. □ Contractor Record - Screen □ Outside Slot No. □ Contractor Slot No. F	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Status of Well □ Depth (m/ft) □ Test Hole +2 ' 58' 180' □ □ Dewatering Well □ Dewatering Well □ Dewatering Hole □ Alteration (Construction) □ □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ □ Other, specify □ □ □ Depth (m/ft) □ Diameter ested □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>rr</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 50 14. 60 14. 50 14. 50 14. 50 14. 5	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Diogsing □ Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, Specify □ Other, specify □ Other, specify □ State Open Hole OR Material Wall Thickness □ Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Thickness (cm/in) Fr □ Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Fr □ Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Fr □ Galvanized, Steel) Open Hole 188 188 188 □ Galvanized, Steel) Slot No. Fr Fr 188 199 □ Outside Material Plastic, Galvanized, Steel) Slot No. Fr □ Galvanized, Steel) Slot No. Fr Unit 199 □ Galvanized, Steel) Slot No. Fr Unit 147 (mfg) □ Galvanized, Steel) Un	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 ' 58' 180' □ □ Dewatering Well □ Dewatering Well □ Dewatering Well □ Deservation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 50 14. 60 14. 50 14. 50 14. 50 14. 5	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Diagoing □ Boring □ Digging □ Irrigation □ Air percussion □ Digging □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing □ Inside Open Hole OR Material Wall □ Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness Construction Record - Screen Outside .188 □ Outside Material Slot No. □ Diameter (Plastic, Galvanized, Steel) Slot No. (cm/in) IPastic, Galvanized, Steel) Slot No. □ Outside Material Slot No. □ Diameter (Plastic, Galvanized, Steel) Slot No. □ (m/t) Gas Other, specify Water found at Depth Kind of Water: Fresh Unit □ 147 (m/t) Gas Other, specify Water found at Depth Kind of Water: Fresh Wint □ 147 (m/t) Gas Other, specify Water found at Depth Kind of	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 ' 58' 180' □ □ Dewatering Well □ Dewatering Well □ Dewatering Well □ Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ Other, specify □ Other, specify □ Depth (m/ft) Diameter From To □ Other, specify □ Other, specify □ 0 □ 58' □ 58' □ <td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>rr</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo</td> <td>4 13. 5 13. 10 14. 15 14. 20 14. 20 14. 30 14. 40 14. 50 14. 60 14. 7 14. 7<</td> <td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td>	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>rr</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	4 13. 5 13. 10 14. 15 14. 20 14. 20 14. 30 14. 40 14. 50 14. 60 14. 7 14. 7<	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) Jetting □ Livestock □ Boring □ Digging □ Iniung □ Iniung □ Air percussion □ Dinving □ Iniuside □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing □ Null □ Iniuside □ Other, specify □ Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing □ Other, specify □ Other, specify □ Gas Concrete, Plastic, Steel) Wall Thickness □ Liside Open Hole □ Other, specify □ Other, specify □ Construction Record - Screen Outside Material Slot No. □ Construction Record - Screen Outside Material Slot No. Fr □ Construction Record - Screen Outside Material Slot No. Fr □ Construction Record - Screen Outside Outside Slot No. Fr □ Construction Record - Screen Outside Outside Outher, specify Unter	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ 0 □ Depth (m/ft) □ Iaft 180 □ 180 □ 180 □ 180 <td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / GPM</i>) Recommended pump rate (<i>I/min / GPM</i>) 20 Well production (<i>I/mie / GPM</i>) 20 20 Well production (<i>I/mie / GPM</i>) 20 20 20 20 20 20 20 20 20 20</td> <td>4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 7 100 FT </td> <td>5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 50 12 9 60 12' Dack.</td>	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / GPM</i>) Recommended pump rate (<i>I/min / GPM</i>) 20 Well production (<i>I/mie / GPM</i>) 20 20 Well production (<i>I/mie / GPM</i>) 20 20 20 20 20 20 20 20 20 20	4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 7 100 FT	5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 50 12 9 60 12' Dack.
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirving □ Livestoch □ Boring □ Digging □ Irrigation □ Industrial □ Other, spc □ Other, specify □ Other, Spc □ Other, spc □ Other, spc □ State Open Hole OR Material Wall Wall □ Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Industrial Other, spc □ Construction Record - Screen Outside Inside □ Outside Material Slot No. Fr □ Construction Record - Screen Outside Material Slot No. □ Outside Material Slot No. Fr □ Convinin (Plastic, Galvanized, Steel) Slot No. Fr □ Outside Material Slot No. Fr <tr< td=""><td>□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ 0 □ Depth (m/ft) □ Iaft 180 □ 180 □ 180 □ 180<td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Delinformation package</td><td>4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4</td><td>5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.</td></td></tr<>	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ 0 □ Depth (m/ft) □ Iaft 180 □ 180 □ 180 □ 180 <td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Delinformation package</td> <td>4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4</td> <td>5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.</td>	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Delinformation package	4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.

	_ Tag#: A1448	73	1	<i>۵</i>		
C. Ontario Ministry of the Environment	A144873	Print Below)	Regulatior	V 903 Ontario W		ecorc
Measurements recorded in:			-	Pag	e	of
Well Owner's Information						
First Name Last Name / Organization 1384341 Or	ntario Limited (c/o C	E-mail Address avanagh Const				Constructed
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephon	e No. (inc.	
9094 Cavanagh Road	Ashton	<u> </u>	KOA	ipy		
Well Location Address of Well Location (Street Number/Name) 1240 Old Prescott Road	Township		Lot	Concessi		
	Osgoode		P/L ·			Cada
County/District/Municipality Ottawa-Carleton	City/Town/Village Greely			Province Ontario	Postal	Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Subl	lot Number		Other		
NAD 8 3 18 454433 501201 Overburden and Bedrock Materials/Abandonment Sealin		e back of this form)		TEST W	ELL #	3
General Colour Most Common Material	Other Materials	1	ral Description		Depl From	
Brown Sand		N			01	44'
Sand & Gravel	+ Boulder				44	481
Grey Limestone					48 -	127-
Grey Limestone	· · · · · · ·				127	170-
Grey Limestone 4		one Mix			170-	
Grey Limestone •	L Sander	tone Mix			236 -	250 -
	•					
Annular Space Depth Set at (m(ft)) Type of Sealant Used	Values Disert	After test of well yield, v		Il Yield Testing Draw Down		covery
From To (Material and Type)	Volume Placed (m ³ (ft ³))	Clear and sand fr	ee	Time Water Lev	vel Time \	
58 48 Neat cement		Other, specify		(min) (mft) Static 15	(min)	(m(tt)) 57-7 %
48 0 Bentonite slurry	37.8			Level 22.		49.E
		Pump intake set at (m				41.8
		240 <	9	E		
Method of Construction V	Vell Use	Pumping rate (I/min /	SPM)	3 31.		37.5
	Commercial INot used Municipal Dewatering	Duration of pumping		4 34.		34.2
Rotary (Reverse) Driving Livestock	Test Hole Donitoring	1hrs + 0 m		5 35.	8 5	31.8
Air percussion	Cooling & Air Conditioning	Final water level end of	pumping (m/ft)	10 40.	5 10	24.5
Other, specify Other, specify		If flowing give rate (I/m	in / GPM)	15 45.	4 15	18.2
Construction Record - Casing Inside Open Hole OR Material Wall Depth (m)	t) XWater Supply	Recommended pump	depth (mft)	20 47.	3 20	15.6
Diameter (Galvanized, Fibreglass, (<i>cm/in</i>) Concrete, Plastic, Steel) (<i>cm/in</i>) From	To Replacement Well	150		25 48.	7 25	15.6
614" Steel .188" +2"	58 🖌 🗌 Recharge Well	Recommended pump	rate	30 50.	1 30	15.8
	SO Observation and/or	14 Well production (I/min ,	600	40 52.	7 40	15.8
	Monitoring Hole	14	GF MIJ	50 55.	3 50	15.6
	(Construction)	Disinfected?		60 57.	7 60	15.6
Construction Record - Screen	Insufficient Supply		Map of We			
Outside Material Diameter (Plattine Columniand Stoot) Slot No.		Please provide a map b			back.	
(<i>cm/in</i>) (<i>Plastic, saverized, steel</i>) From	To Abandoned, other, specify	89	VOU.	1		
	Other, specify	Please provide a map b		1 4		
	Outor, opcony	W Dego		151	240	OLD TE RD
Water Details	Hole Diameter		4	4 PR	ESCO	TRD
	Depth (m/) Diameter From To (cm/)		· akm	7		
Vater found at Depth Kind of Water: Fresh VUntested	0' 58 934	TH+'		$\left(\right)$		
(mft) Gas Other, specify Vater found at Depth Kind of Water: Fresh Untested	58 250 6/8"	1545	· Str.			
(<i>m/ft</i>)		10 A				
Well Contractor and Well Technician Inf Business Name of Well Contractor				I KOWN	t generation a	
Air Rock Drilling Co. Ltd.	Well Contractor's Licence No.		MCK	EOWN	$\sum_{i=1}^{n} e_{i}$	
Busipess Address (Street Nember/Name)-1	Municipality	Comments:				
Province Postal Code Business E-mail Address	, , , , , , , , , , , , , , , , , , ,	1 HP - 10 gpr	n @ 150'			
Province Postal Code Business E-mail Address ON KDA 220 air-rock@	sympatico.ca	Well owner's Date Pac	kage Delivered	Minis	try Use C	Dnly
us.Telephone No. <i>(inc. area code)</i> Name of Well Technician (Last N 1813838211701 1 1 Grant, Andrew	lame, First Name)	information package	JA3 MICBO	Audit No.		
Vell.Technician's Licence No. Signature of Technician and/or Contrac	tor Date Subinitied	Date Wo	rk Completed		155	TAQ
- Cercy	YYYYMMDDD	Νο	Y M M D	D ReOGT	10 20	113
506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy				06 10	1.5

		nvironment		Tag#: A1448 A144822	rint Below)	Regulatio		io Water R	Record
	s recorded in:	Metric Ximperia	I				<u> </u>	Page	of
First Name	's Information	Last Name / Organiz	ation		E-mail Addres	s		- We	II Constructed
			Bore Inc.	desides a second second second second second second				by \	Well Owner
-	s (Street Number/Na Power Road	ime)		Municipality Gloucester	Province	Postal Code		none No. (in	nc. area code)
Well Locatio]			i t i 'w'	<u>-1-1</u>		
	Il Location (Street Nu	imber/Name)		Township		Lot		ession A	
County/District	Hiram Drive			Osgoode City/Town/Village		E/L	Province		tal Code
Ottav	/a-Carleton			Greelv			Ontario		
	es Zone Easting	and the second		Municipal Plan and Subl	ot Number		Other		
NAD 8	1 0 VA 1 1 1 1990 0 1		1739 Sealing Rec	4m-351 ord (see instructions on the	e back of this form)		<u>P/L 6</u>		
General Colou	r Most Com	mon Material	01	ther Materials	Ge	neral Description	ו	D From	epth (<i>m/ft)</i> To
		Sand		jan serien en et et til Maria			unanan jeren zalak jer	0 /	10'
Grey	ala antigitation and anna ana	Clay		A -Gravel	- secological en al conserva e parte a			10	<u>(</u> 21
- 7	ante de la contra da Mercana da Arra. Altra da Mercana da Arra da Arr	Gravel	4	Boulder	el la prese a sub-receipare en		-gazardan	21	' 60 '
Grey	en sempletiken plaanse o	Limestone	atta anna an	en seren en	an a tha an	erenteren etterforen gab		60	
Grey	er égyenginninger meh	Limestone	en ja maantiise aan joop tiisen aantiise						1. 83 1
Grey		Limestone	en terretaria de la composición de la c			generation officiality	genergen ster om en er		. 94
Grey	ar gun Bareletinge, wire	Limestone	States and see			Den sezere estépantelet	garderer je erer	94	101
						đ			
		Annular Space	•			Results of W	ell Yield Tes	ting	T
Depth Set at From	(<i>m(fi</i>) To	Type of Sealant Us (Material and Type)		Volume Placed	After test of well yie		Time Wate		Recovery Water Level
	······	ement			Other, specify		(min) (n	n/ft) (min,	
56 (0' Bentor	nite slurry		29.4	If pumping discontin	nued, give reason:	Static Level	8.91	11'
		ang	and an	in all and the second in the second secon All second se	X		1	10.9	8.9
		· · · · · · · · · · · · · · · · · · ·	·····		Pump intake set at	(mkt)	2	10.9 2	8.9
					90 Pumping rate (I/mir	(CDM)	3	10.9 3	8.9
Method Cable Tool	of Construction	J Public	Well U		20	(متعليهات ١٠)		10.9 4	8.9
Rotary (Conv	entional)	Domestic	🛄 Municip	bal Dewatering	Duration of pumpir	•		den de la	
Rotary (Rever Boring	rse) Driving Digging	Livestock	Cooling	ole Monitoring & Air Conditioning	Final water level end	-			8.9
Air percussion		Industrial			11			11 10	8.9
	Construction R		<i>ny</i>	Status of Well	If flowing give rate	(I/min / GPM)	15	11 15	8.9
	pen Hole OR Material	Wall D	epth (<i>mft</i>)	Water Supply	Recommended put	mp depth (mt)	20	11 20	8.9
	alvanized, Fibreglass, oncrete, Plastic, Steel)	Thickness (cm/in) From	То	Replacement Well Test Hole	80'		25	1 25	8.9
614" 5	iteel	188 +2	66	Recharge Well	Recommended put (I/min / GPM)	mp rate	30	11 30	8.9
1." 0)pen Hole	66	101	Dewatering Well Observation and/or	20 Well production (I/n		40	40	8.9
				Monitoring Hole	20+		50	50	8.9
				(Construction)	Disinfected?		60	1 60	8.9
	Construction Re	ecord - Screen	<u></u>	Abandoned, Insufficient Supply		Map. of W/	ell Location		0.0
Outside Diameter	Mąterial	1	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a ma	p below following	instructions on	the back.	
(Cm/in) (Pla	stic, Galvanized, Steel)	From	То	Abandoned, other, <i>specify</i>		334 MANUER REIUER			
		The second second			1 26	B° C.			
in the second second			and the second second	Other, <i>specify</i>	2	M. VER	Friday		
	Water Det			lole Diameter	the	Rt/ A	150		
	Depth Kind of Water	X		th (<i>m/ft)</i> Diameter To (<i>cm/in</i>)		11	Ċ		
	Gas Other, <i>spei</i> Depth Kind of Water					1.44	VA.		
83 (m/ft)	Gas Other, spec	cify		66 93/4"		1.44			
CONT 1	Depth Kind of Water		ed 6(<u>101 6''</u>					
	Gas Other, spec	cify r and Well Technic				<u>\ \</u>	O - A	-N	
	of Well Contractor	and wen rechfil	and the second s	Il Contractor's Licence No.	PAN	RKWAY	Korl		
the second s	Drilling Co. Ltd.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1119		· · ·		-	<u></u>
0059 Fran	s (Street Number/Nar iktown Road, RH	ne) (#1	Mu	nicipality Richmond	Comments: 1/2 HP - 10	GPM - SET	m on ET	. 	
rovince	Postal Code	Business E-mail A			114 FIF - 10	arm-ari	wy JU F I		
	KOA 270		ock@symp		Well owner's Date	Package Delivered	2014/05/07/05/07/05/07/05	inistry Us	e Only
818888011	n I I I I	ne of Well Technician Purcell, Shar	ነግለግ			2013 0 5			5176
/ell Technician's L	icence No. Signature	of Technician and/or	Contractor Dat	e Submitted 0.8, 30	Date Date	Work Completed		- L U .	
14164	© Queen's Printer for Onta	rad	1	Y Y M M D D Ministry's Copy	□ No			<u>)CT 1 (</u>	2012
(10D7/49) /	us (Woop's Printer for Onto	ma 110076							

Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** <u>(https://covid-19.ontario.ca/book-vaccine/)</u>.</u>

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Menu

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7228021Well Audit Number: *Z166988*Well Tag Number: *A128102This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

6823 HIRAM DRIVE

Township

OSGOODE TOWNSHIP

Lot

Concession

County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GREELY
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454579.00 Northing: 5011728.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
	SAND	GRVL	BLDR	0 ft	52 ft
GREY	LMSN			52 ft	87 ft
GREY	LMSN			87 ft	135 ft
GREY	SNDS			135 ft	155 ft
GREY	SNDS				162 ft

