October 27, 2023



PH4334-LET.01

Myers Automotive Group 1200 Baseline Road, Unit 2 Ottawa, Ontario K2C 0A6

Attention: **Geoff Publow**

Consulting Engineers

9 Auriga Drive Ottawa, Ontario K2E 7T9 **Tel: (613) 226-7381**

Geotechnical Engineering Environmental Engineering Hydrogeology Materials Testing Building Science Rural Development Design Retaining Wall Design Noise and Vibration Studies

patersongroup.ca

Subject: Sewage System Impact Assessment (Terrain Analysis) Proposed Commercial Development 1468 Bankfield Road, Ottawa, Ontario

Dear Geoff Publow,

Further to your request, Paterson Group (Paterson) has prepared a Sewage System Impact Assessment (Terrain Analysis) in support of the rezoning and site plan application for the proposed commercial development at the aforementioned site.

Introduction

Paterson was retained by Myers Automotive Group to conduct a Sewage System Impact Assessment in support of a rezoning and site plan application for the proposed commercial development to be located at the Subject Site. The Subject Site consists of the following municipal addresses:

- □ 1450 Bankfield Road
- □ 1454 Bankfield Road
- □ 1458 Bankfield Road
- □ 1464 Bankfield Road
- □ 1468 Bankfield Road
- □ 5479 Elijah Court
- 5485 Elijah Court

Please refer to the Key Plan attached for the approximate Site location. The subject site has historically been used for a number of activities, including but not limited to:

- □ Automotive repair garage
- Service garages for heavy equipment non-road vehicles
- □ 7 sewage systems (one per dwelling)



The proposed rezoning application is to rezone the above noted properties to allow for the use of a new automotive dealership.

City of Ottawa Rezoning and Site Plan applications

A Terrain Analysis completed as part of a rezoning application is generally completed using a conventional sewage system design. The City accepts the use of tertiary treatment technology, including the use of nitrate reduction (provided that the system is NSF certified) as part of a Terrain Analysis completed in support of a site plan application.

Tertiary treatment systems are designed to treat effluent to higher levels than conventional sewage systems. Tertiary treatment systems require annual maintenance inspections to be submitted to the Ottawa Septic System Office (OSSO), which is run through the Rideau Valley Conservation Authority (RVCA). The annual maintenance inspections / regulatory review are designed to ensure qualified persons inspect and repair (when needed) systems. The qualified person submits a confirmation to the OSSO or compliance enforcement actions will be implemented.

This Terrain Analysis has been completed using tertiary treatment technology with nitrate reduction (NSF 245 certified) as an additional method of further reducing potential impacts on the Kars Esker.

Kars Esker

The subject Site is mapped to be located on top of the Kars Esker. The Kars Esker plays an important role in local groundwater supply. The primary concern regarding the Kars Esker is the protection of the esker as it relates to groundwater quality and quantity.

The Mud Creek Subwatershed Study (MCSS) completed by the City of Ottawa states that the significant groundwater recharge area (including the feature known as the Kars Esker) should be appropriately protected during the development review process. Additionally the subject site is in an area mapped to be a Highly Vulnerable Aquifer (HVA).

The MCSS states "Development and site alteration should be limited within and adjacent to the significant groundwater features already identified through this study and previous analyses undertaken to support existing development. When development cannot be avoided in areas of groundwater sensitivity, it is recommended that pre-development recharge areas should be maintained through the completion of a water balance."

Furthermore: Additional measures to protect groundwater resources are recommended within the Significant Groundwater Recharge Area such as:

Avoid infiltrating poor quality runoff from paved surfaces such as parking lots and roads without pre-treatment. Promote infiltration from clean water sources, such as rooftops and downspouts.



- Use Low Impact Development and Best Management Practices for stormwater management quality and quantity control, by stormwater retrofit opportunities and upgrades.
- Reduce the impact of winter salt application; consider updates to salt management plans, and education and outreach.

Due to the infiltration potential of the Kars Esker, it is anticipated that all of the onsite stormwater will be re-infiltrated onsite. Stormwater design and requirements are not addressed as part of this report, however will be treated appropriately as per the MCSS recommendations.

The proposed development will use modern equipment and technology to reduce the potential impacts on the Kars Esker as well as significantly reduce the sewage load which is currently being applied to the Site. The client is proposing to rezone the combined property which currently has an automotive repair garage, a service garage for non-road vehicles and seven (7) individual sewage systems to allow for a modern automotive dealership.

It is proposed that the sewage load will be reduced from 7 residential / commercial sewage systems to 1 commercial sewage system. A typical sewage system under the Ottawa Building Code (OBC) for a 4-bedroom residence with a footprint of 250 m² or less with a fixture count of 30 would have an approximate total daily design sanitary sewage flow (TDDSSF) of 2,500 L/d. Assuming this is the case for the existing dwellings, this means the site currently has approximately 17,500 L/day of sewage effluent being applied to it. The proposed development is anticipated to have a TDDSSF of 3,224 L/day.

The proponent is proposing to use regulated monitoring tools such as an Environmental Compliance Approval (ECA) for the greywater treatment system and the Ottawa Septic System Office (OSSO) annual monitoring program for tertiary treatment systems. These tools will enforce safe practices on the subject site, rather than leave the potentially contaminating current uses in place.

Although a development is being proposed, it is a development which will decrease potential impacts on the groundwater that is entering the Kars Esker.

Hydrogeological Pre-consultation

A Hydrogeological Pre-consultation was completed with a City of Ottawa Hydrogeologist on November 24, 2021. Additional discussions and consultations have been ongoing since the first pre-consultation.



Site Conditions

Property Description

The subject site is situated to the southeast of the intersection of Prince of Wales Drive and Bankfield Road in Ottawa. It is proposed that a commercial development consisting of one automobile dealership with associated infrastructure be constructed on the subject site. The proposed property is to consist of the combination of 1450 Bankfield Road, 1454 Bankfield Road, 1458 Bankfield Road, 1464 Bankfield Road, 1468 Bankfield Road, 5479 Elijah Court and 5485 Elijah Court. The total site area is approximately 1.91 hectares (ha) in area. Currently, the property is occupied by a mix of commercial and residential properties and treed areas.

Surface Conditions

Based on Paterson's review of the available topographic survey information, ground surface at the subject site slopes downward from west to east. Onsite overburden flows are anticipated to be to the southeastern direction. General groundwater flow direction is anticipated to be east towards the Mud Creek Drain which then flows into the Rideau River.

Surrounding Land Uses

The subject site is situated in a rural area which is serviced by private water supplies and private on-site sewage systems. The Site is bordered to the north by Bankfield Road followed by residential properties and agricultural land, to the west by Elijah Court followed by Prince of Wales Drive and then agricultural land, and to the south and east by undeveloped and forested lands.

Geology

Surficial and Bedrock Geology

Paterson reviewed the available geological mapping provided by the Ontario Geological Survey (OGS MRD128) and found it to be generally consistent with the available historical surrounding Water Well Records (WWR). The mapping indicates that a glaciofluvial deposit consisting of river deposits and delta topset facies occupies the entirety of the subject site. The surrounding areas are mapped to show fine-textured glaciomarine deposits consisting of silt and clay to the east and west, and coarse-textured glaciomarine deposits consisting of sand and gravel to the north.

Paterson drilled five (5) boreholes to a maximum depth of 10.5 m below ground surface (bgs) at the subject site between August 13 and 16, 2021 as part of a Geotechnical field program. A dynamic cone penetration test (DCPT) was completed in one of the boreholes (BH5-21) as part of the study and extended to 24.8 m bgs before it encountered refusal. A supplemental Geotechnical field investigation was carried out at



the subject site on July 11, 2022 where four (4) boreholes were advanced to a maximum depth of 9 m bgs.

The subsurface profile was consistent across all of the boreholes and consisted of topsoil and/or fill underlain by a silty sand deposit and/or glacial till. The thickness of the fill is generally only 0.3 to 0.8 m at the northwest portion of the site but increases significantly to a thickness ranging from approximately 4.0 to 6.3 m at boreholes BH 4-21, BH 5-21 and BH 1-22 within the central and southwest portions of the site. A compact, brown silty sand deposit was encountered underlying the topsoil and/or fill materials at all boreholes, with the exception of BH 4-21, BH 5-21 and BH 1-22 where deep fill material was encountered. The silty sand deposit was observed to extend to approximate depths of 2.1 to 4.0 m. The glacial till deposit was encountered underlying the fill material and/or silty sand at depths ranging from about 2.2 to 6.3 m and was generally observed to consist of a compact to very dense, brown silty sand with gravel, cobbles, and boulders.