Annular Space/Abandonment Sealing Record

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

48 ft 0 ft BENTONITE SLURRY 58 ft 48 ft NEAT CEMENT

Method of Construction & Well Use

Method of Construction Well Use

Air Percussion

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	
6.25 inch	STEEL	-2 ft	58 ft
5.9375 inch	OPEN HOLE	58 ft	162 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason				
Pump intake set at	150 ft			
Pumping Rate	5 GPM			
Duration of Pumping	1 h:0 m			
Final water level	114.5 ft			
If flowing give rate				
Recommended pump depth	140 ft			
Recommended pump rate	5 GPM			
Well Production				
Disinfected?	Y			

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	15.5 ft		
1	19.417 ft	1	96.583 ft
2	28.5 ft	2	79.25 ft
3	33.167 ft	3	72.167 ft
4	36.417 ft	4	69.167 ft
5	40.583 ft	5	66.417 ft

Map: Well records | ontario.ca

10	55.333 ft	10	50.667 ft
15	63.667 ft	15	36.333 ft
20	71.583 ft	20	23.167 ft
25	78.5 ft	25	15.5 ft
30	87.25 ft	30	15.5 ft
40	94.5 ft	40	15.5 ft
45		45	
50	103.583 ft	50	15.5 ft
60	114.5 ft	60	15.5 ft

Water Details

Water Found at Depth	Kind
155 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	58 ft	9.75 inch
58 ft	162 ft	5.9375 inch

Date Well Completed: August 13, 2014

Date Well Record Received by MOE: September 22, 2014

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

> Updated: October 18, 2021 Published: March 20, 2014

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Ontario Ministry of the Environment	₩ Tag#: A1448	Int Delow)	N n 903 Ontario W		ecord
Measurements recorded in: Metric Mimperial			Page	e	of
Well Owner's Information ' First Name Last Name / Organiza	tion	E-mail Address			
	Ontario Limited (c/o Ca			Well C 🗌 🗍	onstructed I Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal Code		No. (inc. e	area code)
9094 Cavanagh Road	Ashton		<u>180 </u>		
Address of Well Location (Street Number/Name)	Township	Lot	Concessio	on	
1240 Old Prescott Road	Osgoode	P/L 4		Dt-1	0
County/District/Municipality	City/Town/Village		Province Ontario	Postal	Lode
UTM Cooldinates Zone Leasting Northing	Municipal Play and Subl	ot Number	Other		
NAD 8 3 18 455162 5012 Overburden and Bedrock Materials/Abandonment	266	- hand a faile from t	TEST WE	LL # 5	L
General Colour Most Common Material	Other Materials	General Description	<u>ו</u>		n (m(<u>t</u> t))
				From	10
Sand	d Sand	<u></u>		1	30
Gravel	A Sand			30	58
		<u> </u>	<u>ale antiper da cara a cara a cara a</u>	58	141
Grey	9 Grey Sandste	····.		141	158
Sandstone	<u></u>	er en	<u>ening di Midro ang b</u>	158 (291
Grey Sandstone	17 - 18	en en filtere an en proposition de la p		291 ′	297
· · · ·					
Tactit	01 # 5				
Iest W					
Annular Space Depth Set at (n(t) Type of Sealant Used	d Volume Placed	Results of Weil yield, water was:	ell Yield Testing	Consequences of the second second	covery
From To (Material and Type)		Clear and sand free	Time Water Lev	el Time V	Vater Level
132 122 Neat cement	9.36	Other, specify	(<i>min</i>) (<i>m</i> / <i>ft</i>) Static 33-	(min) 84	(m/ft)
122 ' 0 ' Bentonite slurry	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	If pumping discontinued, give reason:	Level		166
		$\parallel \chi$	1 42.7	in sector of	152.3
		Pump(intake set at (nf#t))	2 49.5	2	1453
		Pumping rate (Ilmin GPM)	3 55.2	3	139.5
Method of Construction	Well Use	12	4 60.8	4	1335
Rotary (Conventional) Jetting Domestic	Municipal Dewatering	Duration of pumping			
Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Test Hole Monitoring Cooling & Air Conditioning	hrs + min Final water level end of pumping (m@)			128.0
Air percussion		1975 - 1986 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -	89.3		104.7
Other, specify Other, specify Other, specify		If flowing give rate (Ilmin I GPM)	15 107.	3 15	85.8
Construction Record - Casing Inside Open Hole OR Material Wall De	pth (<i>m/ft</i>) X Water Supply	Recommended pump depth (mbft)	20 121.	8 20	70.9
Diameter (Galvanized, Fibreglass, Thickness (cmlin) Concrete, Plastic, Steel) (cmlin) From	To Replacement Well	250'	25 133.	3 25	59
711	Test Hole	Recommended pump rate	30 143	30	50
	LI Dewatering weil	12		o 40	
<u>6</u> Open Hole 132	297 Observation and/or Monitoring Hole	Well production (Ilmir GPM)	100.		38
	Alteration (Construction)	Disinfected?	102.	<u> </u>	33.8
	Abandoned, Insufficient Supply	Yes No	⁶⁰ 168	60	33.8
Construction Record - Screen	Abandoned, Poor	Map of W Please provide a map below following	ell Location	back	
Diameter (Plastic Calvanized Steel) Slot No.	pth (<i>m/ft</i>) Water Quality To Abandoned, other,				
(cm/in) (From	specify	rest		١	10
	Other, specify	(NOO)	150	妆	1240
		*5/ 0	AL	7 101	D
Water Details	Hole Diameter	Nº G	VII	-12	Woll
Water found at Depth Kind of Water: Fresh Untest	From To (cm/in)		OX XXX	$\leq p $	ESCO
Water found at Depth Kind of Water: Fresh Untest	ed 0 132 9 ³ /4"	La Trence Hi	×		ZOAD
(m/ft) Gas Other, specify		XXXX	.IKAY	V . 1	F~
Water found at Depth Kind of Water: Fresh Untest	ed 133 297 ′ 6"		γ		
(m/ft) Gas Other, specify		Test NOOD #5 G	4.		
Business Name of Well Contractor	Well Contractor's Licence No.		WIN-A.	VEL	
Air Rock Drilling Co. Ltd.	1119	INCLES	WNDRI	v-1	
Business Address (Street Number/Name) 6659 Franktown Road, RR#1	Municipality Richmond	o o minoritori	*	7.24.	
Province Postal Code Business E-mail A		1 HP - 10 GPM SET @:		NUTH?	>
ON KOA 2ZO air-ro	ck@sympatico.ca	Well owner's Date Package Delivere		stry Use	Only
Bus.Telephone No. (inc. area code) Name of Well Technician		package	Audit No.	070	0.4
6138382/170 Hanna, Jerem Well Technician's Licence No. Signature of Technician and/or	Contractor Date Submitted	Date Work Completed		.670	24
Well Technician's Licence No. Signature of Technician and Tor			D19 Received	<u>ncii 2</u>	9 2014
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Measurements rec Well Owner's Ir		tric An per	al					Page		of
First Name	and the second sec	t Name / Organ	ization Construct	ion 1td	E-mail Addr	ress	<u></u>	<u></u>		Constructe
Mailing Address (St	treet Numbrer/Name)			Municipality	Province	Postal Code		Telephone I	*	ell Owner area code
811 Kenn Well Location	edy Kood			Kemptville	ON	KOG	110			affermand data
	cation (Street Numbe	er/Name)		Township Osgoode		Lot P/L S		Concession 4	n n	9999999999 1
County/District/Mun			į	City/Town/Village			Provin	gete Tala	Postal	Code
Ottawa-C	arlefon	• • • • • • • • • • • • • • • • • • •		Greely			Onta			4 manufacture of
UTM Coordinates Z NAD 8 3	18 435080) Northing	2157	Municipal Plan and Subl 4M-351			Other Par	t Block	: 1	
Overburden and I	Bedrock Materials Most Common			ord (see instructions on the		General Description	Same (State		Dep	th (m Rt)
	WOSt Common	Clay		a Sand		deneral Description			From	55
Grey		Limestone		\\	· · ·			· · · · · · · · · · · · · · · · · · ·	55 ′	137 '
Grey		Limestone							137 •	170 1
Grey & White		Sandstone				*****			1701	194 1
Grey & White		Sandstone							194 '	200 '
			No. 941 74000 1000 10 10 10 10 10 10 10 10 10 10 1			* 4, 5, 5, 4, 4				
				·····						
		Annular Spac	a Waren er Wattere er tre			Results of We	all Yiald	d Testing		
Depth Set at (m	λ Τν	/pe of Sealant U	sed	Volume Placed	After test of well y	yield, water was:	Dra	aw Down		covery
B17 51	Neat cemi	laterial and Type ent	.	10.9	Other, spec	and free ify Not tester		Water Leve (m/ft)	(min)	Water Le (m/ft)
51 /	Bentonite	slurry		29:4		ntinued, give reason:	Static Level		2"	58:8
	1							20.4		
	an a		*****		<u> X</u>	1997///1991	1	1.1	1	
	un en en en la serie de la auxonometries de la serie d				Pump intake set	1997///1991	1	24,4	2	39
Method of C	Zonstruction		Well U	Se	Pump intake set	t at (m @)		24.4		39 34,
Cable Tool	Construction	Public	Well U	ercial 🗌 Not used	Pump intake set	t at (m G) min / GCAD	2	24,4 28.3 31.8	2	39 34. 30.
Cable Tool Rotary (Convention Rotary (Reverse)	Diamond nal) Jetting	Livestock	Comm Municip	ercial Not used pal Dewatering ole Monitoring	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs +	t at (m &) min / C @) ping Omin	2 3 4	24,4 28.3 31.8 34.5	2	39 34. 30. 27.
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion	Diamond nal)	Livestock	Commi Municij Test Ho Cooling	ercial 🔲 Not used pal 🗌 Dewatering	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs +	t at (m &) min / CCDD	2 3 4	24.4 28.3 31.6 34.5 43.8	2	39 34. 30. 27. 17.
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, <i>specify</i>	Diamond nal) Jetting Driving Digging	Comestic Livestock Irrigation Industrial Other, spi	Commi Municij Test Ho Cooling	ercial INot used pal Dewatering ole IMonitoring g & Air Conditioning	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Final watepleyed	t at (m G) min / C ping O min end of pumping (m/11)	2 3 4 5	24.4 28.3 31.6 34.5 43.8 49	2 3 5 10 15	39 34, 30 27, 17, 14
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, specify Inside Open H	Diamond nal) Jetting Driving Digging	Comestic Livestock Irrigation Industrial Other, spi	Commi Municij Test Ho Cooling	ercial Not used pal Dewatering ole Monitoring	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Finat watepleyel of 58.8 If flowing give rat	t at (m G) min / C ping O min end of pumping (m/11)	2 3 4 5 10	24.4 28.3 31.6 34.5 43.8 49 52.3	2 3 4 5 10	39 34. 30. 27. 17. 14 13.
Cable Tool Color Convention Convertion Conv	Diamond nal) Jetting Driving Digging Construction Reco Hole OR Material hized, Fibreglass, Th te, Plastic, Steel)	Comestic Livestock trigation other, spi ord - Casing Wall hickness (cm(n) Fre	Comm Municit Test He Cooling acify Depth (m	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well	Pump intake set 180 Pumping rate (# Duration of pum 1 hrs + Finat watepleyed of 58.8 If flowing give rat Recommended 1 140	t at (m G) min / C ping min end of pumping (m/ft) ite (l/min / GPM) pump depth (m C)	2 3 4 5 10 15	24.4 28.3 31.8 34.5 43.8 49 52.3 54.5	2 3 5 10 15	39 34. 30. 27. 17. 14 13.
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, specify Inside Inside Calvar Concre Concr	Diamond nal) Jetting Driving Digging Digging	Vall Wall hickness (Commu Municit Test He Cooling ecify Depth (m@) m To 2 61	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Status of Well Water Supply Replacement Well Test Hole Recharge Well	Pump intake set 180 Pumping rate (# Duration of pum 1 hrs + Finat watepleyed of 58.8 If flowing give rat Recommended 1 140	t at (m G) min / GCD ping Omin end of pumping (m/ft) te (Vmin / GPM)	2 3 4 5 10 15 20	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8	2 3 4 5 10 15 20	34.3 30.3 17.3 14 13.3 13.3
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Cair percussion Other, specify Inside Inside Concre Conc	Diamond nal) Jetting Driving Digging Construction Reco Hole OR Material hized, Fibreglass, Th te, Plastic, Steel) (Comestic Livestock trigation other, spi ord - Casing Wall hickness (cm(n) Fre	Commi Municit Test He Cooling acify Depth (m@) To 2.1 61.1	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Observation and/or	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Finat wateolevel of 58.8 If flowing give rat \$ Recommended 140 Recommended (//min / S ¹ /W)	t at (m min / C ping min end of pumping (m/fi) ite (l/min / GPM) pump depth (m pump rate	2 3 4 5 10 15 20 25	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8 55.8 56.9	2 3 4 5 10 15 20 25	39 34, 30, 27, 17, 14 13, 13, 13, 13,
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Cable Tool Rotary (Convention Rotary (Reverse) Boring Chirac specify Concer Conc	Diamond nal) Jetting Driving Digging Construction Reco Hole OR Material nized, Fibreglass, Th te, Plastic, Steel) Construction Reco Material Galvanized, Steel) Water Details Water Details Salvanized, Steel) Water Details Construction Reco Material Galvanized, Steel) Construction Reco Material Galvanized, Steel) Construction Reco Material Galvanized, Steel) Construction Reco Material Galvanized, Steel) Construction Reco Material Construction	S S Fresh F	Comm Municit Test He Cooling actify Depth (m 2 2 2 2 2 2 2 2 2 2 2 2 2	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify Other, specify Other, specify Contractor's Licence No. Hole Diameter oth (m/fi) Diameter (cm/in) 61' 9 ³ /4 ⁴ 1' 200' 5 ¹⁵ /15'	Pump intake set 180 Pumping rate (// Buration of pum 1 hrs + Final wateolevel of 58.8 If flowing give rat Recommended f 140 Recommended f (//min / G/ M/) Well production Disinfected? No Please provide a Please provide a Comments D information package L Well owner's D information package L Well owner's D	t at (mg) min / CD min end of pumping (m/fi) ate (l/min / GPM) pump depth (mg) pump rate (l/min CPM) o Map of We map below following C Map of We Map of W	2 3 4 5 10 15 20 25 30 40 50 60 60 60 60 60 60 60 11 140 F	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8 56.9 58 58.8 58.8 ation ons on the b	2 3 4. 5 10 15 20 25 30 40 50 60 25 30 40 50 60	39 34 30 27 17 13 13 13 13 13 13 13 13 13 13 13 13 0 2 2 2 2 2 2 4 2 4 3 13 13 13 13 13 13 13 13 13 13 13 13 1

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Measurements re			A177769		lingunation		Page_		of
Well Owner's	<u> </u>				3				
First Name	Last Name / Organiz			E-mail Address					Constructed
Mailing Address (Street Number/Name)	on Drim	ng Co. Ltd. Municipality	Province	Postal Code	-	Telephone N	· ·	II Owner area code)
-	iram Road		Greely	ON	K4P	1A2			
Well Location					llet		Concession		
	ocation (Street Number/Name)		Township Osgoode		PL	4	Concession Z	tS.	
County/District/M			City/Town/Village			Provin	се	Postal	
	-Carleton Zone, Easting , Northing		Greely Municipal Plan and Suble	ot Number		Onta Other	ario		
UTM Coordinates NAD 8 3		1876	Municipal Fian and Subi	or number		Other			
	Bedrock Materials/Abandonment		cord (see instructions on the	ə back of this form)					
General Colour	Most Common Material	0	Other Materials	Gene	ral Description	l		Dept From	h (<i>m#t)</i> To
	Sand	9	Clay					0	28
	Sand & Gr	avel	°≁ Boulder	5				28 (54 '
Grey	Limestone							54 '	143
Grey	Sandstone							143 '	161
Grey	Sandstone							161′	232′
Grey	Sandstone							232′	247′
Grey	Sandstone	en de la composition		s chian				247	2601
	Annular Space				Results of We	ell Yiel	d Testing		
Depth Set at (mi From To	· · · · · · · · · · · · · · · · · · ·	ed	Volume Placed	After test of well yield,			aw Down Water Level	······	ecovery Water Level
64 ' 54			21.8	Other, specify	Not teste	d(min)	(m/ft)	(min)	(m/ft)
54 0	/ Bentonite slurry		16.8	If pumping discontinue	ed, give reason:	Static Level	26'6"		86.6 ″
	•					1	35.5	1	60
				Pump intake set at (r	nD	2	41.3	2	50.8
				Pumping rate (I/min /	COM	3	45.6	3	45.6
	f Construction	Well		20		4	49.2	4	42.2
Cable Tool	Diamond Diamond Diamond Upblic	Comr		Duration of pumping		5	52.1	5	39.5
Rotary (Reverse Boring		Cooli	Hole Monitoring	Final water level end o					
Air percussion	Industrial		ig a far conditioning	86'6"	r partiping (ring	10	61.3	10	33
Other, specify	Other, spec	ify		If flowing give rate (I/r	nin / GPM)	15	66.6	15	27
Inside Oper	Construction Record - Casing n Hole OR Material Wall D	epth (m##)	Status of Well	Recommended pump	depth (no.(ft))	20	69.9	20	26.6
	vanized, Fibreglass, Thickness crete, Plastic, Steel) (crrkin) Fron	ו To	Replacement Well	200'	1 1 4	25	72.3	25	28.6
614" St	eel .188 ^{°(} +:	2 64		Recommended pump	o rate	30	74.5	30	26.6
	cen Hole 64		Dewatering Well Observation and/or	001		40	78.7	40	26.6
			Monitoring Hole	Well production (I/min		50	82.7	50	26.6
			Alteration (Construction)	Disinfected?		60	86.6		26.6
			Abandoned, Insufficient Supply	Xes No			l	00	
Outside	Construction Record - Screen	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a map	Map of We below following			ck.	
Diameter (cm/in) (Plastic	Material D c, Galvanized , Steel) Slot No. Fron		Abandoned, other,		Ū				
			Other, <i>specify</i>						
	Water Details		Hole Diameter			Λ			
Water found at De	epth Kind of Water: Fresh		epth (m/ft) Diameter) j	KN			
	Gas Other, specify	From	To (cm/in)		Λ·.		7		
727	epth Kind of Water: Fresh Mintes	ted	0" 64 93/4"	()	VE	11		2	
	epth Kind of Water: Fresh Zontes	ted	84 260 6"	300	1.58'	41	_ / ż	20	
24-7 (m) (m)	Gas Other, specify				PORT	S.	- \	Aice Por	
Business Name of	Well Contractor and Well Techni		ation Vell Contractor's Licence No.		ti PAN	JUE		18,	
	rilling Co. Ltd.	v	1119		CP V			. 6	L
	(Street Number/Name), (town Road, RR#1	N	^{Aunicipality} Richmond	Comments:					
Province ON	Postal Code Business E-mail								~
Bus.Telephone No.	(<i>inc. area code</i>) Name of Well Technicia	n (Last Name		information package	ackage Delivered	- IF	Ministr Audit No.Z		only 2618
	Hanna, Jere		ate Spemitted 10 30	Date W	ork Completed		4		
T3638	7 Kenny	\geq		No	2 015 10 Y Y M M I	Sec. 1	Rodeived 1	72	015
)506E (2007/12) © (Queen's Printer for Ontario, 2007		Ministry's Copy	exercise the terror detailed with the Research of the Research of the Research of the Research of the Research	maren inconstant in the constant of the consta	I Li			



Address of Well Location (Street Number/Name)

6820 McKeown Drive

Tag#: A 229022 Print Below) A229022

> Township Osgoode

Lot

P/L 4

County/District/Municipality City/Town/Village Postal Code Province Ottawa-Carleton Greely Ontario UTM Coordinates Zone , Easting Northing Municipal Plan and Sublot Number Other 18 454770 5011553 4M-351 Part Block 6 nad | 8 | 3 | Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (mff) General Colour Most Common Material Other Materials General Description From 10 Clay 0 a Boulders 10 58 Gravel 58 (151/ Grey Limestone 209 151 Sandstone Grey Sandstone 209/ 213/ Grey 213 220Grey Sandstone **Results of Well Yield Testing** Annular Space Recovery Type of Sealant Used Draw Down Depth Set at (m/) From To After test of well vield, water was: Clear and sand free (min) Volume Placed (*m³/t*© 10.9 From Time Water Level Time Water Level (Material and Type) 587 (m/ft) 51.1 6B7 Neat cement (m/ft) (min) Static Level 235" If pumping discontinued, give reason: 18.8 581 σ Bentonite slurry 30 32.5 1 1 ntake set at (m@) 180 33.1 28.9 Pump inta 2 2 35.4 27.3 3 3 Pumping rate (1/min (CPM) Well Use Method of Construction 37 28.7 Duration of pumping 4 4 □ Not used Cable Tool []] Diamond Public Commercial Somestic 26.4 Rotary (Conventional) Jetting Municipal Dewatering 38.3 1 hrs + 5 5 Livestock Rotary (Reverse) Driving Test Hole Monitoring 41.5 25.2 Final water level end of pumping (m/ft) 51.1 % Boring Irrigation Cooling & Air Conditioning Digging 10 10 Air percussion 🗌 Industrial 43.1 24.2 Other, specify 15 15 If flowing give rate (I/min / GPM) 44.2 23.5 **Construction Record - Casing** Status of Well 20 20 Water Supply Depth (m@ Recommended pump depth (m. Inside Open Hole OR Material Wall 45.2 23.5 Diameter Thickness (Galvanized, Fibreglass, Concrete, Plastic, Steel) 25 25 14N То From (cm/10) (cm/®) Test Hole Recommended pump rate 46.1 23.5 Steel .188 +2 1 56/ 30 30 Recharge Well 5/4" (I/min / GBM) Dewatering Well 209 23.5 47.8 Well production (Vmin CPM) 66 ' 220 40 Open Hole 4Ĥ 6" Observation and/or 49.4 23.5 Monitorina Hole 50 50 Alteration ted? 23.5' 51.1 (Construction) 60 60 X No res Abandoned, Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Deoth (m/ft) Material Slot No. Diameter Abandoned, other, (Plastic Galvanized Steel) То (cm/in) specify # 6820 MCKEOWN DRIVE Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Kintested Depth (m/ft) Diameter 209 (m/t) Gas Other, specify From (cm/in) Allan 93/4 ⁄ 0 Water found at Depth Kind of Water: Fresh Statested 66 250' (m/🚺 🗍 Gas 🗌 Other, specify

 Ar3
 (m/10) □Gas
 Other, specify

 Water found at Depth
 Kind of Water:
 □ Fresh
 □ Untested

 66′ 220 6" (m/ft) Gas Other, specify 0.1KM Well Contractor and Well Technician Information Business Name of Well Contractor Air Rock Drilling Co. Ltd. Well Contractor's Licence No Busiess Area Stor Rubber Report Municleannond Comments: 1/2 HP - 10 GPM SET @ 140 FT Province Business E-mail Address air-rock@sympatico.ca Postal Code Well owner's information Date Package Delivered Ministry Use Only Audit No. 2262386 (inc. area code) Name of Well Technician (Last Name, First Name) Bus.Telephone No. (6138682170 package Hanna, Jeremy delivered Striggers Licence No. Signature of Technician and/or Contractor Date Submitted OB Yes Date Work Completed 18 28 OCT 1: 3: 2017 🛄 No RON Ò YYYYMMDD MIM D $\overline{\mathbb{Q}}$ Received © Queen's Printer for Ontario, 2014 0506E (2014/11) Ministry's Copy

Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** <u>(https://covid-19.ontario.ca/book-vaccine/)</u>.</u>

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Menu

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7310034Well Audit Number: *Z262192*Well Tag Number: *A229069This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

1314 SOUTH BEACH BLVD

2/23/22, 9:14 AM Township	Map: Well records ontario.ca
Lot	004
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GREELY
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454482.00 Northing: 5012159.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
	SAND	GRVL		0 ft	44 ft
GREY	LMSN			44 ft	95 ft
GREY	LMSN			95 ft	116 ft
GREY	LMSN			116 ft	134 ft
GREY	LMSN			134 ft	140 ft

Annular Space/Abandonment Sealing Record

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

40 ft	0 ft	BENTONITE SLURRY 21
50 ft	40 ft	NEAT CEMENT 12.5

Method of Construction & Well Use

Method of Construction Well Use

Air Percussion

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	
6.25 inch	STEEL	-2 ft	50 ft
6 inch	OPEN HOLE	50 ft	140 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason	
Pump intake set at	80 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	7.333 ft
If flowing give rate	
Recommended pump depth	80 ft
Recommended pump rate	20 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	level	Recovery Time(min)	Recovery Water level
SWL	6 ft		
1	7 ft	1	6 ft
2	7 ft	2	6 ft
3	7.1 ft	3	6 ft
4	7.1 ft	4	6 ft
5	7.1 ft	5	6 ft

Map: Well records | ontario.ca

10	7.1 ft	10	6 ft
15	7.1 ft	15	6 ft
20	7.1 ft	20	6 ft
25	7.1 ft	25	6 ft
30	7.1 ft	30	6 ft
40	7.1 ft	40	6 ft
45		45	
50	7.1 ft	50	6 ft
60	7.1 ft	60	6 ft

Water Details

Water Found at Depth	Kind
95 ft	Untested
116 ft	Untested
134 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	50 ft	9.75 inch
50 ft	140 ft	6 inch

Audit Number: Z262192

Date Well Completed: November 14, 2017

Date Well Record Received by MOE: April 24, 2018

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

> Updated: October 18, 2021 Published: March 20, 2014

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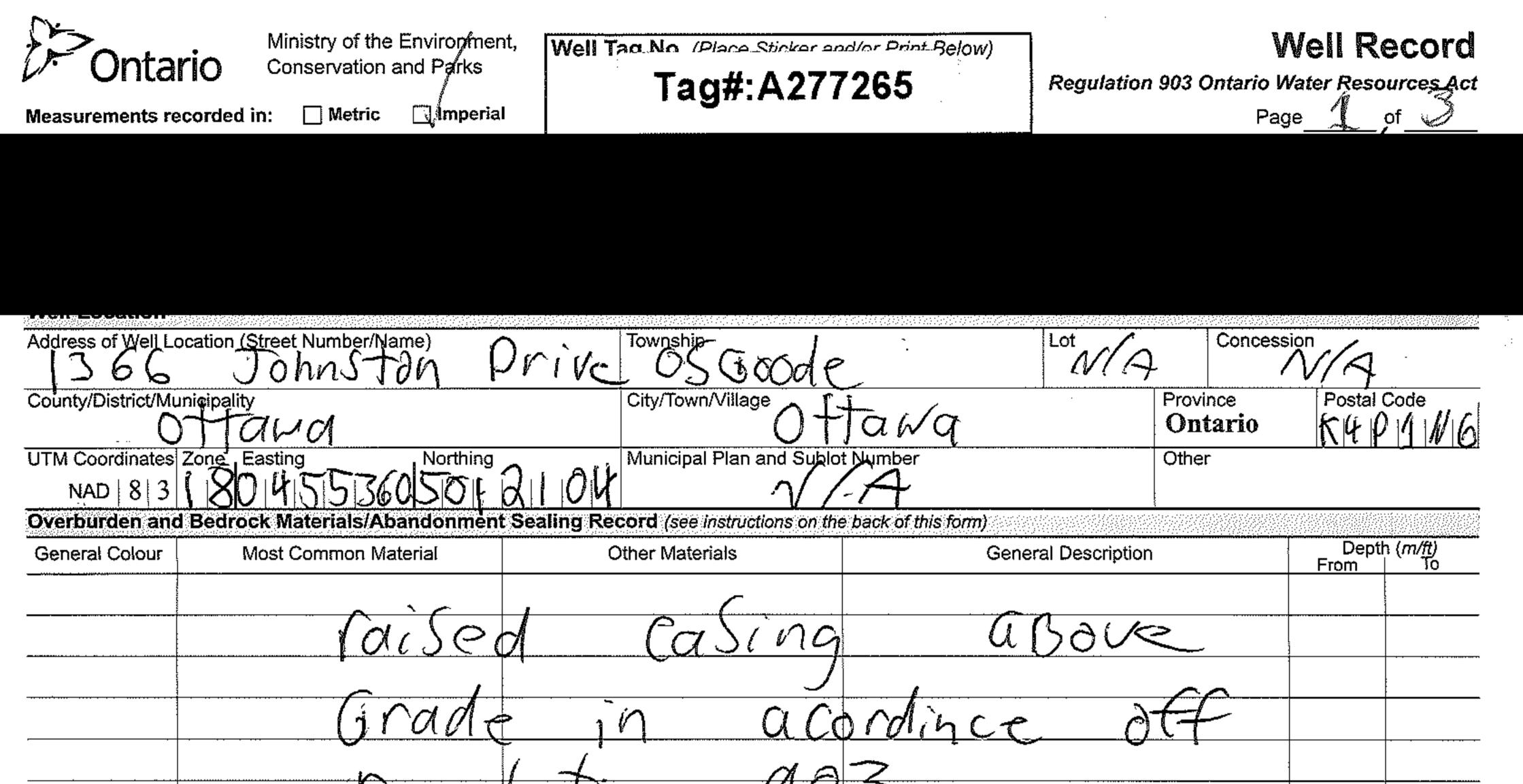
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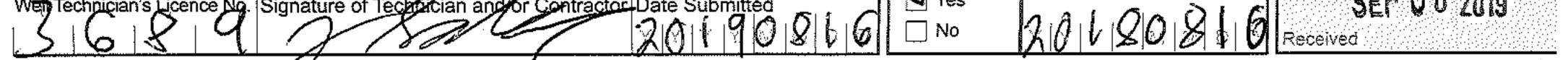
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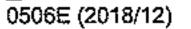
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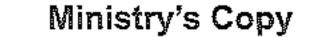


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	6	J								
	- Hew	e^{\parallel}		Las	Sa	mitized.	\rightarrow			
		Annular Sp				Results of We				
Depth Se From	et at (<i>m/ft</i>) To	Type of Sealan (Material and T			Volume Placed (m³/ft³)	After test of well yield, water was:	Time	aw Down Water Level		lecovery
	· · · · · · · · · · · · · · · · · · ·				(<i>in n</i>)	Other, specify	(min)		(min)	
				•		If pumping discontinued, give reason:	Static			
		F				n punipaig usconsided, give reason.	Level			
····		+					1		1	
		·				Pump intake set at (m/ft)	2		2	
			· · · · · · · · · · · · · · · · · · ·			Pumping rate (I/min / GPM)	3		37	
	ol Construction		аналана (1997) 	Well Use			4		4	
	onventional)		_	Commerc		Duration of pumping	\vdash	[/	· []	
Rotary (F		Livesto	-	TestHole		hrs +min	ß		-5-1	
Boring/		🗌 Irrigatio	g ~		Air Condition ig	Final water level end of pumping (m/ft)	10		10	
Air pefcu:	1 8	☐ Industri ☐ Other.	nai specify	V [15		15	<u> </u>
					C. C. C. C. M. C.	If flowing give rate (Vmin / GPM)	10		10	
<u>lasida</u>	Construction R	1		(<i>/</i> 2)	Status of Well		20		20	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wali Thickness	Depth (Water Supply	Recommended pump depth (m/ft)	25		25	
(cm/in)	Concrete, Plastic, Steel)	(cm⁄in)	From	То	Test Hole		25		20	
			Gr	6"	Recharge Well	Recommended pump rate (I/min / GPM)	30		30	
					Dewatering Well Observation and/or	Well production (Imin (GPM)	40		40	···

Monitoring Hole 50 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned. Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Please provide a map below following instructions on the back. Outside Water Quality Depth (m/ft) Material Diameter Slot Ne. Abandoned, other, (Plastic, Galvanized, Steel) То (cm/in) From Ð specify flouse \leq ੋ **ਡ** Other, specify Water Details **Hole Diameter** Water found at Depth Kind of Water: Fresh Untested Diameter Depth (m/ft) 1 ocation 1 (cm/in) То From (*m/ft*) Gas Other, specify \Im Water found at Depth Kind of Water: Fresh Untested dhe (m/ft) Gas Other, specify 48f Water found at Depth Kind of Water: Fresh Untested $(m/ft) \square Gas \square Other, specify$ Well Contractor and Well Technician Information Johnston Drive Business Name of Well Contractor Well-Contractor's Licence-No. VM DING Ø 5 Business Address (Street Number/Name) Municipality Comments: and 6 Main NANO Province Business E-mail Address Postal Code electric. Col Ministry Use Only Well owner's Date Package Delivered И I information Audit No. Z319379 20180816 Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package er 13692323annston delivered 6 -700 Date Work Completed SEP 0 6 2019 Yes Wen Technician's Licence No. Signature of Technician and or Contractor Date Submitted 2010 200 0 8 6 0 0 No









Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** <u>(https://covid-19.ontario.ca/book-vaccine/)</u>.</u>

♥-♥-

(/page/government-ontario)

(/fr/page/registre-de-Français puits) (/FR/PAGE/REGISTRE-DE-FR PUITS)

Menu

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7372157Well Audit Number: *Z344080*Well Tag Number: *A305154This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

Map: Well records	ontario.ca
-------------------	------------

Township	OSGOODE TOWNSHIP
Lot	004
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454691.00 Northing: 5012376.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General	Most Common	Other	General	Depth D	Depth
Colour	Material	Materials	Description	From T	Го

Annular Space/Abandonment Sealing Record

DepthDepthType of Sealant UsedVolumeFromTo(Material and Type)Placed

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	То

Construction Record - Screen

Outside Material Depth Depth Diameter From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7681

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at

Pumping Rate

Duration of Pumping

Final water level

If flowing give rate

Recommended pump depth

Recommended pump rate

Well Production

Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	

2/23	3/22, 9:16 AM	Map: Well records ontario.ca
	40	40
	45	45
	50	50
	60	60

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Depth Diameter From To

Audit Number: Z344080

Date Well Completed: September 11, 2020

Date Well Record Received by MOE: November 03, 2020

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

Updated: October 18, 2021 Published: March 20, 2014

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Certificate of Analysis

Environment Testing

Client:	Paterson Group 154 Colonnade Rd. South Nepean, ON K2E 7T7		Report Number: Date Submitted: Date Reported: Project:	1971215 2022-02-04 2022-02-10 PH4407
Attention: PO#: Invoice to:	Mr. Kirby Magee-Dittburner 33729 Paterson Group	Page 1 of 13	COC #:	885852

Dear Kirby Magee-Dittburner:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

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APPROVAL:

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <u>http://www.cala.ca/scopes/2602.pdf</u>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

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Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Anions	CI	1	mg/L	AO 250	97	96
	F	0.10	mg/L	MAC 1.5	0.16	0.15
	N-NO2	0.10	mg/L	MAC 1.0	<0.10	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	<0.10	<0.10
	SO4	1	mg/L	AO 500	70	70
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	246	244
	Colour (Apparent)	2	TCU	AO 5	67*	28*
	Conductivity	5	uS/cm		848	840
	DOC	0.5	mg/L	AO 5	2.4	2.5
	рН	1.00		6.5-8.5	8.02	8.07
	Phenols	0.001	mg/L		<0.001	<0.001
	S2-	0.02	mg/L	AO 0.05		<0.02
		0.05	mg/L	AO 0.05	<0.05	
	TDS (COND - CALC)	1	mg/L	AO 500	551*	546*
	Turbidity	0.1	NTU	AO 5	4.9	2.2
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	384*	380*
Indices/Calc	Ion Balance	0.01			0.98	0.98
Metals	Ag	0.0001	mg/L		<0.0001	<0.0001
	Al	0.01	mg/L	OG 0.1	<0.01	<0.01
	As	0.001	mg/L	IMAC 0.01	<0.001	<0.001
	В	0.01	mg/L	IMAC 5.0	0.02	0.02
	Ва	0.01	mg/L	MAC 1.0	0.40	0.40
	Be	0.0005	mg/L		<0.0005	<0.0005
	Ca	1	mg/L		101	101
	Cd	0.0001	mg/L	MAC 0.005	<0.0001	<0.0001

Guideline = ODWSOG

* = Guideline Exceedence

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Client:	Paterson Group	Report Number:	1971215
	154 Colonnade Rd. South	Date Submitted:	2022-02-04
	Nepean, ON	Date Reported:	2022-02-10
	K2E 7T7	Project:	PH4407
Attention:	Mr. Kirby Magee-Dittburner	COC #:	885852
PO#:	33729		
Invoice to:	Paterson Group		

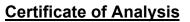
				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
Metals	Со	0.0002	mg/L		<0.0002	<0.0002
	Cr	0.001	mg/L	MAC 0.05	<0.001	<0.001
	Cu	0.001	mg/L	AO 1	0.008	0.003
	Fe	0.03	mg/L	AO 0.3	0.58*	0.46*
	Hg	0.0001	mg/L	MAC 0.001	<0.0001	<0.0001
	К	1	mg/L		2	2
	Mg	1	mg/L		32	31
	Mn	0.01	mg/L	AO 0.05	0.03	0.03
	Мо	0.005	mg/L		<0.005	<0.005
	Na	1	mg/L	AO 200	28	28
	Ni	0.005	mg/L		<0.005	<0.005
	Pb	0.001	mg/L	MAC 0.010	<0.001	<0.001
	Sb	0.0005	mg/L	IMAC 0.006	<0.0005	<0.0005
	Se	0.001	mg/L	MAC 0.05	<0.001	<0.001
	Sr	0.001	mg/L		0.306	0.293
	TI	0.0001	mg/L		<0.0001	<0.0001
	U	0.001	mg/L	MAC 0.02	<0.001	<0.001
	V	0.001	mg/L		<0.001	<0.001
	Zn	0.01	mg/L	AO 5	<0.01	<0.01
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0
Nutrients	N-NH3	0.010	mg/L		<0.010	<0.010
	Total Kjeldahl Nitrogen	0.100	mg/L		0.210	0.402
Subcontract	Tannin & Lignin	0.1	mg/L		0.9	0.9
VOCs Surrogates	1,2-dichloroethane-d4	0	%		110	120

Guideline = ODWSOG

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
VOCs Surrogates	4-bromofluorobenzene	0	%		82	73
	Toluene-d8	0	%		119	103
Volatiles	1,1,1,2-tetrachloroethane	0.5	ug/L		<0.5	<0.5
	1,1,1-trichloroethane	0.4	ug/L		<0.4	<0.4
	1,1,2,2-tetrachloroethane	0.5	ug/L		<0.5	<0.5
	1,1,2-trichloroethane	0.4	ug/L		<0.4	<0.4
	1,1-dichloroethane	0.4	ug/L		<0.4	<0.4
	1,1-dichloroethylene	0.5	ug/L	MAC 14	<0.5	<0.5
	1,2-dichlorobenzene	0.4	ug/L	MAC 200	<0.4	<0.4
	1,2-dichloroethane	0.2	ug/L	IMAC 5	<0.2	<0.2
	1,2-dichloropropane	0.5	ug/L		<0.5	<0.5
	1,3,5-trimethylbenzene	0.3	ug/L		<0.3	<0.3
	1,3-dichlorobenzene	0.4	ug/L		<0.4	<0.4
	1,3-Dichloropropylene (cis+trans)	0.3	ug/L		<0.3	<0.3
	1,4-dichlorobenzene	0.4	ug/L	MAC 5	<0.4	<0.4
	Acetone	30	ug/L		<30	<30
	Benzene	0.5	ug/L	MAC 1	<0.5	<0.5
	Bromodichloromethane	0.3	ug/L		<0.3	<0.3
	Bromoform	0.4	ug/L		<0.4	<0.4
	Bromomethane	0.5	ug/L		<0.5	<0.5
	c-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	c-1,3-Dichloropropylene	0.2	ug/L		<0.2	<0.2
	Carbon Tetrachloride	0.2	ug/L	MAC 2	<0.2	<0.2
	Chloroethane	0.2	ug/L		<0.2	<0.2
	Chloroform	0.5	ug/L		<0.5	<0.5

Guideline = ODWSOG

* = Guideline Exceedence

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
Volatiles	Dibromochloromethane	0.3	ug/L		<0.3	<0.3
	Dichlorodifluoromethane	0.5	ug/L		<0.5	<0.5
	Dichloromethane	4.0	ug/L	MAC 50	<4.0	<4.0
	Ethylbenzene	0.5	ug/L	MAC 140	<0.5	<0.5
	Ethylene Dibromide	0.2	ug/L		<0.2	<0.2
	Hexane	5	ug/L		<5	<5
	m/p-xylene	0.4	ug/L		<0.4	<0.4
	Methyl Ethyl Ketone (MEK)	10	ug/L		<10	<10
	Methyl Isobutyl Ketone (MIBK)	10	ug/L		<10	<10
	Methyl Tert Butyl Ether (MTBE)	2	ug/L	AO 15	<2	<2
	Monochlorobenzene	0.5	ug/L	MAC 80	<0.5	<0.5
	o-xylene	0.4	ug/L		<0.4	<0.4
	Styrene	0.5	ug/L		<0.5	<0.5
	t-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	t-1,3-Dichloropropylene	0.2	ug/L		<0.2	<0.2
	Tetrachloroethylene	0.3	ug/L	MAC 10	<0.3	<0.3
	Toluene	0.4	ug/L	MAC 60	<0.4	<0.4
	Trichloroethylene	0.3	ug/L	MAC 5	<0.3	<0.3
	Trichlorofluoromethane	0.5	ug/L		<0.5	<0.5
	Vinyl Chloride	0.2	ug/L	MAC 1	<0.2	<0.2
	Xylene; total	0.5	ug/L	MAC 90	<0.5	<0.5

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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1971215
2022-02-04
2022-02-10
PH4407
885852

QC Summary

An	alyte	Blank	QC % Rec	QC Limits
Run No 416630 Method AMBCOLM1	Analysis/Extraction Date 20)22-02-05 Ana	ilyst DRA	
Escherichia Coli				
Total Coliforms				
Run No 416636 Method C SM2130B	Analysis/Extraction Date 20)22-02-04 Ana	ilyst AaN	
Turbidity		<0.1 NTU	99	70-130
Run No 416668 Method C SM2120C	Analysis/Extraction Date 20	022-02-07 Ana	ilyst AsA	
Colour (Apparent)		<2 TCU	109	90-110
Run No 416675 Method EPA 350.1	Analysis/Extraction Date 20	022-02-07 Ana	ilyst SKH	
N-NH3		<0.010 mg/L	104	80-120
Run No 416691 Method EPA 351.2	Analysis/Extraction Date 20	022-02-07 Ana	ilyst SKH	
Total Kjeldahl Nitr	ogen	<0.100 mg/L	98	70-130
Run No 416692 Method C SM4500-S2	Analysis/Extraction Date 20 -D	022-02-07 Ana	ilyst AsA	
S2-		<0.01 mg/L	92	80-120

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	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416703 Analysis/Extraction Date 20 Method M SM3120B-3500C			
Calcium	<1 mg/L	99	90-110
Potassium	<1 mg/L	90	87-113
Magnesium	<1 mg/L	98	76-124
Sodium	<1 mg/L	97	82-118
Run No416719Analysis/Extraction Date20MethodSM 4110)22-02-08 Ana	ilyst AaN	
Chloride	<1 mg/L	100	90-110
N-NO2	<0.10 mg/L	101	90-110
N-NO3	<0.10 mg/L	105	90-110
SO4	<1 mg/L	105	90-110
Run No 416755 Analysis/Extraction Date 2022-02-07 Analyst AsA Method SM2320,2510,4500H/F Asa Asa			
Alkalinity (CaCO3)	<5 mg/L	104	90-110
Conductivity	<5 uS/cm	100	90-110
F	<0.10 mg/L	105	90-110
рН		99	90-110

Guideline = ODWSOG

* = Guideline Exceedence

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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1971215
2022-02-04
2022-02-10
PH4407
885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416780 Analysis/Extraction Date 20 Method EPA 8260)22-02-08 Ana	ilyst YH	
Tetrachloroethane, 1,1,1,2-	<0.5 ug/L	86	60-130
Trichloroethane, 1,1,1-	<0.4 ug/L	94	60-130
Tetrachloroethane, 1,1,2,2-	<0.5 ug/L	100	60-130
Trichloroethane, 1,1,2-	<0.4 ug/L	105	60-130
Dichloroethane, 1,1-	<0.4 ug/L	91	60-130
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichloropropane, 1,2-	<0.5 ug/L	88	60-130
1,3,5-trimethylbenzene	<0.3 ug/L	85	60-130
Dichlorobenzene, 1,3-	<0.4 ug/L	90	60-130
Dichloropropene,1,3-	<0.3 ug/L		
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Acetone	<30 ug/L		60-130
Benzene	<0.5 ug/L	88	60-130
Bromodichloromethane	<0.3 ug/L	92	60-130

Guideline = ODWSOG

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Bromoform	<0.4 ug/L	101	60-130
Bromomethane	<0.5 ug/L	91	60-130
Dichloroethylene, 1,2-cis-	<0.4 ug/L	87	60-130
Dichloropropene,1,3-cis-	<0.2 ug/L	81	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroethane	<0.2 ug/L	92	60-130
Chloroform	<0.5 ug/L	90	60-130
Dibromochloromethane	<0.3 ug/L	103	60-130
Dichlorodifluoromethane	<0.5 ug/L	89	60-130
Methylene Chloride	<4.0 ug/L	117	60-130
Ethylbenzene	<0.5 ug/L	82	60-130
Ethylene dibromide	<0.2 ug/L	100	60-130
Hexane (n)	<5 ug/L	90	60-130
m/p-xylene	<0.4 ug/L	84	60-130
Methyl Ethyl Ketone	<10 ug/L	100	60-130
Methyl Isobutyl Ketone	<10 ug/L		60-130
Methyl tert-Butyl Ether (MTBE)	<2 ug/L	80	60-130
Chlorobenzene	<0.5 ug/L	99	60-130

Guideline = ODWSOG

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
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1971215
2022-02-04
2022-02-10
PH4407
885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
o-xylene	<0.4 ug/L	91	60-130
Styrene	<0.5 ug/L	87	60-130
Dichloroethylene, 1,2-trans-	<0.4 ug/L	85	60-130
Dichloropropene,1,3-trans-	<0.2 ug/L	84	60-130
Tetrachloroethylene	<0.3 ug/L	81	60-130
Toluene	<0.4 ug/L	88	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
Trichlorofluoromethane	<0.5 ug/L	92	60-130
Vinyl Chloride	<0.2 ug/L	89	60-130
Run No 416789 Analysis/Extraction Date 20 Method EPA 8260)22-02-08 Ana	ilyst YH	
Xylene Mixture			
Run No 416791 Analysis/Extraction Date 20 Method SM5530D/EPA420.2)22-02-08 Ana	ilyst IP	
Phenols	<0.001 mg/L	57	50-120
Run No 416797 Analysis/Extraction Date 20 Method C SM2340B)22-02-08 Ana	ilyst AET	
Hardness as CaCO3			
lon Balance			

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

🛟 eurofins

1971215
2022-02-04
2022-02-10
PH4407
885852

QC Summary

Analyte		Blank		QC % Rec	QC Limits
TDS (COND - CALC)					
Run No416800AnalysisMethodSM 5310B	/Extraction Date 20	22-02-08 A	nalyst	AsA	
DOC		<0.5 mg/L		92	80-120
Run No416836AnalysisMethodEPA 200.8	/Extraction Date 20	22-02-08 A	nalyst	SD	
Silver		<0.0001 mg/L		102	80-120
Aluminum		<0.01 mg/L		115	80-120
Arsenic		<0.001 mg/L		101	80-120
Boron (total)		<0.01 mg/L		116	80-120
Barium		<0.01 mg/L		95	80-120
Beryllium		<0.0005 mg/L		114	80-120
Cadmium		<0.0001 mg/L		99	80-120
Cobalt		<0.0002 mg/L		111	80-120
Chromium Total		<0.001 mg/L		110	80-120
Copper		<0.001 mg/L		115	80-120
Iron		<0.03 mg/L		112	80-120
Manganese		<0.01 mg/L		106	80-120

Guideline = ODWSOG

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

🛟 eurofins

Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Molybdenum	<0.005 mg/L	102	80-120
Nickel	<0.005 mg/L	116	80-120
Lead	<0.001 mg/L	108	80-120
Antimony	<0.0005 mg/L	111	80-120
Selenium	<0.001 mg/L	90	80-120
Strontium	<0.001 mg/L	93	80-120
Thallium	<0.0001 mg/L	109	80-120
Uranium	<0.001 mg/L	112	80-120
Vanadium	<0.001 mg/L	106	80-120
Zinc	<0.01 mg/L	104	80-120
Run No 416840 Analysis/Extraction Date 2022-02-07 Analyst AET Method SUBCONTRACT-A A <td< th=""></td<>			
Tannin & Lignin	<0.10 mg/L	108	
Run No 416883 Analysis/Extraction Date 20 Method EPA 200.8	022-02-09 Ana	ilyst SD	
Mercury	<0.0001 mg/L	119	80-120

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Certificate of Analysis

Environment Testing

Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

 Report Number:
 1971215

 Date Submitted:
 2022-02-04

 Date Reported:
 2022-02-10

 Project:
 PH4407

 COC #:
 885852

Sample Comment Summary

 Sample ID: 1608980
 GW1
 S2 MRL elevated due to matrix interference (dilution was done).