The results from the boreholes are consistent with the information available from surrounding WWR's and geological mapping. Please refer to the attached Paterson borehole logs for additional details and Paterson's Drawing PH4334-1(rev.04) for the test hole locations.

Available bedrock geological mapping provided by the Ontario Geological Survey (MRD 219) indicates that the bedrock underlying the subject site consists of dolostone within minor quantities of shale and sandstone of the Oxford Formation from the Beekmantown Group. Available overburden thickness mapping shows a drift thickness of 15 to 25 m across the subject site.

Hydrogeology

Based on the topographic relief of the area and available groundwater flow direction mapping, the onsite overburden groundwater flow direction is expected to trend towards the southeast. General groundwater flow direction is anticipated to be east towards the Mud Creek Drain which then flows into the Rideau River.

Hydrogeological Sensitivity

As the site does not have bedrock within 2 m of the ground surface, the site is not considered hydrogeologically sensitive. Any new sewage systems shall be designed in accordance with Part 8 of the Ontario Building Code.

Surrounding Water Well Records

A search of the Ministry of the Environment, Conservation and Parks water well records (WWR) resulted in 23 WWR's within a 500 m radius of the subject site although some of the WWRs are erroneously located or not potable supply wells. The most recent WWR for a potable supply well was completed in 2016. The historical well depths for the domestic wells ranged from 12 m to 48.8 m bgs. All WWR's can be found attached to this report.



Karst Features

The term "karst" refers to a geologic formation characterized by the dissolution of carbonate bedrock, such as limestone or dolostone. In order for karstification to occur, precipitation must be allowed to infiltrate the top of the bedrock to dissolutionally enlarge previously existing joints and bedding planes. Based on available mapping by the Ontario Geological Survey, there is no inferred, potential or known karstification in the subject area.

Theoretical Sewage System and Grey Water Volumes

The theoretical sewage system volumes for the proposed commercial building are calculated using the Ontario Building Code (OBC) section 8.2.1.3; Sewage System Design Flows. The proposed automotive dealership is anticipated to have 40 8-hour employee shifts (or equivalent) and 28 customer visits per day. Based on the aforementioned OBC, the total daily sewage system volumes are as follows:

- □ 40 8-hour employee shifts/day x 75 L per each 8-hour employee shift = 3,000 L/day
- □ 28 customer visits/day x 8 L per customer visit = 224 L/day
- □ Total daily volumes = 3,000 + 224 L/day = 3,224 L/day = 3.2 m³/d

Please note that the OBC sewage system volumes are conservative flows and the actual daily flows are likely to be lower.

In addition to the sewage system volumes, grey water will be produced through car washing (manual wash/spray wash only). Approximately 20 such car washes are anticipated per day at a rate of 182 L/wash. Furthermore, the equivalent of 375 L/day can be assumed from snow melt. The expected daily grey water volumes are calculated as follows:

- □ 20 car washes/day x 182 L/car wash = 3,640 L/day
- $\Box \quad \text{Snow melt} = 375 \text{ L/day}$
- Grey water produced = 3,640 +375 L/day = 4,015 L/day = 4.01 m³/d

Therefore, approximately 4,015 L/day of grey water will be produced. It should be noted that the grey water will be treated prior to discharge and the grey water discharge will be subject to an Environmental Compliance Approval (ECA).

Nitrate Impact Assessment

The proponent is proposing a use for the site that will reduce the current total daily design sanitary sewage flow (TDDSSF) of approximately 17,500 L/day to a TDDSSF of 3,224 L/day. Additionally, they are proposing to remove the existing automotive repair garage and the service garage for non-road vehicles to replace them with a modern automotive dealership. As part of the rezoning process, the City of Ottawa does not



typically allow the use of tertiary treatment systems to support the application. As a tertiary treatment system requires annual monitoring by the OSSO, and allows for advanced treatment of sewage effluent, a tertiary treatment system is being proposed for the Subject Site. The mandatory monitoring required on tertiary treatment systems by the OSSO ensures that the system is properly maintained and replaced when required, whereas there is no mandatory monitoring on a conventional sewage system.

The primary concern regarding the Kars Esker is the protection of the esker as it relates to groundwater quality and quantity. A tertiary treatment system would require annual monitoring which would be an additional level of protection from a groundwater quality perspective. A tertiary treatment system combined with the proposed lower flow volumes, would further reduce the potential risk of contamination to the Kars Esker. Due to the infiltration potential of the Kars Esker, it is anticipated that all of the onsite stormwater will be re-infiltrated onsite, which will protect the esker as it relates to groundwater quantity.

Grey water from the hand car washes will be treated to appropriate levels and re-infiltrated into the Kars Esker. The grey water discharge will be subject to an Environmental Compliance Approval (ECA) to ensure it meets the target quality goals.

In order to demonstrate the viability and sustainability aspects of private servicing on the subject site, a Nitrate Impact Assessment was completed using the above noted parameters. As tertiary treatment technology is being proposed to lower the potential risk to the Kars Esker, the use of nitrate reduction technology was included.

Predictive Nitrate Impact Assessment

In order to demonstrate that private services would adequately support the proposed site plan application, a Predictive Nitrate Impact Assessment (NIA) for the subject site was completed. The values shown in the Predictive NIA attached to this report are summarized below.

Site area	1.9 ha
Impervious area (%)	75 %
Daily sewage flow	3.2 m ³ /d
Concentration of nitrate in effluent with treatment (Value based on nitrate reduction system (NSF 245 certified system) with	20 mg/L n 50% nitrate reduction)
Surplus Water (The surplus water value was estimated based on Environment Canada values with a soil type comprised of a sandy loam (Urban lawns / Shallow Crops) and anthropogenic sources.)	361 mm/yr Climate Office w Rooted
 Combined infiltration factor based on: Topography infiltration factor 	0.70 0.20



•	Soil texture infiltration factor	0.40
•	Cover infiltration factor	0.10

- Cover infiltration factor
- □ Flow entering the system from across the upgradient area: 4.01 m³/day (From the treated wash water (greywater) to be covered under a ECA)

The topography infiltration factor of 0.20 is based upon a generally rolling land with an average slope of 2.8 m to 3.8 m/km. The soil texture infiltration factor was based upon an "open sandy loam" with a value of 0.4 which is a reasonable generalization based upon the site investigations and available geological mapping. The "cover infiltration factor" was calculated at 0.10 based upon a cultivated land type cover.

The calculation for a conventional sewage system (system without nitrate reduction) results in a predicted nitrate concentration of 19.67 mg/L nitrate for the subject site, using a value of 40 mg/L nitrate concentration within the effluent. This value was based upon a daily sewage flow of 3,200 L/day. It is expected that the actual usage should be lower. The inclusion of nitrate reduction technology (50 % nitrogen reduction in the of the effluent nitrate) would result in a nitrate concentration of 9.83 mg/L at the property boundary. Additional re-infiltration of the treated grey water (wash water) reduces the nitrate concentration to 6.09 mg/L, which is below the limit of 10 mg/L.

Based on the results of the predictive NIA, it is our opinion that the property can adequately support the proposed site plan application without having an adverse impact on the underlying bedrock aguifer, provided that an NSF 245 certified nitrate reduction system or similar technology is used in the sewage system. Re-infiltration of the treated greywater and stormwater will further reduce the potential impacts related to the onsite sewage system.

Development Considerations

The onsite sewage disposal needs can be accommodated by a conventional Class 4 Sewage System utilizing tertiary treatment technologies, as per OBC criteria. Standard Class 4 systems with tertiary treatment typically include a treatment unit between the septic tank and the leaching bed. Tertiary sewage treatment technologies are accepted in the OBC. It should be noted that tertiary treatment systems require a maintenance contract to perform annual inspections by a qualified person.



Conclusions

The following statements and conclusions are based upon a review of the available information and analysis contained within this letter report:

- □ The subject site is generally suitable for the proposed development based upon its location, topography, and surrounding land uses.
- □ The predictive nitrate concentration at the property boundary was calculated to be 6.09 mg/L when 50% nitrate reduction and re-infiltration of the wash water (greywater) is considered, which is below the threshold of 10 mg/L at the property boundary.
- Onsite sewage disposal needs can be accommodated with a Class 4 Sewage System utilizing tertiary treatment technologies.
- The construction of an onsite sewage system is not anticipated to affect the performance or water quality associated with any nearby drilled wells, contingent upon the onsite sewage system being designed in accordance with Part 8 of the Ontario Building Code (i.e properly sized sewage system and conforming to all separation distances).
- □ The subject site is sufficient in size to accommodate a new sewage system and meet all the regulatory separation criteria.
- A Sewage System permit and Building Permit need to be issued prior to the commencement of construction on any future building(s) or any new sewage system(s).