 Sample ID: 1608981
 GW2
 S2 MRL elevated due to matrix interference (dilution was done).

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

DATUM Geodetic										G6052	
REMARKS BORINGS BY Backhoe				п	ATE	Decembe	or 17 202	01	HOLE NO.	P 1-21	
	Ę		SAN	/IPLE					esist. Blows/	0.3m	
SOIL DESCRIPTION	A PLOT		~	х	Що	DEPTH (m)	ELEV. (m)	• 5	0 mm Dia. Co	ne .	Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• V	Vater Content	%	iezon
GROUND SURFACE	0	_	Ň	REC	z ö	- 0-	-100.05	20	40 60	80	
Asphaltic concrete	D										
FILL: Brown silty sand with gravel and crushed stone		G	1								
<u>0.60</u>	<u>پېچې</u>	∐ —-									
Compact brown SILTY SAND							00.05				₽
Compact, brown SILTY SAND		G	2			1-	-99.05				
1.3	5										
Very stiff to stiff, grey SILTY CLAY		G	3								
- silt content increasing with depth		Δu	5			2-	-98.05				
0.5											
2.50											
Stiff, grey CLAYEY SILT						2	-97.05				
3.20		G	4			3-	-97.05				
End of Test Pit		<u> </u>									
(Groundwater infiltration at 1.0m depth)											
								20	40 60	80 100	0
									ar Strength (kl	Pa)	-

SOIL PROFILE AND TEST DATA

FILE NO.

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

											PG60	52
REMARKS									F	IOLE N	0 0.	
BORINGS BY Backhoe	1	i		D	ATE	Decembe	er 17, 202	21			^{O.} TP 2-2	21
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen.			lows/0.3m ia. Cone	Piezometer Construction
	1		Ř	ïRΥ	Ba	(m)	(m)					met
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	N VALUE or RQD			0	Wat	er Co	ntent %	iezo
GROUND SURFACE	5.		N I	REC	z ö			20	2	0	60 80	
FILL: Crushed stone with sand						- 0-	-100.06					<u>Y</u>
FILL: Brown silty sand with gravel		G	1									
Very stiff to stiff, grey SILTY CLAY		G	2									
End of Test Pit												
(Groundwater infiltration at 0.4m depth)								20			60 80	100
									near S	Streng	ot oo gth (kPa) ∆ Remoulded	

SOIL PROFILE AND TEST DATA

FILE NO.

PG6052

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

REMARKS

DATUM

neivianno		

Geodetic

BORINGS BY Backhoe				D	ATE	Decembe	er 17, 202	21	HOLE NO. TP 3-21	
SOIL DESCRIPTION	РГОТ		SAN	IPLE		DEPTH	ELEV.	Pen. R	esist. Blows/0.3m 0 mm Dia. Cone	ter tion
	STRATA I	ЭДХТ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)		Vater Content %	Piezometer Construction
GROUND SURFACE			4	RE	zö	0-	100.26	20	40 60 80	_
FILL: Crushed stone with sand							100.20			
FILL: Brown silty sand with gravel, 0.64		∦ - G	1							
Compact, brown SILTY SAND		G	2							⊻
<u>1.00</u>						1-	-99.26			
Very stiff to stiff, grey SILTY CLAY										
- silt content increasing with depth		∛ G	3							
<u>2.20</u>			5			2-	-98.26			Ā
Stiff, grey CLAYEY SILT										
3.00		<u> </u>	4			3-	-97.26			
(Groundwater infiltration at 0.9m depth)										
								20 Shea ▲ Undist	ar Strength (kPa)	100

SOIL PROFILE AND TEST DATA

FILE NO.

PG6052

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

REMARKS				_			- 17 000	14	HOLE NO	^{).} TP 4-21	
BORINGS BY Backhoe	ы		SAN	IPLE		Decembe	r 17, 202		esist Bla	ows/0.3m	
SOIL DESCRIPTION	PLOT					DEPTH (m)	ELEV. (m)		0 mm Dia		Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	VALUE r RQD			• v	Vater Con	itent %	iezom onstri
GROUND SURFACE	ST	L	NN	REC	N OF	0-	-100.14	20	40 6	60 80	ΞÖ
FILL: Crushed stone with sand 0.40						0	100.14				
FILL: Brown silty sand with gravel		G	1								¥
Compact, brown SILTY SAND		G	2			1_	-99.14				
Very stiff, grey SILTY CLAY		ХG	3			•	55.14				
End of Test Pit		Δ. ο.									
(Groundwater infiltration at 0.6m depth)								20 Shea ▲ Undist	40 6 ar Strengt urbed △	0 80 10 th (kPa) Remoulded	00

SYMBOLS AND TERMS

SOIL DESCRIPTION

Behavioural properties, such as structure and strength, take precedence over particle gradation in describing soils. Terminology describing soil structure are as follows:

Desiccated	-	having visible signs of weathering by oxidation of clay minerals, shrinkage cracks, etc.
Fissured	-	having cracks, and hence a blocky structure.
Varved	-	composed of regular alternating layers of silt and clay.
Stratified	-	composed of alternating layers of different soil types, e.g. silt and sand or silt and clay.
Well-Graded	-	Having wide range in grain sizes and substantial amounts of all intermediate particle sizes (see Grain Size Distribution).
Uniformly-Graded	-	Predominantly of one grain size (see Grain Size Distribution).

The standard terminology to describe the strength of cohesionless soils is the relative density, usually inferred from the results of the Standard Penetration Test (SPT) 'N' value. The SPT N value is the number of blows of a 63.5 kg hammer, falling 760 mm, required to drive a 51 mm O.D. split spoon sampler 300 mm into the soil after an initial penetration of 150 mm.

Relative Density	'N' Value	Relative Density %
Very Loose	<4	<15
Loose	4-10	15-35
Compact	10-30	35-65
Dense	30-50	65-85
Very Dense	>50	>85

The standard terminology to describe the strength of cohesive soils is the consistency, which is based on the undisturbed undrained shear strength as measured by the in situ or laboratory vane tests, penetrometer tests, unconfined compression tests, or occasionally by Standard Penetration Tests.

Consistency	Undrained Shear Strength (kPa)	'N' Value
Very Soft	<12	<2
Soft	12-25	2-4
Firm	25-50	4-8
Stiff	50-100	8-15
Very Stiff	100-200	15-30
Hard	>200	>30

SYMBOLS AND TERMS (continued)

SOIL DESCRIPTION (continued)

Cohesive soils can also be classified according to their "sensitivity". The sensitivity is the ratio between the undisturbed undrained shear strength and the remoulded undrained shear strength of the soil.

Terminology used for describing soil strata based upon texture, or the proportion of individual particle sizes present is provided on the Textural Soil Classification Chart at the end of this information package.

ROCK DESCRIPTION

The structural description of the bedrock mass is based on the Rock Quality Designation (RQD).

The RQD classification is based on a modified core recovery percentage in which all pieces of sound core over 100 mm long are counted as recovery. The smaller pieces are considered to be a result of closely-spaced discontinuities (resulting from shearing, jointing, faulting, or weathering) in the rock mass and are not counted. RQD is ideally determined from NXL size core. However, it can be used on smaller core sizes, such as BX, if the bulk of the fractures caused by drilling stresses (called "mechanical breaks") are easily distinguishable from the normal in situ fractures.

RQD % ROCK QUALITY

90-100	Excellent, intact, very sound
75-90	Good, massive, moderately jointed or sound
50-75	Fair, blocky and seamy, fractured
25-50	Poor, shattered and very seamy or blocky, severely fractured
0-25	Very poor, crushed, very severely fractured

SAMPLE TYPES

SS	-	Split spoon sample (obtained in conjunction with the performing of the Standard
		Penetration Test (SPT))

- TW Thin wall tube or Shelby tube
- PS Piston sample
- AU Auger sample or bulk sample
- WS Wash sample
- RC Rock core sample (Core bit size AXT, BXL, etc.). Rock core samples are obtained with the use of standard diamond drilling bits.

SYMBOLS AND TERMS (continued)

GRAIN SIZE DISTRIBUTION

MC% LL PL PI	- - -	Natural moisture content or water content of sample, % Liquid Limit, % (water content above which soil behaves as a liquid) Plastic limit, % (water content above which soil behaves plastically) Plasticity index, % (difference between LL and PL)					
Dxx	-	Grain size which xx% of the soil, by weight, is of finer grain sizes These grain size descriptions are not used below 0.075 mm grain size					
D10	-	Grain size at which 10% of the soil is finer (effective grain size)					
D60	-	Grain size at which 60% of the soil is finer					
Сс	-	Concavity coefficient = $(D30)^2 / (D10 \times D60)$					
Cu	-	Uniformity coefficient = D60 / D10					
Cc and Cu are used to assess the grading of sands and gravels:							

Well-graded gravels have: 1 < Cc < 3 and Cu > 4Well-graded sands have: 1 < Cc < 3 and Cu > 4Well-graded sands have: 1 < Cc < 3 and Cu > 6Sands and gravels not meeting the above requirements are poorly-graded or uniformly-graded. Cc and Cu are not applicable for the description of soils with more than 10% silt and clay (more than 10% finer than 0.075 mm or the #200 sieve)

CONSOLIDATION TEST

p'o	-	Present effective overburden pressure at sample depth
p'c	-	Preconsolidation pressure of (maximum past pressure on) sample
Ccr	-	Recompression index (in effect at pressures below p'c)
Cc	-	Compression index (in effect at pressures above p'_c)
OC Ratio)	Overconsolidaton ratio = p'_c / p'_o
Void Rat	io	Initial sample void ratio = volume of voids / volume of solids
Wo	-	Initial water content (at start of consolidation test)

PERMEABILITY TEST

k - Coefficient of permeability or hydraulic conductivity is a measure of the ability of water to flow through the sample. The value of k is measured at a specified unit weight for (remoulded) cohesionless soil samples, because its value will vary with the unit weight or density of the sample during the test.

SYMBOLS AND TERMS (continued) STRATA PLOT Topsoil Asphalt Peat Sand Silty Sand Fill Δ Sandy Silt Clay Silty Clay Clayey Silty Sand Glacial Till Shale Bedrock

MONITORING WELL AND PIEZOMETER CONSTRUCTION

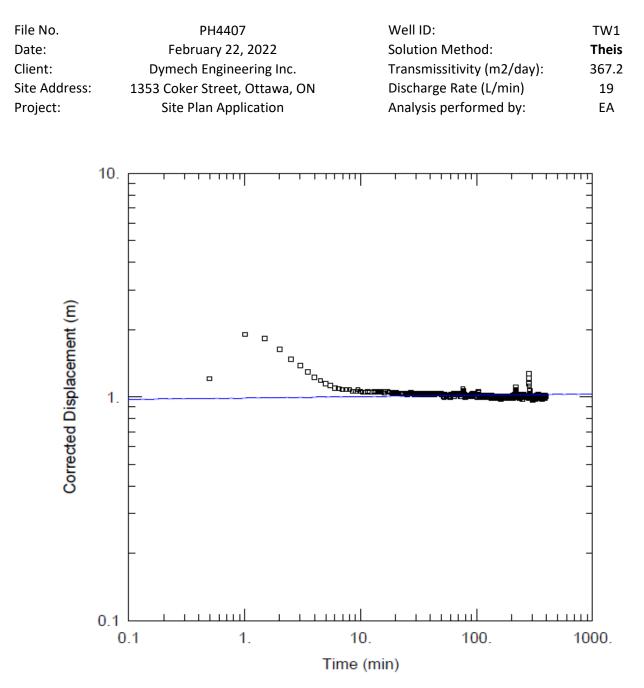






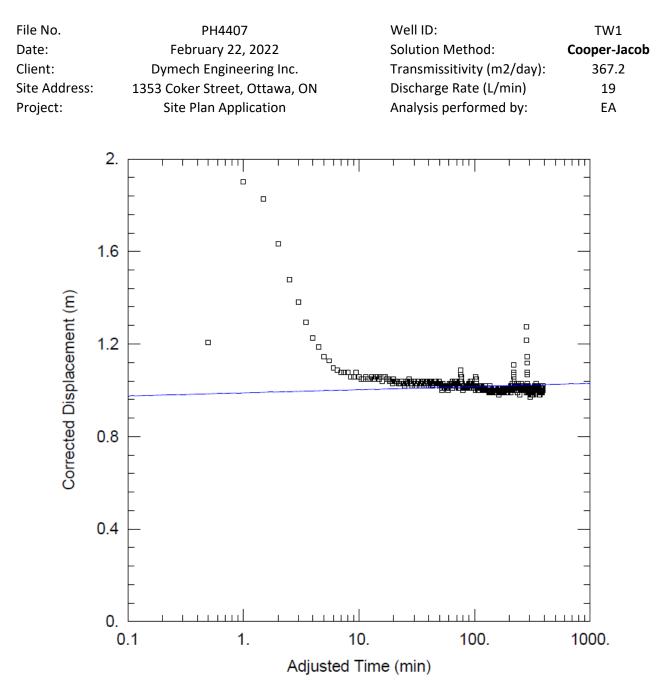
PH4407-LET.01

Pumping Test Analysis Report



PH4407-LET.01

Pumping Test Analysis Report



PH4407-LET.01

Pumping Test Analysis Report

File No.	PH4407
Date:	February 22, 2022
Client:	Dymech Engineering Inc.
Site Address:	1353 Coker Street, Ottawa, ON
Project:	Site Plan Application

Summary Table:		
Solution Method:	Well ID:	Transmissitivity (m2/day):
Theis	TW1	367.2
Cooper-Jacob	TW1	367.2
Average:		367.20

patersongroup 1353 Coker Street, Ottawa - Dymech

PREDICTIVE NITRATE I	MPACT	ASSES	SEMENT
Infiltration Factors			
Topography		0.30	
Soil		0.30	
Cover		0.10	
Total		0.70	
Site Characteristics			
Area of Site :		2675	m²
Total of roof areas:		729	m²
Total area of paved driveway areas:		475	m²
Roof + paved driveway areas		1204	m²
Impervious Area		1204	m ²
Percent Impervious Area =		45	%
Infiltration Area =		1471	m²
Septic Effluent			
Concentration of Effluent (Cs) =		4	mg/L
Daily Sewage Flow (Qs)=		3.6	m ³
See Notes below.			
Infiltration Calculation			
Nitrate concentration in precipitation $(C_i) =$		0	mg/L
Surplus Water (Environment Canada)		379	mm/yr
Factored Water Surplus =		265	mm/yr
Infiltration % due to stormwater management measures		-	%
Infiltration rate from stormwater management measures =		0	mm/yr
Infiltration Flow Entering the System $(Q_i) =$		1	m ³ /day
Mass Balance Model (MOEE, 1995) $C_T = (Q_bC_b+Q_eC_e+Q_iC_i)/(Q_b+Q_e+Q_i)$	= Cumulative	Nitrate Concent	ration
Q_b = flow entering the system across the upgradient area		0	m ³ /day
C _b = background nitrate concentration		0	mg/L
Q_e = flow entering the system from the septic drainfield		3.6	m³/day
C_{e} = concentration of nitrates in the septic effluent		4	mg/L
Q _i = flow entering the system from infiltration		1	m³/day
C _i = Concentration of nitrates in the infiltrate		0	mg/L
	C _T =	3.08	mg/L
Estimate Number of Lots		1	lots
Notes: Site characteristic values were measured as approxima volume was calculted by Paterson Group as a preliminary design		the available sit	e plan. Daily Sewage Flow