Based on the results of the review, it is our opinion that the site plan application for the proposed commercial development can be supported as per the results of the nitrate impact assessment should an approved 50% nitrate reduction technology be used.

We trust that the current submission satisfies your immediate requirements.

Best Regards,

Paterson Group Inc.

Alexander Schopf, PhD, EIT

Michael S. Killam, P.Eng

Attachments:

- Paterson Key Plan
- Paterson Test Hole Logs
- Predictive Nitrate Impact Assessment Calculation
- □ MECP Water Well Records (Surrounding 500 m radius)
- D PH4334-1- Preliminary Site Servicing Plan



Erik Ardley, P.Geo





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FIGURE 1

KEY PLAN



SOIL PROFILE AND TEST DATA

Geotechnical Investigation Proposed Commercial Development 1464 & 1468 Bankfield Rd., Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM	Elevations are referenced to a geodetic datum.

FILE NO. PG5937

REMARKS												
BORINGS BY CME-55 Low Clearance	Drill			D	DATE	August 13	3, 2021		HOLE	BH 1	-21	
SOIL DESCRIPTION	LOT	SAMPLE DEPTH ELEV.				Pen. Re	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone					
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FILL: Crushed stone with gravel0.46		X AU	1 2				-101.11			· · · · · · · · · · · · · · · · · · ·		111111
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		ss	4	58	22	2-	-99.11					111111111
Compact, brown SILTY SAND, trace gravel.		ss	5	58	29							taba da t
		ss	6	50	29	3-	-98.11					111111111
3.96		ss	7	58	47	4-	-97.11					10.010.010
		ss	8	58	31	5-	-96.11					hinda.
		ss	9	58	26	6-	-95.11					1.11.11.11.11
GLACIAL TILL: Compact to dense,		ss	10	50	50+							
and boulders		ss	11	42	50	7-	-94.11					
		ss	12	50	20	8-	-93.11					
- running sand encountered at 9.8m		ss	13	67	28	9-	-92.11					
depth		ss	14	75	19	10	01 11					
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(GWL @ 8.95m - August 25, 2021)												
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SOIL PROFILE AND TEST DATA

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REMARKS

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		ss	2	42	6	1-	-98.36			· · · · · · · ·		······	
SAND.		ss	3	58	15	2-	-07 36		· · · · · · · ·				
 very dense, with gravel by 2.3m depth 		ss	4	58	50+	2	-97.30		· · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
2.97		ss	5	50	50+	3-	-96.36						
		ss	6	75	19	4-	-95.36						
		ss	7	75	50+	5-	-94.36		· · · · · · ·				
GLACIAL TILL : Dense, brown silty sand with gravel, cobbles and boulders		ss	8	33	50+	6-	-93.36						
		ss	9	0	50+								
		ss	10	75	50+	7-	-92.36				· · · · · · · · · · · · · · · · · · ·		
- running sand encountered at 7.6m depth		ss	11	67	24	8-	-91.36		· · · · · · ·				
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SOIL PROFILE AND TEST DATA

Geotechnical Investigation Proposed Commercial Development 1464 & 1468 Bankfield Rd., Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

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SILTY SAND. 2.13		ss	4	4	50+	2-	-97.19		
		ss	5	75	40				
		ss	6	13	50+	3-	-96.19		
		ss	7	33	44	4-	-95.19		
GLACIAL TILL: Compact to dense,		ss	8	67	21	5-	-94.19		
and boulders		ss	9	67	18	6-	-93.19		
		ss	10	75	19				
- running sand encountered from 7.5		ss	11	83	8	7-	-92.19		
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SOIL PROFILE AND TEST DATA

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FILL: Brown silty sand trace clay, 0.31 gravel and asphaltic concrete.		au 🖉	1				55.0Z						
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FILL: Brown to grev silty clay with		ss	3	42	8	2-	-97.62						
sand, trace gravel, cobbles, boulders, asphaltic concrete		ss	4	42	6		00.00						
- trace wood and brick by 3.0m depth		ss	5	33	5	3-	-96.62						
						4-	-95.62				· · · · · · · · · · · · · · · · · · ·		
5.18		ss	6	4	50+	5-	-94.62				· · · · · · · · · · · · · · · · · · ·		
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GLACIAL TILL: Very dense, brown silty sand with gravel, cobbles and 6.71 boulders End of Borehole	×××× · ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	ss	8	83	50+	6-	-93.62						
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SOIL PROFILE AND TEST DATA

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DATUM	Elevations are referenced to a geodetic datum.

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BORINGS BY CME-55 Low Clearance	Drill	1		D	ATE /	August 13	3, 2021			BH 5-	-21
SOIL DESCRIPTION	РГОТ	SAMPLE			DEPTH	ELEV.	Pen. R • 5	esist. Bl 0 mm Di	n		
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FILL: Brown silty sand with clay, crushed stone and gravel 0.6	1	≃ AU 	1			0-	-101.43			· · · · · · · · · · · · · · · · · · ·	
FILL : Brown silty clay with sand,		ss	2	50	9	1-	-100.43				
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		ss	5	21	4						
FILL : Brown silty sand with clay, trace gravel, wood and asphaltic concrete						4-	-97.43	·····			
		ss	6	75	10	5-	-96.43				
<u>6.2</u>	5					6-	-95.43				
GLACIAL TILL: Loose, brown silty sand with gravel, cobbles and baulders		∦ ss V ss	7	0	9	7-	-94.43				
Dynamic Cone Penetration Test	7 ^^^^	85	8	42	8						
commenced at 7.47m depth.						8-	-93.43				
						9-	-92.43			>	
						10-	-91.43				
						11-	-90.43		,		
						12-	-89.43				
						13-	-88.43				·····
						14-	-87.43	20	40	60 80	100
								Shea	ar Streng	ith (kPa) ⊾ Remoulde	ed

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Proposed Commercial Development 1464 & 1468 Bankfield Rd., Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM	Elevations are referenced to a geodetic datum.

REMARKS

FILE NO.	PG5937

HOLE NU BH 5-21 BORINGS BY CME-55 Low Clearance Drill DATE August 13, 2021 SAMPLE Pen. Resist. Blows/0.3m STRATA PLOT DEPTH ELEV. Piezometer Construction SOIL DESCRIPTION 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER ТҮРЕ o/0 Water Content % Ο **GROUND SURFACE** 80 20 40 60 14+87.43 15+86.43 16+85.43 17+84.43 18+83.43 19+82.43 20+81.43 21 + 80.4322+79.43 23+78.43 24 + 77.43<u>24.79</u> End of Borehole Practical DCPT refusal at 24.79m depth. (Piezometer blocked and dry - August 25, 2021) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Proposed Commercial Development 1450, 1458, 1464 & 1468 Bankfield Rd., Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic FILE NO. PG5937 REMARKS HOLE NO. BORINGS BY CME-55 Low Clearance Drill BH 1-22 DATE July 11, 2022 SAMPLE Pen. Resist. Blows/0.3m PLOT Monitoring Well Construction DEPTH ELEV. SOIL DESCRIPTION 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER TYPE o/0 \cap Water Content % **GROUND SURFACE** 80 20 40 60 0+96.89TOPSOIL 0.15 AU 1 1 + 95.89SS 2 75 22 FILL: Browns ilty sand, some clay, SS 3 67 16 gravel, occasional cobbles, trace 2 + 94.89asphalt, glass and crushed stone SS 4 58 12 3+93.89SS 5 568 28 3.96 4+92.89 SS 6 75 19 SS 7 83 13 5+91.89**GLACIAL TILL:** Compact to very dense, brown silty sand to sand with gravel, occasional cobbles SS 8 75 44 6+90.89- some running sand by 5.8m depth. SS 9 75 32 7+89.89 SS 10 83 34 SS 11 92 65 8+88.89 8.30 Loose, grey SILTY SAND SS 12 58 6 8.99 End of Borehole (GWL @ 4.23m - July 15, 2022) 40 60 80 100 20 Shear Strength (kPa) Undisturbed △ Remoulded

SOIL PROFILE AND TEST DATA

Geotechnical Investigation
 Proposed Commercial Development
 1450, 1458, 1464 & 1468 Bankfield Rd., Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

REMARKS

DATUM

PG5937	
HOLE NO	

FILE NO.