DRAWING LIST:

<u>ARCHITECTURAL</u>

A000 – COVER PAGE A000 – COVERTAGE A002 – DRAWING LIST, LEGEND + NEW SITE PLAN + ZONING COMPLIANCE + O.B.C MATRIX A050 – EXCAVATION PLAN + NOTES

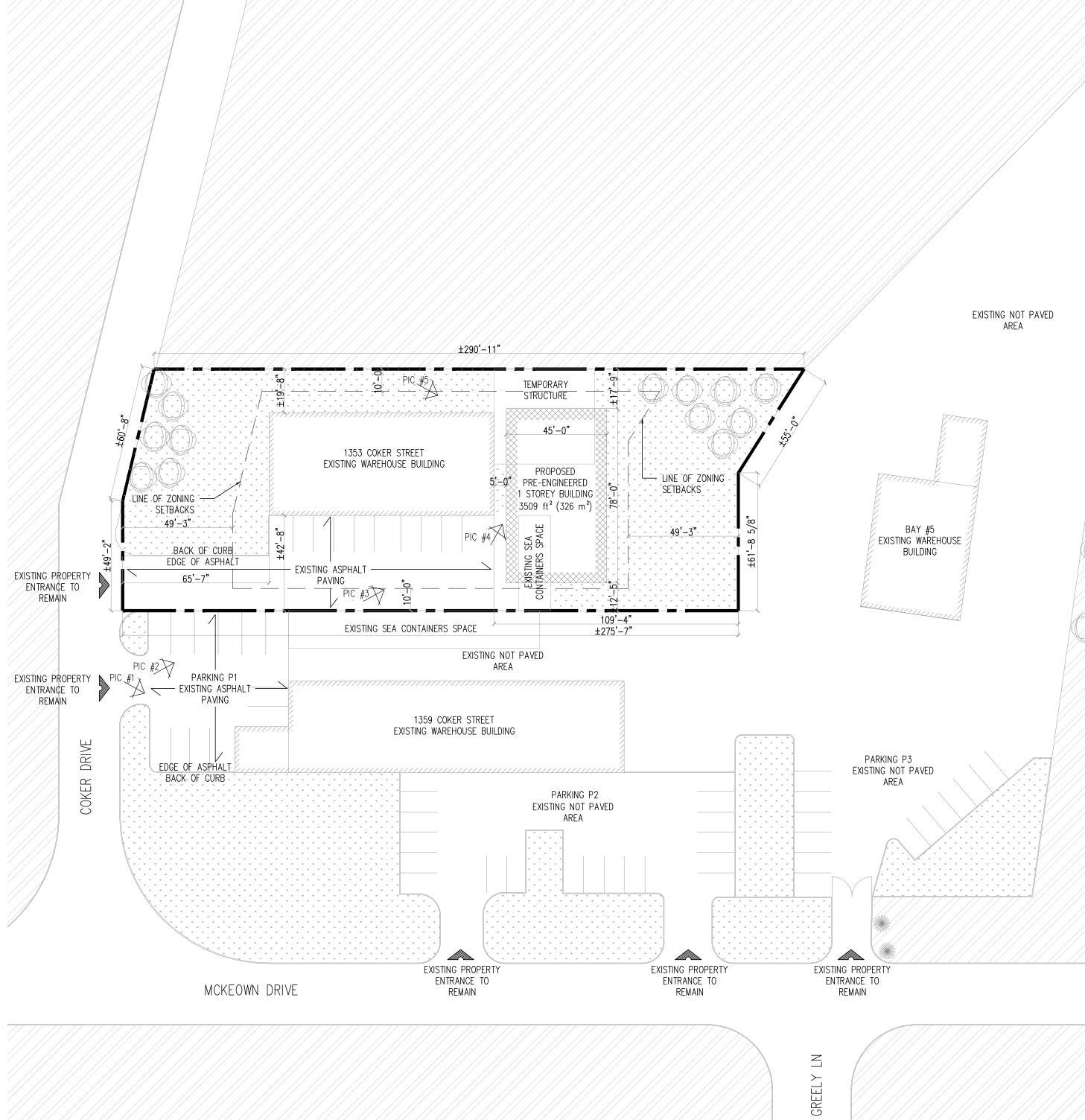
A100 – NEW FLOOR PLAN + NOTES A200 – EXTERIOR ELEVATIONS + NOTES

LEGEND:



NOT INCLUDED IN CONTRACT (N.I.C.)

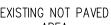
EXISTING GRASS







PICTURE #1





PICTURE #2

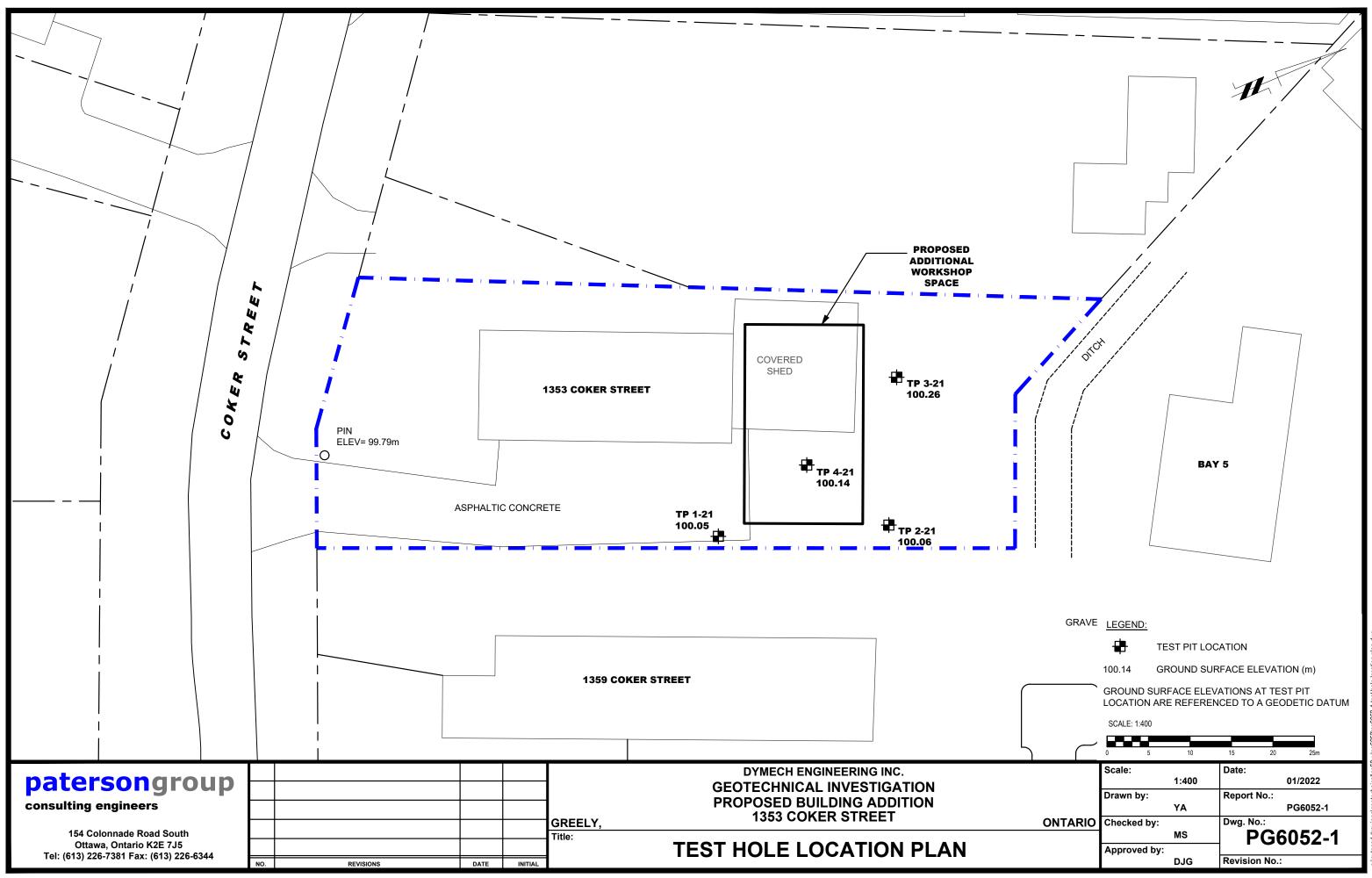


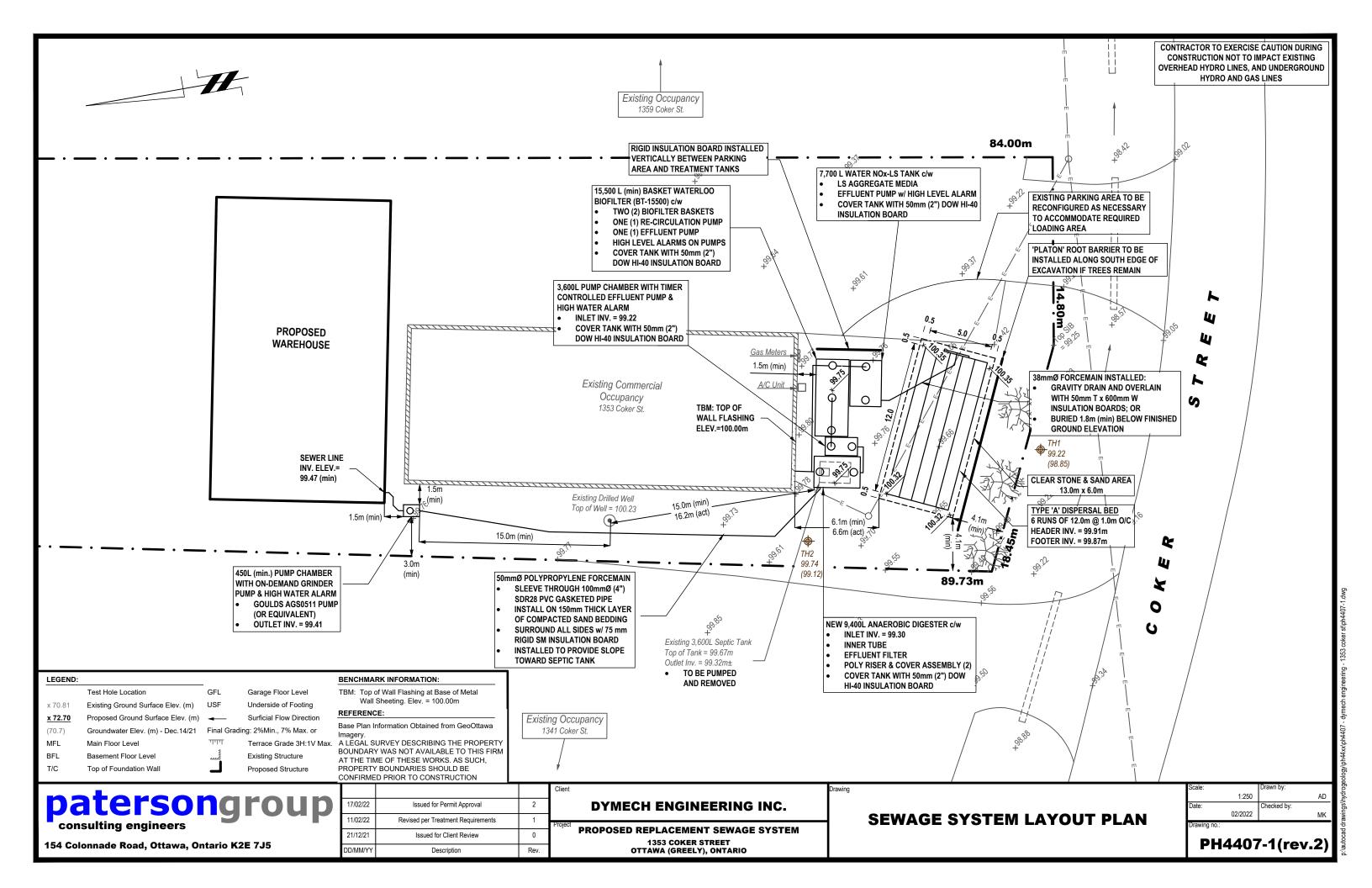
PICTURE #3

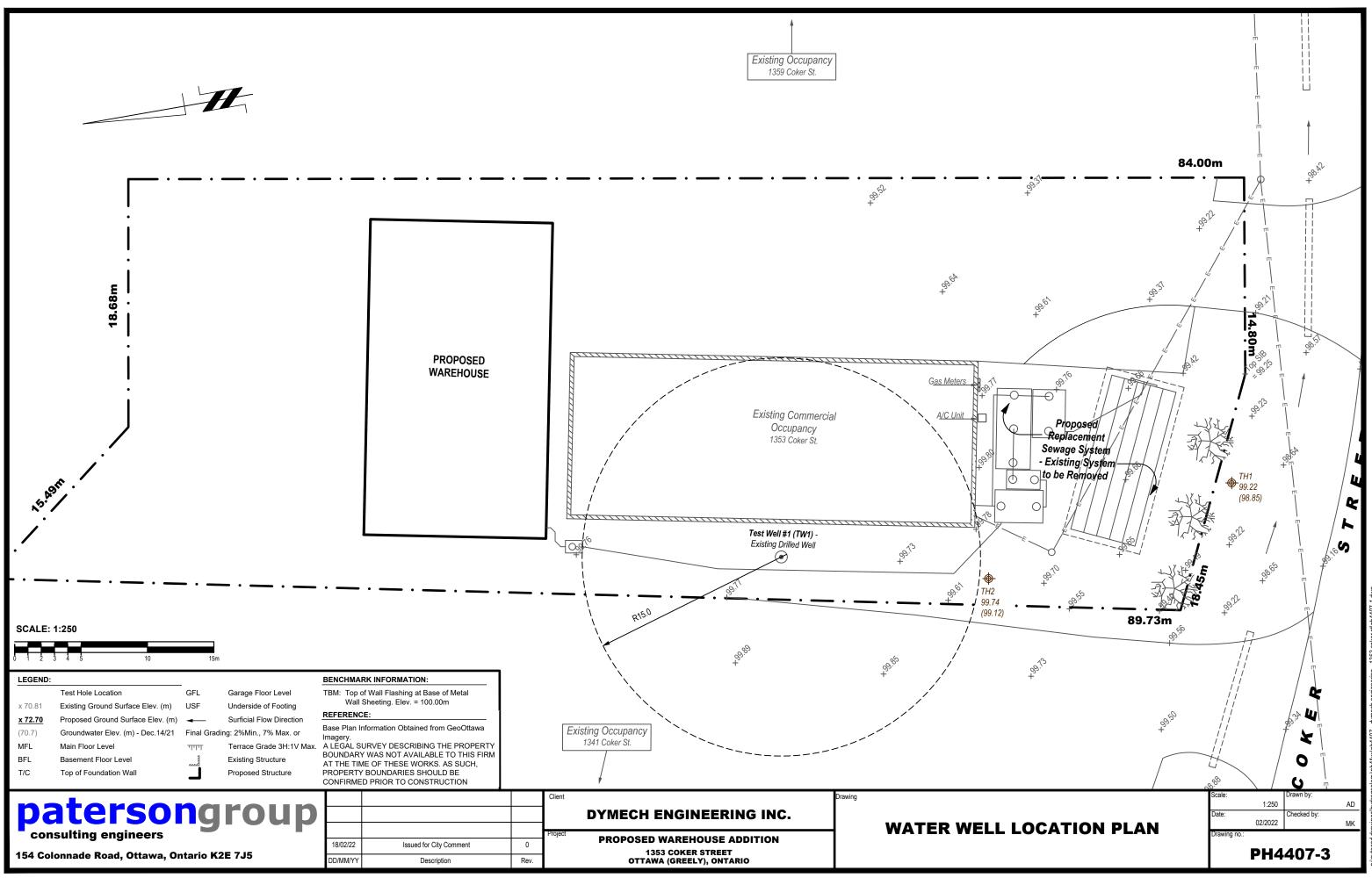


PICTURE #5

	-	and the second second		
	535 LE	A GGET D	RCHITEC RIVE, SUITE TARIO K2K	C T S 102
		C J	LELAI ARDI engineer	NE
D).B. Gray	Eng	ineerin	ig Inc.
LO	CATION PLAN:	GROUND F	LOOR	
			TRUE NO	
RE	ONTRACTOR SHALL PORT ANY OMISSIC FORE PROCEEDING	ONS OR DISC	REPANCIES TO THE	NSIONS AND ARCHITECT
D	D NOT SCALE DRAV			
NO.		EVISIC	ЛИ2	DATE
1	Issued for Class	D estimate		Feb 22,2021
PRC	DJECT NORTH		DATE	
			DRAWN PB	
	$\langle $	>	CHECKED AB DATE PRINTED	
<u> </u>			-	
N(Pl	DT TO BE US JRPOSES UN	DED FOR TIL SIGNE	CONSTRUCTI	UN ARCHITECT.
	ess: 1359 coker stree	ADE	WAREHOU DITION	SE
DRAV		V SITE + NOT	E PLAN TES	
SCAL	⊧ AS SHOWN	DRAWNG NO. :		
PROJ	ECT NO: 059-20	A	7-00	2
	059-20			







lautocad drawings\hydrogeology\ph44xx\ph4407 - dymech engineening - 1353 coker st\ph4407-1.d

STREET/CIVIC INITIAL
 Special Note A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, it may be renewed only once for a period of 12 months from the date of expiry. No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without notifying, filing details with and obtaining the authorization of the Chief Building Official. (Building Code Act 1992, c.23, s.8(12))
Sewage System Permit Construction Requirements
 Clay Soils/Bedrock only (if required per issued Approval) In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill.
 2. Installation Inspection - 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted: a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed
 3. Final Grading Inspection – 3rd inspection When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be complete: a) The leaching bed and septic tank must be covered with sand fill and topsoil and graded b) All conditions of the Sewage System Permit & comments on the installation inspection report must be met c) The depth of cover & material type must be identified by inspection pipes or holes placed over trenches at 4 d) The 4 corners of the bed must be staked
JULY 2020 Location: 2:Administration templates\CoverPart8page

	RVCA RECEN MAR 0 4 20	ADDI	ication	for a Pe	rmit to	Construct	or Demolish
	MARUAZO	For use by	Principal	Authority		SEP	TIC F
Application number:	REFER TO:		Permit n	umber (if diffe	rent):	22	Ulding Code Act, 1992 TIC FILE # -059
Date received:			Roll num	iber:		07	TAWA
Application submitted to: _	OTT (Name of municipal	AWA SE					
A. Project informatio	n						
Building number, street na 1353 Coker St.		-				Unit number	Lot/con.
^{Municipality} Ottawa (Osgoode)		Postal code K4P 1A1		Plan number		cription	
Project value est. \$,		Area of work	(m ²)	7	
B. Purpose of applica	ation		and a second				
New constructio		building	Altera	tion/repair	D	emolition	Conditional Permit
Commercial Description of proposed w Construction of new	ork	to accomm	nodate p	roposed co	onstruct	ion of addition	al warehouse
building C. Applicant	Applicant is:	Owner or		Authorized a	gent of or	wner	
Last name		First name		Corporation			
Dillon Street address		Adam		Paterson	Group	NC.	Lot/con.
154 Colonnade Rd.	S						
Municipality		Postal code		Province		E-mail	
Ottawa (Nepean) Telephone number		K2E 7J5 Fax		ON		Cell number	ersongroup.ca
() (613) 226-7381		()					
D. Owner (if different	from applicant)						
Last name		First name		Corporation Dymech	and Second and a second	ship leering Inc.	
Street address 1359 Coker St.						Unit number	Lot/con.
Municipality Ottawa (Osgoode)		Postal code K4P 1A1		Province ON		E-mail mmain@dym	ech.ca
Telephone number ⁽ 613 ⁾ 327-4867		Fax ()	×			Cell number ()	

Application for a Permit to Construct or Demolish - Effective January 1, 2014

Page 1

ii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. If yes to (ii) provide registration number(s):	
Street address REFER TO: Unit number Lot/cor Municipality Postal code Province E-mail Telephone number Fax Cell number () F. Tarion Warranty Corporation (Ontario New Home Warranty Program) I. Is proposed construction for a new home as defined in the Ontario New Home Warranties Yes No Ii. Is proposed construction for a new home as defined in the Ontario New Home Warranties Yes No Iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No Iii. It yes to (iii) provide registration number(s):	5.9
Street address REFER TO: Unit number Lot/cor Municipality Postal code Province E-mail Telephone number Fax Cell number () () F. Tarion Warranty Corporation (Ontario New Home Warranty Program) i. Is proposed construction for a new home as defined in the Ontario New Home Warranties Yes No ii. Is proposed construction for a new home as defined in the Ontario New Home Warranties Plan Act? Yes No iii. Is proposed construction of a new home as defined in the Ontario New Home Warranties Plan Act? Yes No iii. Is proposed construction of a new home as defined in the Ontario New Home Warranties Plan Act? Yes No iii. Is proposed construction onumber(s):	
Telephone number Fax Cell number () F. Tarion Warranty Corporation (Ontario New Home Warranty Program) i. Is proposed construction for a new home as defined in the Ontario New Home Warranties Yes No Plan Act? If no, go to section G. iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. If yes to (ii) provide registration number(s):	
F. Tarion Warranty Corporation (Ontario New Home Warranty Program) i. Is proposed construction for a new home as defined in the Ontario New Home Warranties Yes No Plan Act? If no, go to section G. ii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. It get to (ii) provide registration number(s):	
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Plan Act? If no, go to section G. Image: Section G. ii. Is registration required under the Ontario New Home Warranties Plan Act? Yes No iii. If yes to (ii) provide registration number(s):	
iii. If yes to (ii) provide registration number(s):	~
3. Required Schedules i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities. i) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system. 4. Completeness and compliance with applicable law v) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Yes No Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the Building Code Act, 1992, to be paid when the application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. No ii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. Yes No iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. Yes No ivan resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. No No ivan resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. No <td>~</td>	~
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1. Completeness and compliance with applicable law 1. This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Yes No Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the Building Code Act, 1992, to be paid when the application is made. Yes No 1) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. Yes No ii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. Yes No iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992 which enable the chief building official to determine whether the proposed building, construction or demolition will not contravene any applicable law. Yes No v) The proposed building, construction or demolition will not contravene any applicable law. Yes No the proposed building, construction or demolition will not contravene any applicable law. Yes No <td< td=""><td></td></td<>	
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application is made. Image: Contract of the second process of the second procesecond p	
i) This application is accompanied by the information and documents prescribed by the applicable by- law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law. v) The proposed building, construction or demolition will not contravene any applicable law. v) The proposed building, construction or demolition will not contravene any applicable law. v) Declaration of applicant Adam Dillon - Paterson Group Inc.	
Iaw, resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992 which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law. v) The proposed building, construction or demolition will not contravene any applicable law. v) The proposed building, construction or demolition will not contravene any applicable law. Yes Adam Dillon - Paterson Group Inc. declare th	
Adam Dillon - Paterson Group Inc.	
Adam Dillon - Paterson Group Inc.	
(print name)	at:
 The information contained in this application, attached schedules, attached plans and specifications, and other attac documentation is true to the best of my knowledge. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership. 	hed
Date 2/17/22 Signature of applicant	
Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the <i>Building Code Act, 1992</i> , used in the administration and enforcement of the <i>Building Code Act, 1992</i> . Questions about the collection of personal information may be act the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. 2E5 (416) 585-6666.	dressed to powers an hority to wh
pplication for a Permit to Construct or Demolish – Effective January 1, 2014	
Page 2 OSSO version Aug	gust 20 ⁻

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Sche	uule		Desig	ner in	tormation	1

	MAR O		dule 1: Desi	
Use one form for each individual who revie A. Project Information	WS and takes re REFER TO:	sponsibility for design a	ctivities with respec	st to the project.
Building number, street name 1353 Col	or Ct		Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other d		22-059
^{Municipality} Ottawa (Osgoode)	K4P 1A1			
B. Individual who reviews and takes	s responsibili			OTTAWA
Name Adam Dillon		Firm Paterson G	roup Inc.	
Street address 154 Colonnade Rd.	S.		Unit no.	Lot/con.
Municipality Ottawa (Nepean)	Postal code K2E 7J5	Province ON	E-mail adill	on@patersongroup.ca
Telephone number () (613) 226-7381	Fax number		Cell number	
C. Design activities undertaken by Division C]	individual ide	entified in Section B.	[Building Code	Table 3.5.2.1. of
House Small Buildings Large Buildings Complex Buildings Description of designer's work	Buildin Detecti Fire Pr	– House g Services ion, Lighting and Power otection	Plumb Plumb X On-sit	ng Structural bing – House bing – All Buildings te Sewage Systems
Туре 'А' [Dispersal Be		er with WaterN	Ox-LS System and
Type 'A' [D. Declaration of Designer	Dispersal Be			Ox-LS System and
Type 'A' [D. Declaration of Designer Adam Dillon - Paterson Group Inc.	Dispersal Be	ed work on behalf of a firm	declare that (ch	uose one as appropriate):
Type 'A' [D. Declaration of Designer Adam Dillon - Paterson Group Inc. (print nam I review and take responsibilit C, of the Building Code. I am	Dispersal Be	ed work on behalf of a firm	declare that (ch	uoose one as appropriate):
D. Declaration of Designer I Adam Dillon - Paterson Group Inc. (print nam I review and take responsibilit C, of the Building Code. I am Individual BCIN: 19879	Dispersal Be	work on behalf of a firm ne firm is registered, in t and am qualified in the building Code. on and qualification req d qualification:	declare that (ch n registered under s he appropriate class appropriate catego uirements of the Bu	noose one as appropriate): ubsection 3.2.4.of Division ses/categories. ry as an "other designer"

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Application for a Permit to Construct or Demolish - Effective January 1, 2014

Page 3

Schedule 2ESewage System Installer Information

				SEDT
A. Project Information		MAD 0 1 2022	And the second states in	SEPTIC FILE
Building number, street name 1353 C	oker St.	MAN U & ZUZZ	Unit number	Lot/con. 22 - 0 5 0
Municipality Ottawa (Osgoode)	Postal code K4P 1A1	E Plan number/ other desc	ription	0.73
B. Sewage system installer				UTAWA
Is the installer of the sewage system eng emptying sewage systems, in accordance Yes (Continue to Section C)	e with Building C	ness of constructing on-site, ode Article 3.3.1.1, Division o (Continue to Section E)	C? X Installer	servicing, cleaning or unknown at time of ion (Continue to Section E)
C. Registered installer information	on (where ans	wer to B is "Yes")		
Name			BCIN	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax		Cell number	
D. Qualified supervisor informat	ion (where ans	swer to section B is "Yes	s")	
Name of qualified supervisor(s)		Building Code Identificatio		
E. Declaration of Applicant:				
Adam Dillon - Pat	erson G	Froup Inc.		declare that:
(print name)				
I am the applicant for the perm shall submit a new Schedule 2 <u>OR</u> I am the holder of the permit to	prior to construc	tion when the installer is kno	wn;	
is known.				
I certify that:				
1. The information contained in th	is schedule is tru	e to the best of my knowledg	e.	
2. If the owner is a corporation or	partnership, I hav	ve the authority to bind the co	prporation or partne	rship.
2/17/22			1 50	
Date		Signature of applicant	Ale Ale	
	1 · p · // //			

Application for a Permit to Construct or Demolish - Effective January 1, 2014

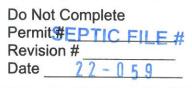
Page 4

Ottawa Septic System Office Bureau des systèmes septiques d'Ottawa RVCA RE MAR 0 RECTRIO Sched Proposed Complete Ser	L 2022 Do Not Complete - 1 / Permit # Revision # <u>2 - 0 5 9</u> Date
1. Engineered	2. Water supply
Yes Yes	Proposed
□ No	Existing
3. Type of work proposed	4. Type of Well
New Installation	Dug/bored/Sandpoint well
Replacement	Drilled well
Alteration	□ Municipal
	□ Other
5. Residential Sewage Design Flow Info. Bedrooms House (floor area) m ² People Total Fixture Units (Schedule 8) Residential Flow L/day	6. Sewage Design Flow <u>Other Occupancies</u> Design Flow <u>3,600</u> L/day Detailed sewage flow calculations: Refer to Drawing No. PH4407-2(rev.2)
	Class 4 – BMEC Area Bed (Schedule 11)
7. Type of System	Fully raised
Treatment Unit	Partially raised
Class 2 – Leaching Pit	In-ground
\Box Class 3 – Cesspool	Class 4 – "Type A" Dispersal (schedule 13)
Class 4 – Shallow Buried Trench	Fully raised
Class 4 – Trench (Schedule 9)	Partially raised
	In-ground
Fully raised	Class 4 – "Type B" Dispersal (Schedule 14)
Partially raised	Fully raised
In-ground Class 4 – Filter Media (Schedule 10)	Partially raised
	In-ground
Fully raised	
Partially raised	☐ Class 5 – Holding Tank (9000L min)
L] In-ground	Tank/TreatmentUnit/PumpChamber ONLY
	Effluent Filter/Risers ONLY

Page 5

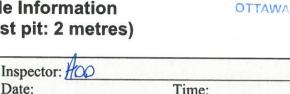
n Office septiques d'Óttawa	Schec	STREET, STREET, STREET, STREET,	Revision Date	22-(
S	Sewage Sys		etails	OTT
Type of System Class 4 - Type 'A	A' Dispersal Bed		()	Schedule
	Litres			
Septic Tank Effluent Filter Make:	uf-Tite	M	odel: EF6 (or equivalent)	
Treatment Unit – Make & Model	Waterloo Bio	filter B	T-15,500 + WaterNOx-L	S
Number of Units:		7	Other:	
Refer to Typical Drawing # PH44	07-1&-2(rev.2)	1	Pump(s) required yes	
Mantle Information:		_	Pump Rate	L/15m
Native or imported =15m in	direction	n(s)	Note: Alarm required	for all
			pumping systems	
Slope subgrade	% sl	ope		
	dire	ction(s)		
Site to be Scarified (If clay)	YES	/ NO - N	lo	
Clay Seal Required (If bedro		/ NO - I	No	
Trench				
Distribution Pipe Length	m		Shallow Buried Trench	
Loading Area	m ²		Pipe Length	m
Type of Chamber				
Length of Chamber	m		Filter Media Bed	
BMEC Area Bed			Stone	m ²
🖬 Туре А			Extended Base	m ²
Туре В			Pipe	m
Stone 78.0	m²		Weight of Filter Media	Kg
Sand 78.0	m²		Loading Area	m ²
Pipe 72.0m (6 @ 12.0m)	m			
Linear Loading				
Tank/Treatment Unit/Pum		eplace	ment ONLY	
Effluent Filter & Riser ONI	LY			

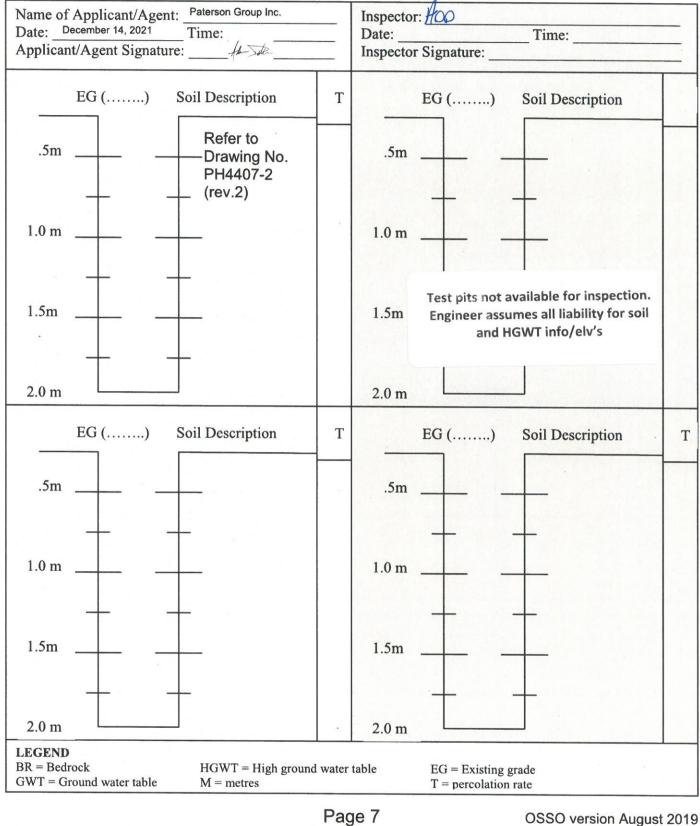
	RVCA RECEIVED	
Bureau des systèmes septiques d'Ottawa	MAR 0 4 2022	Do Not Co Permit # E Revision #