BORINGS BY CME-55 Low Clearance I	Drill	ill DATE July 11, 2						HOLE NO. BH 2-22			
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone			
	STRATA I	ТҮРЕ	NUMBER	% ECOVERY	N VALUE or RQD	(m)	(m)	Water Content % Vouitoring			
				щ	-	0-	-95.76				
0.38		Šau ∏	1								
Compact to dense, brown SILTY SAND, some gravel		ss 7	2	75	13	1-	-94.76				
		ss	3	83	34	2-	-93.76				
2.97		ss	4	67	29	3-	-92.76				
		ss	5	75	27						
silty sand to sand, some gravel, occasional cobbles		ss	6	75	15	4-	-91.76				
- some running sand by 4.3m depth		ss	7	83	19	5-	-90.76				
		ss	8	92	28	6-	-89 76				
<u>6.71</u>		ss	9	100	18	0	00.70				
End of Borehole											
(GWL @ 3.01m - July 15, 2022)											
								20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded			

SOIL PROFILE AND TEST DATA

Geotechnical Investigation
 Proposed Commercial Development
 1450, 1458, 1464 & 1468 Bankfield Rd., Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

REMARKS

DATUM

PG5937 HOLE NO.

FILE NO.

BORINGS BY CME-55 Low Clearance I	Drill	DATE July 11, 2			July 11, 2	022	BH 3-22		
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone	stion
	TRATA	ТҮРЕ	UMBER	% COVERY	VALUE r ROD	(ጠ)	(m)	○ Water Content %	Construc
GROUND SURFACE	0		Z	RE	z ^o		05.00	20 40 60 80	
TOPSOIL 0.30		AU	1			0-	-95.30		
Compact, brown SILTY SAND, some gravel, occasional cobbles		ss	2	50	17	1-	-94.30		
2.21		ss	3	75	19	2-	-93.30		
CLACIAL THE Vory dopso to		ss	4	83	54	3-	-92.30		
compact, brown silty sand to sand, some gravel, occasional cobbles		ss	5	100	31				
- some running sand by 4.1m depth		ss	6	92	21	4-	-91.30		
5.18 End of Borehole		∬ ss	7	100	25	5-	-90.30		
(GWL @ 2.58m - July 15, 2022)								20 40 60 80 100 Shear Strength (kPa)	
								20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded	

SOIL PROFILE AND TEST DATA

40

Shear Strength (kPa)

20

▲ Undisturbed

60

80

 \triangle Remoulded

100

Geotechnical Investigation Proposed Commercial Development

9 Auriga Drive, Ottawa, Ontario K2E 7T9

9 Auriga Drive, Ollawa, Onlario NZE / 19					14	50, 1458,	1464 & 1	468 Bank	ield Rd., Ottawa, Ont	ario
DATUM Geodetic									FILE NO.	
REMARKS									PG5937	
BORINGS BY CME-55 Low Clearance	Drill			D	ATE 、	July 11, 2	022		BH 4-22	
			SAM	IPLE		DEPTH	ELEV.	Pen. R	esist. Blows/0.3m	er on
SOIL DESCRIPTION	LATA P.	L E	IBER	% VERY	ALUE RQD	(m)	(m)		/ator Contont %	szomete
GROUND SUBFACE	STE	f	NUN	RECO	N OL					
TOPSOIL 0.20						0-	-95.17			
0.30		[™] AU	1							
Compact to dense, brown SILTY SAND, some gravel		ss	2	75	18	1-	-94.17			
2.21		ss	3	67	46	2-	-93.17			
		ss	4	75	23					
GLACIAL TILL: Compact, brown silty sand to sand, some gravel, occasional cobbles		ss	5	58	16	3-	-92.17			
- some running sand by 4.0m depth		ss	6	67	22	4-	-91.17			
5.18		ss	7	67		5-	-90.17			
(GWL @ 3.18m - July 15, 2022)										

patersongroup Myers Automotive Group - Bankfield Project

PREDICTIVE NITRATE IM	IPACT	ASSESS	EMENT
Infiltration Factors			
Topography		0.20	
Soil		0.40	
Cover		0.10	
Total		0.70	
Site Characteristics			
Area of Site :		19077	m²
Total of roof areas:		2130	m²
Total area of paved driveway areas:		12170	m²
Roof + paved driveway areas		14300	m²
Impervious Area		14300	m²
Percent Impervious Area =		75	%
Infiltration Area =		4777	m²
Septic Effluent			
Concentration of Effluent (Cs) =		20	mg/L
Daily Sewage Flow (Qs)=		3.2	m ³
See Notes below.			
Infiltration Calculation			
Nitrate concentration in precipitation $(C_i) =$		0	mg/L
Surplus Water (Environment Canada)		361	mm/yr
Factored Water Surplus =		253	mm/yr
Infiltration % due to stormwater management measures		-	%
Infiltration rate from stormwater management measures =		0	mm/yr
Infiltration Flow Entering the System (Q _i) =		3	m³/day
Mass Balance Model (MOEE, 1995)			
$C_{T} = (Q_{b}C_{b}+Q_{e}C_{e}+Q_{i}C_{i})/(Q_{b}+Q_{e}+Q_{i}) = 0$	Cumulative N	Nitrate Concentration	n -
Q_b = flow entering the system across the upgradient area		4.01	m³/day
C_{b} = background nitrate concentration		0	mg/L
Q_e = flow entering the system from the septic drainfield		3.2	m³/day
C_e = concentration of nitrates in the septic effluent		20	mg/L
Q_i = flow entering the system from infiltration		3	m³/day
C_i = Concentration of nitrates in the infiltrate	•	0	mg/L
	С _Т =	6.09	mg/L
Estimate Number of Lots		1	lots
Notes: Site characteristic values were measured as approximate volume was calculted by Paterson Group as a preliminary design	values from t flow.	the available site pla	n. Daily Sewage Flow

UTM $18i^{2}$ $4i4i318ic$ $19i^{R}$ $5i01017i21$ Elev. $19i^{R}$ 013301 Basin 125111	2.10 ^{]E} 36 N The W Nater	ater-well D Departmen	ARIO Driller t of	s Act, 1954 Mines Recor	ACTORIAN PARA	N.9 6374
County or Territorial District.	aulito	Tow	nship n T Ada	, V illage, Town or Village, Town or C dress	eny North ity) ity	Jower.
(day)	(month)	(year)				
Pipe and Casing	; Record		u		Pumping Test	
Casing diameter(s) Length(s) Type of screen Length of screen			Sta Pui Pui Dui	tic level	<u>Ч.Р.</u> Р. С. Ц. L.	
Well Log					Water Record	
Overburden and Bedrock Record	From ft.	To ft.		Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Clay		22'	·			·····
Jund	22'	30'				
- quand	5.0	60		\$0'	4 5·1	Jush.
For what purpose (s) is the water Is water clear or cloudy?	to be used?		I	Loc In diagram below road and lot line.	ation of Well show distances of Indicate north	well from by arrow.
Name of Driller	oregoing are true. e.a.g. f.c ngure of License	 	200	Mepran unty Rd.		N R R R R R R R R R R R R R R R R R R R

n		entrite and	51	RECEVE	
UTM 1/18/2 141413 131	310 E 316	ug T	X	15	Nº \$575
9 R 5001721	210 N				
Elev. 19 1 0330	The W	ONTA ater-well Dr	rillers Act 1954	l - ARGUN (SL) & Suit (SL) - BALLES Management	
$Basin \begin{bmatrix} 2 & 5 \\ 1 & 1 \end{bmatrix}$]	Department	of Mines		
•	Water	-We	11 Reco	ord	• \
					1 21
County or Territorial District	allon	Town	nship, Village, Town	or City Marth	Jam
			Address	ano tick	
(dav)	(month)	(vear)			
Pine and Casin	g Record			Pumning Test	<u> </u>
				/	<u> </u>
Casing diameter (s)?	•••••••		Static level	225-4PR	/
Type of screen			Pumping rate Pumping level	15-1	
Length of screen			Duration of test	12.	
well Log				water kecord	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Clay	1 -	20'			
Land	20 '	45.	<u> </u>		
Grand	48	4-5-	-		
			3-5-1	\$15-7	fresh
For what purpose(s) is the water	to be used?			Location of Well	ſ ₂ `
In motor along on alondar?	lean i		In diagram b	elow show distances of	f well from
Is water clear or cloudy	n hillside?		road and lot	line. Indicate north	by arrow.
hillrid	(N 1 1)	
Drilling firm	eagh	12.			<i>a</i>
Address	w word	ac ,	neurontimp		.~
Name of Driller	ragher		Theparticip		21.1
Address				Pty a.t.	
				6. 1."	so 1
Licence Number	 foregoing		M. Marin	103	
statements of fact	are true.		Tup	÷	
2 110200			1		1 88/
Date	lignature of Licens	' ee			/ <u>k</u> /
					/نمر
					¥/