Schedule 6 Soil and Water Table Information (Minimum depth of test pit: 2 metres)

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Ottawa Septic Bureau des système System Office septiques d'Ottawa Scale: 1Block =					25	MAR 0 4 2022 Schedule 7 Layout Sectio										Do Not Complete C FIL Permit # Revision # <u>22 - 059</u> Date												
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			- C						at b	ase o	f met	al				X ₁	,					X ₂ _						
			o nea cati			fsou	th wa	II								X_1 X_2 X_3 X_4 X_5 X_6 (toe) X_7 X_8												

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Do Not Co	omplete
	SEPTIC FILE
Revision #	ŧ
Date	77-050

Schedule 8 **Fixture unit count**

OTTAWA

Fixtures	# Existing	; + #	Proposed	X	unit count	=	Fixture Count
Bathroom							
Bathroom group (toilet, sink and tub							
or shower) installed in the same room		+		X	6	=	
Bathtub with/without overhead shower		+		X	1.5	=	
Shower stall		+		x	1.5	=	
Wash basin (SINK) (1 ¹ / ₂ inch trap)	2	+	1	x	1.5	=	4.5
Watercloset (TOILET) tank operated	2	+	1	x	4	=	12.0
Bidet		+		x	1	=	
Kitchen							
Dishwasher		+		x	1	=	
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap		+		x	1.5	=	
Other							
Domestic washing machine		+		x	1.5	=	
Combination sink and laundry tray single or double (Installed on 1 ¹ / ₂ trap)		+		x	1.5	=	
*Insort the TOTAL in section 5 of School						Tot	al: 16.5

*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

- 1. Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.
- 2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

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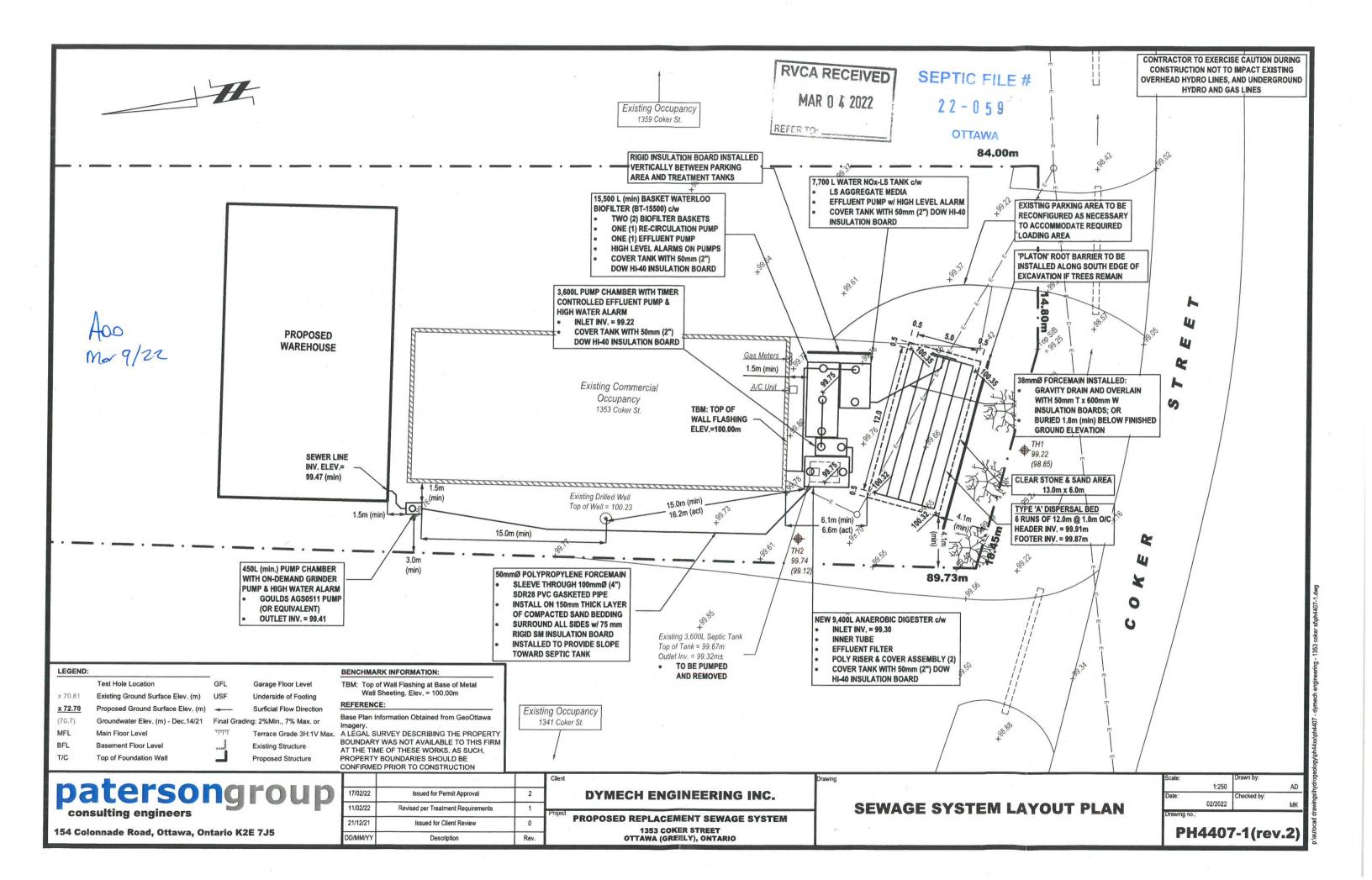
Agent/Owner signature

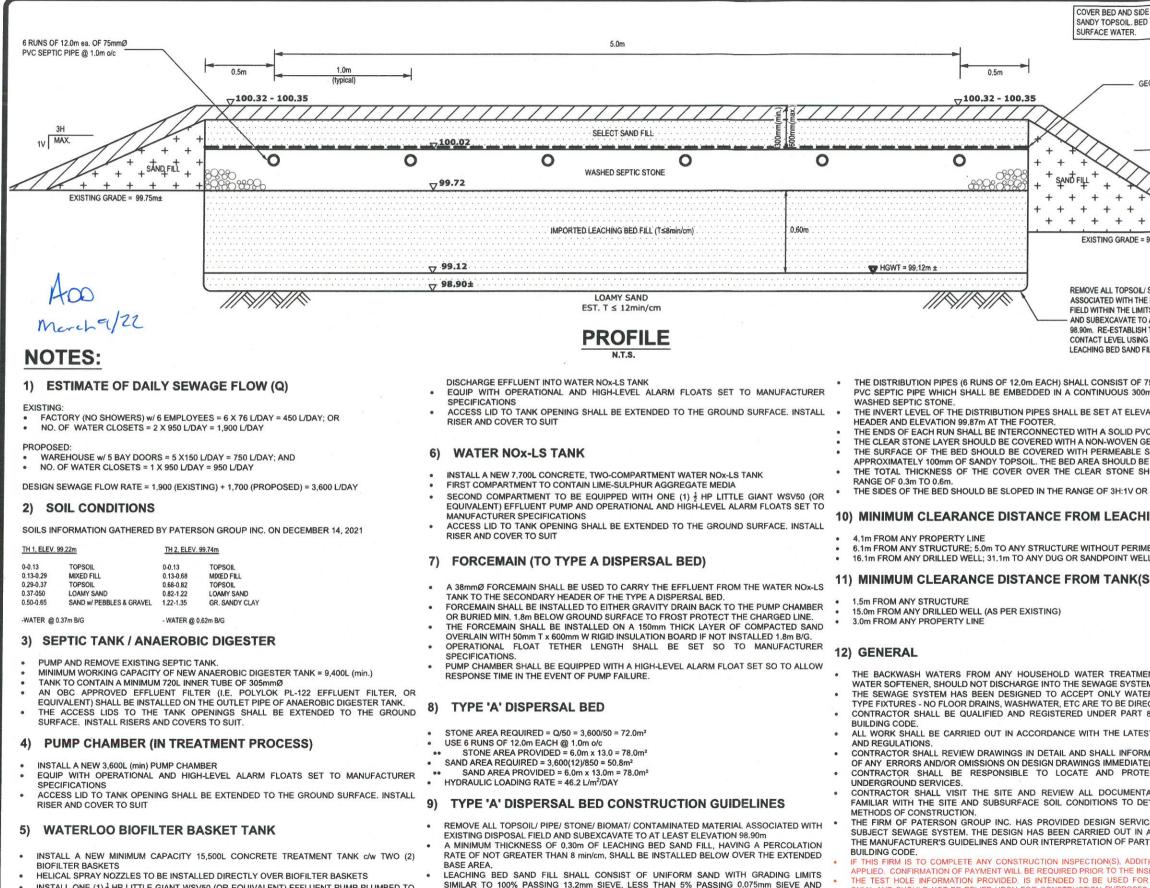
February 17, 2022

OSSO version August 2019

Date

MAR 0 4 2022 REFERTO





- INSTALL ONE (1) HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO RECIRCULATE EFFLUENT TO INLET OF ANAEROBIC DIGESTER TANK
- INSTALL ONE (1) ¹/₂ HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO
- HAVING A PERCOLATION RATE OF 6 TO 8 min/cm THE LEACHING BED FILL SHALL CONFORM TO THE REQUIREMENTS OF 8.7.7.1.(4).(a) OF THE

COVER BED AND SIDE SLOPES WITH 100mm OF SANDY TOPSOIL. BED TO BE SHAPED TO SHED SURFACE WATER.	SEPTIC FILE
0.5m GEOTEXTILE FABRIC	22-059
V100.32 - 100.35	OTTAWA
	RVCA RECEIVED MAR 0 & 2022
+ + \$AND FILL + + + + + + + + + + + + + + + + + +	MAR 0 & 2022 REFER TO:
THEWT = 99:12m ±	
REMOVE ALL TOPSOIL/STONE/PIPE/BIOMAT ASSOCIATED WITH THE EXISTING DISPOSAL FIELD WITHIN THE LIMITS OF THE SAND AREA AND SUBEXCAVATE TO AT APPROX. ELEV. 98.90m. RE-ESTABLISH THE SPECIFIED CONTACT LEVEL USING ADDITIONAL LEACHING BED SAND FILL, WHERE REQUIRED.	
THE DISTRIBUTION PIPES (6 RUNS OF 12.0m EACH) SHALL CONSIST OF 75mmØ PERFORATED PVC SEPTIC PIPE WHICH SHALL BE EMBEDDED IN A CONTINUOUS 300mm THICK LAYER OF WASHED SEPTIC STONE. THE INVERT LEVEL OF THE DISTRIBUTION PIPES SHALL BE SET AT ELEVATION 99.90m AT THE	
HEADER AND ELEVATION 99.87m AT THE FOOTER. THE ENDS OF EACH RUN SHALL BE INTERCONNECTED WITH A SOLID PVC FOOTER PIPE.	17/02/22 Issued for Permit Approval 2 11/02/22 Revised per Treatment Requirements 1
THE CLEAR STONE LAYER SHOULD BE COVERED WITH A NON-WOVEN GEOTEXTILE FABRIC. THE SURFACE OF THE BED SHOULD BE COVERED WITH PERMEABLE SAND FOLLOWED BY	12/12/21 Issued for Preliminary Review 0
APPROXIMATELY 100mm OF SANDY TOPSOIL. THE BED AREA SHOULD BE VEGETATED. THE TOTAL THICKNESS OF THE COVER OVER THE CLEAR STONE SHOULD BE WITHIN A	DD/MM/YY DESCRIPTION REV.
RANGE OF 0.3m TO 0.6m. THE SIDES OF THE BED SHOULD BE SLOPED IN THE RANGE OF 3H:1V OR SHALLOWER.	patersongroup
4.1m FROM ANY PROPERTY LINE 6.1m FROM ANY STRUCTURE; 5.0m TO ANY STRUCTURE WITHOUT PERIMETER DRAINAGE 16.1m FROM ANY DRILLED WELL; 31.1m TO ANY DUG OR SANDPOINT WELL	consulting engineers
) MINIMUM CLEARANCE DISTANCE FROM TANK(S)	
1.5m FROM ANY STRUCTURE 15.0m FROM ANY DRILLED WELL (AS PER EXISTING) 3.0m FROM ANY PROPERTY LINE	DYMECH ENGINEERING INC.
) GENERAL	Project: PROPOSED SEWAGE
THE BACKWASH WATERS FROM ANY HOUSEHOLD WATER TREATMENT UNIT, SUCH AS WATER SOFTENER, SHOULD NOT DISCHARGE INTO THE SEWAGE SYSTEM. THE SEWAGE SYSTEM HAS BEEN DESIGNED TO ACCEPT ONLY WATER FROM DOMESTIC TYPE FIXTURES - NO FLOOR DRAINS, WASHWATER, ETC ARE TO BE DIRECTED TO SYSTEM. CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART 8 OF THE ONTARIO BUILDING CODE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST BY-LAWS, CODES	SYSTEM REPLACEMENT 1353 COKER ST. OTTAWA (GREELY), ONTARIO
AND REGULATIONS. CONTRACTOR SHALL REVIEW DRAWINGS IN DETAIL AND SHALL INFORM THE CONSULTANT OF ANY ERRORS AND/OR OMISSIONS ON DESIGN DRAWINGS IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND SERVICES. CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO BECOME	Drawing: SEWAGE SYSTEM DETAIL & NOTES
AMILIAR WITH THE SITE AND SUBSURFACE SOIL CONDITIONS TO DETERMINE SUITABLE METHODS OF CONSTRUCTION. THE FIRM OF PATERSON GROUP INC. HAS PROVIDED DESIGN SERVICES ONLY FOR THE	Scale: Drawn by:
SUBJECT SEWAGE SYSTEM. THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND OUR INTERPRETATION OF PART 8 OF THE ONTARIO BUILDING CODE.	N.T.S. AD Date: Checked by:
IF THIS FIRM IS TO COMPLETE ANY CONSTRUCTION INSPECTION(S), ADDITIONAL FEES MAY BE APPLIED, CONFIRMATION OF PAYMENT WILL BE REQUIRED PRIOR TO THE INSPECTION. THE TEST HOLE INFORMATION PROVIDED, IS INTENDED TO BE USED FOR DESIGN PURPOSES ONLY, AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. IF DISCREPANCIES ARE FOUND DURING THE CONSTRUCTION PROCESS, IT IS THE CLIENT'S RESPONSIBILITY TO	02/2022 HV Drawing No.: PH4407-2(rev.2)
CONTACT THIS FIRM TO MAKE ANY NECESSARY COMMENTS OR REVISIONS. ADDITIONAL REVISIONS ARE NOT CONSIDERED PART OF THE DESIGN WORKS AND WILL BE CONSIDERED AS AN ADDITIONAL COST.	p:\autocad drawings\hydrogeology\ph44xx\ph4407 - dymech engineering - 1353 coker st\ph4407-2(rev.1).dwg

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

Permit Part 8 – Sewage System Ontario Building Code

Do Not Comp Permit No	22-059
Permit No	22 000
Revision No	
Date	
Related Applic	ation

nspected & Recommended by:	Owner: DYMECH ENGINEERING INC							
nspection Date & Time: MARCH 9, 2022			_ Weather:		UNNY			
Sivic Address:			Glou	icester:				
umber of bedrooms:			fixture units:					
nished floor area:						L/da		
pretreatment tank	9400	_ L	weigh bills for		🗇 yes	no		
ffluent filter	N/A		grain size analy:	sis required	🗖 yes	no		
ump rateAS PER WATER	RLOO BIOFILTER	_ L/15 MIN	site to be scarifi		🗖 yes	no		
eatment unit Waterloo Biofil		_	clay seal inspec		□ yes	no		
number of units 1		_	mantle required		D yes	no		
			sub-grade inspe		yes 🖉	no		
trench configuration Dispersal Bed BMEC Type A	pe B 78 78	m ²	pipe weight of fil loading area	ase ter media a olding Tank		kg		
weight of sand		kg A. z. d.	~	Permit Date: _		17202		

NOTE: For further details, refer to corresponding application.