UTM $\frac{1}{18}$ $\frac{14}{43}$ $\frac{18}{13}$ $\frac{14}{43}$ $\frac{18}{13}$ $\frac{14}{14}$ $\frac{19}{18}$ $\frac{500071117}{1500}$ Elev. $\frac{19}{19}$ $\frac{103300}{1300}$	<u>اکا</u> ۲۱(۱ <u>D</u> N The W	ater-well Dr	ARIO rillers Act, 1954	CROUAD WAT 15 1077	ER GRAVE AN NO 6580 1958 MARER 2 CREASE AN
Basin 25 1 L	Vater ² arlitor	Department	of Mines 11 Recor ship, Village, Town or in Village, Town or (d City	Inve
_			Address	ng (the	•••••
(day)	(month)	(year)			
Pipe and Casing	Record			Pumping Test	
Casing diameter(s)	<u>7</u> F		Static level Pumping rate Pumping level Duration of test	23 500 J-P 30 ft 4 Jun	<u>+</u> -
Well Log				Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Boldus y sand	σ	18	86	63	Frish
Band	10				
For what purpose(s) is the water Is water gear or cloudy? Is well on upland, in valley, or on	to be used? Hay hillide?		Lo In diagram below road and lot line	ecation of Well show distances of e. Indicate north	f well from by arrow.
Drilling firm A. R. Can Address B. A. S. OT TA MIA Name of Driller Address SAME Licence Number 3.25 I certify that the f statements of fact s Date Oct 23/59 A. R. Sig	$\frac{1}{2} \frac{1}{2} \frac{1}$	R 0 ee		800	To MANOTICK.
Form 5				WATTER	SONG GOR'S

F

	31(249			e
UTM 118 2 41413181010 E	ſ	1.E.T		15	Nº 6585/
5 R 1 5 0 0 7 12110	N			GROUND WA	TER BRANCH
Elev. 5 . 931310 The Ontari	o Water Resc	ources Comm	nission Act. 195		
Basin 25/ 11				ANTADIO	1960
WATH	ER WI	ELL J	RECORI	RESOURCES CO	WATER DMMISSION
County or District Carleton		Township,	Village, Town or	City	6 OWER
Con. A Lot		Date com	pleted day	u 3/6	year)
		ress	V	-	
			Pui	mping Test	
Inside diameter of casing		Static le	vel	32'	
Total length of casing 46		Test-pu	mping rate 5	- GPM	G.P.M.
Type of screen		. Pumpin	g level 33	-1	
Length of screen		. Duratio	n of test pumpin	g J his	1
Depth to top of screen		. Water o	clear or cloudy at	end of test	ear
Diameter of finished hole		Recomm	nended pumping	rate 5	GP M С.Р.М.
		with	pumping level o	of <u> </u>	
Well Log			We	ater Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
- Rellin	0	90		-	
Side Boldins	20	46-	45	23	fresh
			-		
	-		-		
			-		_
			-		<u> </u>
	-				
	-				-
			-		
	-			_	
		<u> </u>			
For what purpose(s) is the water to be used?	,		Loca	ition of Well	
Household			In diagram below	v show distances	of well from
Is well on upland, in valley, or on hillside?			road and lot line	e. Indicate nortl	1 by arrow.
Hollsede			SAH		
Drilling Firm R. B. Sufrem	-		PIEPEn		1
Address 1014 Donal	Eland	···	0143		
Mawa			LUTI		
Licence Number 565			a a secondaria da a constructiva da a construcción da a construcción da a construcción da a construcción da a La construcción da a	;1 K 7	TRDJ
Name of Driller	qe s			1 . 60) [#]
Address \$2/ Gilmour	Mar	era		115-34	
Date Joune 20/6	D _			170'	
V ABSM	kin				
(Signature of Licensed Drilling Contracto	r)			//	
*					
Form 5				1	

Ch.(1.58

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		The Ontario Water Reso	ources Comr	nission Act	316/4
Water management in	Ontario 1. PRINT ONLY IN SPA 2. CHECK X CORREC	ACES PROVIDED	11510	MUNICIP. 1.5004 151004 14 14 14 14 14 14 14 14 14 1	CON. 15 10 10 10 10 10 10 10 10 10 10
CARLE	TON	TOWNSHIP. BOROUGH, CITY, TOWN, VILLAGE	ER.	A A A A A A A A A A A A A A A A A A A	001
		O TILLBO	URIA	YE, OTTAWA	DAY 5 NO 5 YR 70
		NG 7 260		RC. BASIN CODE	
\nearrow	LO	G OF OVERBURDEN AND BEDR	OCK MATERIA	ALS (SEE INSTRUCTIONS)	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
	GRAVEL	SAND			0 76
GREY	LIMESTONE			HARD	16 81
/					
					*
31 007	16 11/9 1 208				
32			43	54 54 SIZE(5) OF OPENING 31	65 75 1-33 DIAMETER 34-38 LENGTH 31
41 WAT		51 CASING & OPEN HOL	E RECORD	U (SLOT NO.)	
10-13 1		INCHES FEEL	ROM TO 13-16		OF SCREEN
15-18 1	FRESH 3 SULPHUR	COC 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	0 76	61 PLUGGING &	SEALING RECORD
20-23	GRESH 3 SULPHUR	06 18 1 STEEL 19 06 2 GALVANIZED	0087	DEPTH SET AT - FEET FROM TO MAT	ERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.
25-28 1	SALTY 4 MINERAL	3 CONCRETE 4 OPEN HOLE 24-25 1 □ STEEL 26	26 - FZ 27-30	15 30 CB	MENT GROUT
30-33 1		2 GALVANIZED 3 CONCRETE		26-29 30-33 80	
PUMPING TEST M	ETHOD 10 PUMPING RATE	11-14 DURATION OF PUMPING] [LOCATION O	F WELL
	2 BAILER 00	205 GPM	- 1N	DIAGRAM BELOW SHOW DISTANCES C T LINE. INDICATE NORTH BY ARROW	F WELL FROM ROAD AND
LEVEL	END OF PUMPING 21 22-24 15 MINUTES 26-	R LEVELS DURING 2 RECOVERY 30 MINUTES 45 MINUTES 60 MINUTES 28 29-31 32-34 53-33	7	No	
020 FEE	TO45 FEET 030 FEET		r l	2	
GIVE RATE	GPM.			A.	
C RECOMMENDED P	W DEEP SETTING	050 FEET RATE 0005 GPM		WH I	
50-53 _0_0	<u>0.2</u> GPM./FT. SPECII	FIC CAPACITY			
FINAL STATUS	¹ WATER SUPPLY ² OBSERVATION WE	5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED, POOR QUALITY 7 1 UNFINISHED		321- 82	
OF WELL	4 RECHARGE WELL		4	× 20 101 -	
WATER		6 MUNICIPAL 7 PUBLIC SUPPLY			> N
USE (8 COOLING OR AIR CONDITIONING 9 O NOT USED			
METHOD	57 1 CABLE TOOL	6 🗆 BORING TIONAL) 7 🗆 DIAMOND			
OF DRILLING	³ ROTARY (REVERSI ⁴ ROTARY (AIR)				
NAME OF WELL		LICENCE NUMBER		58 CONTRACTOR 59-62 1	
	AN WATER	SUPPLY AD, 3504	DATE OF INS	PECTION INSPECTOR	280570
V /532	RAVENA	VE, OTTAWA3.			5 5 Mine
Z La G	IBBONS				
O SIGNATURE OF	CONTRACTOB	DAY 7 MO 5 YR7L	у що		a
	COPY M				

$\mathbf{M} 1 2 2 4 4 5 8 0 0 \mathbf{E}$	and the	4 4 g			5 No	588/3
9 R 5101017 21610 N	Ę			RECE	VED	
$e_{\mathbf{W}_{\mathbf{S}}} = \begin{bmatrix} 9 \\ R \end{bmatrix} \begin{bmatrix} 0 \\ 3 \\ 3 \\ 4 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \\ 4 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \\ 4 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \end{bmatrix} $	01	NTARIO		A10 0	1954	* \
single = TK	The Well	l Drillers .	Act	GEGLOGICAL		
ot - l. Departm	nent of Min	ies, Provin	ice of Ont	tario	OI LILL LI	
Wate	r W	ell	Rec	ord		
P 1 F		ip, Vil	age, Town	ror City. M.e.	eran	
		Town	or City)	View		
Date Completed	Cost of W	ell (excludi	ng pump).	••••••••••••••••••		
Pipe and Casing Record		Pumping Test				
Casing diameter (s)	Da	ate	cune.	<i>.</i>	••••••	
Length(s) of casing(s)	Sta	atic level Imping leve		0		• • • • • • • • • • •
Length of screen	Pu	imping rate		300 G.P.H.	••••••	· · · · · · · · · · · · ·
Distance from top of screen to ground level	Dı	uration of t	est	kn :	••••	
Is well a gravel-wall type:	Di	stance from	n cylinder	or dowls to ground	level	•••••
	wate	r Kecora				
Quality (hard soft contains iron sulphur etc.)	hard		• • • • • • • • • • •	Depth(s) to Water Horizon(s)	Kind of Water	No. of F Water R
Appearance (clear, cloudy, coloured)	ear		· · · · · · · · · · · · · · · · · · ·		100d.	40'
	• •	/				
For what purpose(s) is the water to be used?	resid.	inter			/	
For what purpose(s) is the water to be used?	resid.	inter	<u> </u>	· · ·	/	_
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination?	nation?	enter	<u> </u>	···		
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has	nation?	of water		··· 6	/	
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log	nation?	of water			tion of Well	
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record	nation?	of water	To ft.		tion of Well	an
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record	nation?	From 0 ft.	To ft. 60'		tion of Well elow show dist ad and lot lir	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record	nation?	From 0 ft.	To ft.		tion of Well elow show dist ad and lot lir by arrow.	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record Play Junt	nation?	Entra of water From 0 ft. / /	To ft. 20'	In diagram b well from ro dicate north	tion of Well elow show dist ad and lot lir by arrow.	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record Play June	nation?	From 0 ft. / 6 0 '	To ft. 60' 70'	In diagram b well from ro dicate north	tion of Well elow show dist ad and lot lir by arrow.	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record Play Junt	nation?	From 0 ft. /	To ft. 60' 70'	In diagram b well from ro dicate north	tion of Well elow show dist ad and lot lin by arrow.	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record Play June	nation?	India Second and a sec	To ft. 60' 70'	In diagram b well from ro dicate north	tion of Well elow show dist ad and lot lin by arrow.	an ne.
For what purpose(s) is the water to be used? How far is well from possible source of contamin What is the source of contamination? Enclose a copy of any mineral analysis that has Well Log Overburden and Bedrock Record Play June	nation?	India Second S	To ft. 60' 70'	Loca In diagram b well from ro dicate north	tion of Well elow show dist ad and lot lin by arrow.	an ne.
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GROUND WATER BRANCH 61 UTM | 18 (2) 443171510 E 15 No 5884 MAY 30 1957 5 R 50071300N ONTARIO WATER RESCURCES COMMISSION Elev. 14 R 0330 The Water-well Drillers Act, 1954 Basin 125 Liter **Department** of Mines Water-Well Record Inf Township, Village, Town or City. or Territorial District Garleton h Village, Town or City)..... Iddress 9 Balan St- Ottanta (month) (year) (day) Pipe and Casing Record **Pumping Test** Static level 2 2 Length(s) 65 f Y with 9 of S at work Pumping rate 360 GPH. Type of screen Length of screen Water Record Well Log Depth(s) at which Kind of water No. of feet From (fresh, salty, or sulphur) Overburden and Bedrock Record ater(s) water rises ft. ft. found 25 \mathcal{O}' fresh. 60 5-8 10 80' For what purpose(s) is the water to be used? Location of Well Alonestic In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside?..... Upland Drilling firm Blais had in Ottanta S- Ont-Name of Driller Lev. Vachow Ottawa 5 on I certify that the foregoing statements of fact are true. Date 15 mark 5, 9 y Walk

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15 R 510 171215K	⊃ N			GROUND WATER	BRANCH
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Basin 125	The Wat	er-well D	rillers Act, 1954	DECIGI	357 1750
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Date completed	SEPT	195.7	7 7		
(day)	(month)	(year)		Denning Most	
Pipe and Casing	Record			Pumping Test	
Casing diameter (s)			Static level	$p \in PL$	
Length(s)	Length(s) $N \delta N \delta$				
Length of screen			Duration of test	HOUR	••••••
	<u></u>			Water Record	
			Depth(s)	1	Tind of motor
Overburden and Bedrock Record	From ft.	To ft.	at which water (s) found	No. of feet water rises	(fresh, salty, or sulphur)
BOULDERS + HARD PAN	0	32	50	30	FRESH
HARD GREY LIMESTONE	32	<u> </u>	89	<u> </u>	
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For what purpose(s) is the water t $H_{\alpha \nu} S \mathcal{E}$	to be used?		Lo	ocation of Well	
Is water clear or cloudy?	EAR.		In diagram below road and lot line	v show distances o e. Indicate north	f well from by arrow.
Is well on upland, in valley, or on I	hillside?	ND			\mathcal{I}_{\wedge}
Drilling firm Mahau GHNEY			• · · ·		2 7 1
Address SIMCEWAN AVE	O.IIAWA			·	
Name of Driller W , $GUAY$				K-A-	٥ ٥
Address			NEPERH	<u> </u>	an a
Liconco Number			λγε Ο- Ο ∞ σ αγ		,
I certify that the f	oregoing				2 2 1
statements of fact :	are true.			1 Jus	NATION
Date Mat 1/5.7 Tr. X. M.M.	signey.				
Sig	nacure of License	Ð		THI!	
Form 5					

UTM 1/187 141414101810 E 31649 15 501017131610 The Ontario Water Reso Elev 4 01310151 WATER WEI Basin 25 1 Claim	ources Commi	ssion Act CO ago, Tom		GROUND WATE 15 Nº 0CT 2 ONTARIO W. RESOURCES COM	R BRANCHOT 1961 ATER IMISSION
	Date completed	d	8~	month get.	year)
Casing and Screen Record		//	Pumping	g Test	
Inside diameter of casing 614 " Total length of casing 5.2 Type of screen 14 Length of screen 48 Depth to top of screen 48 Diameter of finished hole 614	Static level Test-pump Pumping I Duration o Water clea Recommen	l evel of test pun or or cloud nded pun	nping ly at end of nping rate	8 15 26' 20 test cle 5'	G.P.M. G.P.M. G.P.M.
Well Low	" with pump	p setting c	of	Wate	r Record
Overburden and Bedrock Record	Fro ft.	m	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay loom gravel	•	5	/5	45'	fresh
For what purpose(s) is the water to be used? Louise Is well on upland, in valley, or on hillside? Drilling or Boring Firm Mel M. Jourghlin	In roa	diagram id and lo	Location below show t line. In	of Well distances of we dicate north by	ell from 3 N arrow. 7 N
Address Licence Number Name of Driller or Borer Address Date Mulle (Signature of Licensed Drilling or Boring Contractor) Form 7 15M Sets 60-5930	30'	7.0	RO # 3	1.2.3'MILEES	MANDINGH
SAVRC LOFT	-			(°.	

UTM $\frac{1}{18}$ $\frac{2}{2}$ $\frac{4}{4}$ $\frac{3}{3}$ $\frac{17}{8}$ $\frac{19}{8}$ $\frac{5000700}{100}$ Elev. $\frac{9}{8}$ $\frac{0320}{120}$ Basin $\frac{125}{1}$ $\frac{1}{1}$ County or Territorial District.	15 E 3.10 ≥ N The We 1 Nater 2 Lio	ater-well D Department - We	APR - 3 G APR - 3 G APR - 3 G ACT, 1954 TARIO ACT, 1955 TARIO ACT, 1955 T	VED 15 BAANCH of INES Cd	Nº 6699
			n Village, Town or Address	City)	
(day)	(month)	(year)			
Pipe and Casing	Record			Pumping Test	۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰
Casing diameter (s) Length (s) Type of screen Length of screen			Static level	* 5	
wen Log	r	1	I Depth (g)	Water Record	· · · · · · · · · · · · · · · · · · ·
Overburden and Bedrock Record	From ft.	To ft.	at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
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Elev. $ \frac{4}{8} = 0 \frac{5}{2} \frac{2}{6} $ Th	ne Well Dri	llers A	ct	GEOL	OGICAL BRAN	CH
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Water	Wol	1 I	Reco	rd		
valei		.1 1			40	
	Townsh	io, Villa		Sim From	A. So.	net
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	of Well I	. C.A.	g pump)			
Date Completed (day) (month) (year)	ost of went (caciudin	g pump/			
Pipe and Casing Record M	ACE GO	LDEN	Pı	umping Test		
Casing diameter(s)	Date.		Lept	3/52	<u>.</u>	
Length(s) of casing(s)	Static	level				
Type of screen	Pumpi	ng level	· 9.8.	A		
Length of screen	Pumpi	ng rate.	·····	Prosession in the second second	• • • • • • • • • • • • • •	
Distance from top of screen to ground level	Durat	ce from	cvlinder or	bowls to ground	level	
is wen a graver wan type: 2 2.0.000	Water D			······································		
Kind (fresh or mineral)	1.15	<u> </u>		Depth(s) to Water	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.).	provent.	•••••••	· · · · · · · · · · · · · · · · · · ·			8-4
For what purpose(s) is the water to be used?	anne	ale		6	Jun	2
How far is well from possible source of contaminatio	m?					
What is the source of contamination?						·
Enclose a copy of any mineral analysis that has beer	n made of w	ater	· · · · · · · · · · · · · · · · · · ·	•		- <u> </u>
Well Log		From	To	Loc	ation of Well	
		0 ft.	ft.	In diagram b	elow show dist	ances of
Grand. C		0	63	well from re	and lot lin	ie. In-
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Similar		63	20	1		
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Situation: Is well on upland, in valley, or on hillsin	de?	L. M.	<i>¢</i> ; <i>Ų</i> ,Ę,,	••••		•••••
Address Solaring						
Name of Driller F. Consetter	•••••		. Address	.		
Date			.Licence N	umber		~~~
EOPU 5				Signature	of Licensee	
I UKM J			Y	2		

UTM 18^{12} $414318215E 31649$ 5R 50061765N The Ontario Water Reso	ources Commiss	ion Act	15 N	0 ^{6.} 6704
Elev. <u>4</u> <u>0</u> <u>3</u> <u>1</u> WATER WEI Basin <u>2</u> <u>5</u> <u>1</u> <u>1</u> <u>CarrieTon</u>	L KE Cownship, Villag Date completed ress 19	re, Town or Cit 24 (day Gould	N. Geu Hog d St. C	yer 1964 Newq
Casing and Screen Record Inside diameter of casing 6 14 4 Total length of casing 51 Type of screen move Length of screen 6 Depth to top of screen 6 Diameter of finished hole 6	Static level Test-pumpin Pumping lev Duration of Water clear Recommend with pump s	Pump g rate rel test pumping or cloudy at end led pumping ra setting of	bing Test 20 40' $1/_{1}$ $1/_{2}$ 10	G.P.M. G.P.M. G.P.M. low ground surface
Well Log Overburden and Bedrock Record Clay Sandy Clay Limestone	From ft. 0 70 48	To ft. 20 48 65	Water(s) at which water(s) found	kind of water (fresh, salty, sulphur)
For what purpose(s) is the water to be used? House Is well on upland, in valley, or on hillside? upland Drilling or Boring Firm M.C. L. EAN WATER Supply LTD Address 1532 RAVEN ALE. CTIAWA 3 Licence Number 1328 Name of Driller or Borer. SCHARFE SMART Address Date AL'GO24: 1964 (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138	In di road	Locati agram below sl and lot line.	on of Well now distances of w Indicate north b Kars Miles y 12d We 11	well from by arrow.
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COUNTY OR DISTRICT	ton	TOWNSHIP, BOROUGH.	GOURT		CON., BLOCK, TR		(00/
		5	96. Park	view Rd	. Otta	wa DA	TE COMPLETED	48-53 0 YR 23
		NG DIOI	7066 4	ELEVATION 0131215	S BASIN COD			
1 2	" 18 12 LC	I OF OVERBURD	EN AND BEDRO	CK MATERIAL	S (SEE INSTRUCTION	DNS)		
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] FRESH ³ ☐ SULPHUR ¹⁹ SALTY 4 ☐ MINERAL		re •/88 2) 00/60	61 PL		SEALING REC	CORD
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25-28 1 [2]	G SULPHUR 29		26	0083	18-21	22-25		
30-33 1 [☐ FRESH 3 ☐ SULPHUR ³⁴ 8 ☐ SALTY 4 ☐ MINERAL	2	TE DLE		26-29	30-33 80		
PUNPING TEST ME	ETHOD 10 PUMPING RAT	E 11-14 DURATION	OF PUMPING		LOCAT	ION OF	WELL Y	307
1 PUMP STATIC	2 BAILER DO	SO GPM CZ	HOURS MINS	IN DIA LOT LI	GRAM BELOW SHOW	DISTANCES O	F WELL FROM ROA W.	D AND
	PUMPING 1 22-24 15 MINUTES 26-	30 MINUTES 45 MI 28 29-31	2 L RECOVERY NUTES 60 MINUTES 32-34 35-37		١	Ņ	1	
	TO 50 FEET 050 F	E SET AT WATER A	D FEET 050FEET			V		
	GPM. UNP TYPE RECOMMENDI	FEET 1 1	ELEAR 2 CLOUDY					
SHALLO	W CDEEP SETTING		0005 GPM					
EINAL	54 1 TATER SUPPLY	5 🗌 ABANDONED,	INSUFFICIENT SUPPLY					õ
STATUS	2 OBSERVATION WI 3 TEST HOLE	ELL. 6 🗌 ABANDONED. 7 🗍 UNFINISHED	POOR QUALITY				0-2-11	<u> </u>
	55-56 1 D BOMESTIC							3
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	57	• [] POR		-				
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NAME OF DRIL	LLER OR BORER	Λ	LICENCE NUMBER			I	k	
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	OF THE ENVIE		<u></u>	∃ L			FC	DRM 7 07-091

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		ent I. PRINT ONLY IN SPACES PROVIDED 2. CHECK 🛛 CORRECT BOX WHERE APPLICABLE		ER 15174	8 2	ELL 1/5 of	. RE		DRD
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	WATER FOUND AT - FEET KIND OF	ORD (51) CASING & OPEN				OF OPENING (0)	31-33 DIAMETE	R 34-38	75 80 ENGTH 39-40
	0160 PRESH 3	□ SULPHUR 14 □ MINERAL 10 6 10-11 12 STEEL 12 □ GALVANIZED	FROM	10		AL AND, TYPE		DEPTH TO TOP	41-44 30 FEET
	20-23	□ SULPHUR 19	80	025	61		IG & SEALI	NG RECO	RD
-	2 SALTY 4	I SULPHUR I GALVANIZED MINERAL I CONCRETE SULPHUR 29 4 C OPEN HOLE			FROM 10-13	TO 14-17	MATERIAL AND T	YPE CENEL	NT GROUT CKER. ETC)
$\left \right $	2 SALTY 4	□ MINERAL 24-25 1 □ STEEL 26 2 □ SULPHUR 34 00 2 □ GALVANIZED 3 □ CONCRETE		27-30	26-29	22-25)	
Ĩ	71 PUMPING TEST METHOD	Image: Mineral 4 OPEN HOLE 10 PUMPING RATE 11-14 DURATION OF PUMPING						····	,
	STATIC LEVEL	25 WATER LEVELS DURING STATES	0 17-18 MINS 5		AM BELOW	SHOW DISTANCE	S OF WELL FR	OM ROAD AN	D
	035 076	-24 15 MINUTES 30 MINUTES 45 MINUTES 60 M 26-28 29-31 32-34 32-34	4Y MINUTES 35-37	LOT LINE		ATE NORTH BY A	RROW.		
	IF FLOWING 30 GIVE RATE	AT PUMP INTAKE SET AT WATER AT END OF TEST	FEET 42				1	e	
	RECOMMENDED PUMP TYPE	RECONMENDED 43-45 PUMP SETTING ST FEET RATE OO12	46-49 GPM		B	$\not\leftarrow$			
	50-53								
		BSERVATION WELL 6 ABANDONED INSUFFICIENT S BSERVATION WELL 6 ABANDONED POOR QUALITY IST HOLE 7 UNFINISHED		Ion Le	γ.			, [[
		DMESTIC 5 COMMERCIAL					-1m;	k	\$
	USE 'D'	RIGATION 7 DUBLIC SUPPLY DUSTRIAL 8 COOLING OR AIR CONDITIONING OTHER 9 NOT USED						₩erş.	
F		IBUE TOOL 6 DORING TARY (CONVENTIONAL) 7 DIAMOND				and a	25	•	
		TARY (REVERSE)						<u>`</u>	
	NAME OF WELL CONTRACTOR	Da-11: PITA LICENCE NUMB		DATA SOURCE	58 CONTR	ACTOR 59-62		128	53-64 80 · ja
ACTO	ADDRESS PARA	Talor (). T		DATE OF INSPECTION	<u> </u>	INSPECTOR			
ONTR	NAME OF DRILLER OR BORER	Desaufniers 1/19		REMARKS					
	Sillane	Doarby 30 Mo						~~~	Go
-	WINISTRY OF THI	ENVIRONMENT COPY	1					FORM NO.	0506-4-77

Ministry of the		14/07	ie C	Intario Water	Resources A	316 G	9
Ontario Environment	PRINT OHLY IN SPACES PROVIDED		ER 15174	83 MUNIC		ECO	
COUNTY OR DISTRICT	Township, Boroug	CH. CITY. TOWN. VILLAGE	·······	CON. BLOCK, TR	ACT. SURVEY ETC	<u>ANIII</u>	LOT 25-27
	s	N. Grou	rer TI		CA DATE C	OMPLETED	10/
	CHING O I	a6.9.9.9 14			DAY	<u>/0</u> мо	2_ YR_20
	LOG OF OVERBUR	DEN AND BEDRO	CK MATERIAL	S ISEE INSTRUCTION			
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WATER FOUND AT - FEET KIND OF WATER	D 51 CASING	& OPEN HOLE RE		SIZE(S) OF OPENING (SLOT NO)	31-33 DIAM	INCHES	GTH 39-40
10-13 1 2 FRESH 3 50 0155 2 SALTY 4 MI	NERAL	INCHES FRUM	TO	MATERIAL AND TYP	E	DEPTH TO TOP OF SCREEN	41-44 30
15-18 1 🗍 FRESH 3 🗍 SUI 2 📄 SALTY 4 🗍 MIT	NERAL	LE 188 0	094	61 PLU	GGING & SEA	LING RECOR	D
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23.28 1 FRESH 3 SUL 2 SALTY 4 MIN	LPHUR 29 4 OPEN HOL NERAL 24-25 1 STEEL 2 GALVANIZ 2 GALVANIZ	26	27-30	18-21 22	-25		
30-33 1 FRESH 3 SUL 2 SALTY 4 MIN	LPHUR 34 60 3 CONCRETE NERAL 4 OPEN HOL	E .E		26-29 30	-33 80		
71 PUMPING TEST METHOD 10 P	PUNPING BATE II-14 DURATION C	DF PUMPING		LOCATIO	ON OF WEL	L	
STATIC WATER LEVEL 2 LEVEL END OF PUMPING	WATER LEVELS DURING 2	PUMPING RECOVERY	IN DIAGRA LOT LINE	M BELOW SHOW DI	STANCES OF WELL H BY ARROW.	FROM ROAD AND	
	15 MINUTES 30 MINUTES 45 MINU 26-28 29-31 070 FEET 070 FEET	17ES 60 MINUTES 32-34 . 35-37				1/	1.
Z IF FLOWING, 38-41 PU GIVE RATE	UMP INTAKE SET AT WATER AT E						1
RECOMMENDED PUMP TYPE RE D SHALLOW R DEEP SE	ECOMMENDED 43-45 RECOMMEND UMP PUMPING ETTING OOD FFFT RATE O	DED 46-49					
50-53				(·		-
FINAL 1 X WATER 2 OBSERV. 3 TEST HO	SUPPLY S [] ABANDONED, IN VATION WELL G [] ABANDONED PO OLE 7 [] UNFINISHED	SUFFICIENT SUPPLY DOR QUALITY		and a set	100'		
OF WELL 4 C RECHAR				Cute			
	6 🖸 MUNICIPAL TION 7 🗌 PUBLIC SUPPLY RIAL 8 🔲 CODUNG OB AUD CO	NOITIONUUS			100		
D 07		NOT USED	N	laple ST.			
	TOOL 6 BORING (CONVENTIONAL) 7 DIAMON (REVERSE) 8 DISTING						
DRILLING 4 D ROTARY 5 AIR PERC	(AIR) 9 DRIVING	DR.	ILLERS REMARKS				
A CONTRACTOR	all Di-		DATA SOURCE	Se CONTRACTOR	59-62 DATE FRENCO	0281	63-68 80
ADDRESS ROCAT N	- David (D		DATE OF INSPECTION	1119 inspec			
A NAME OF DIMILLER OR BORER	asper Chr.		REMARKS:				
SIGNATURE OF CONTRACTOR	SUBMISSION DATE						
MINISTRY OF TI	HE ENVIRONMENT	COPY	<u>I</u>		F	ORM NO. 0506-4-7	FORM 7



Ministry of the Environment Well Tag Number (Place sticker and print number below) A 006946

A006946

Well Record

Regulation 903 Ontario Water Resources Act

page _ _ of

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

Ministry Use Only

Address of Well Location (C	ounty/District/Mu	unicipality)	T	ownship		Lot	,	Conce	ssion	
Ottawa Carleton				Rideau	0 North G	lover	1/2			A
RR#/Street Number/Name	at line De	ad		City/Town/V	illage	Site/Compa	artment	/Block/Tr	act et	C.
GPS Reading NAD	Zone Eastin	ng Northir		Unit Make/M	DELCK Nodel Mod	e of Operation	lifferentia	tert Dat	Aver	hand
8_3	18 44	44 29 50	07 4 4 6	Garmer		Diff	erentiated	d, specify	y /weite	igea
Log of Overburden ar	d Bedrock M	aterials (see instru	uctions)							
General Colour Most cor	nmon material	Other Mate	erials		Gener	al Description		Dep	oth om	Metres To
Brown C1	av				Par	kođ		0		3 65
Grav C1	2 7				S+4	ckoz		2	65	12 10
Grav Sa	adv Soil	Stone				LACY		12	10	10 20
Grav I.i	mestone		·····					14.	17	10+20
	Bes LVMC							18.	20	25.90
								a and Westerson		
	p									
Hole Diameter		Constr	uction Rec	ord		Tes	t of We	ell Yield		
Depth Metres Diam	eter Inside	Material	Wall	Depth	Metres	Pumping test method	Drav	v Down	R	ecovery
	centimetres	(viacenai	centimetres	From	То	submersible	min	Metres	min	Metres
0 19.20 22.	53		`aeina			Pump intake set at -	Static	.58		
19.20 25.90 15.	23	Steel Fibrenlass				Pumping rate -	Level	-8	1	20
	10.81	Plastic Concrete	0.48	+ 0.45	5 19.20	(litres/min) 1245				
Water Record		Galvanized				Duration of pumping	2	.60	2	.37
at Metres Kind of Wa	ter	Steel Fibreglass		·····		Final water level and				
20.712 Fresh Sul	phur	Plastic Concrete				of pumping 69	3		3	36
Other:		Galvanized				Recommended pump	4	.60	4	36
22 pro Fresh Sul	phur	Steel Fibreglass				│ type. │				
Gas Salty Mir	ierals	Plastic Concrete				Recommended pump	5	.61	5	.35
		Gawanized	Saraan			Recommended nump	10			
Gas Salty Mir	phur Ierals Outside		Screen		1	rate. 45	10	.63	10	.33
Other:	diam	Steel Fibreglass	Slot No.			If flowing give rate -	20	.64	20	30
After test of well yield, water w	/as	Galvanized				(litres/min)	25	.65	25	.30
Clear and sediment free						lf pumping discontin- ued, give reason.	30	.66	30	.29
Outer, specify			sing or Sci	reen		4	40	.00	40	-28
Chlorinated Yes No	15.23	YOpen hole		19.20	25,90		60	.69	60	.27
Plugging ar	nd Sealing Reco	ord 🕅 Annular s	pace A	bandonment		Location	of Well			
Depth set at - Metres Material a	and type (bentonite s	slurry, neat cement slurry) e	tc. Volur	ne Placed	In diagram belo	w show distances of well fr	om road	, lot line, a	and bui	lding.
	and Dent				Indicate north b	y arrow.				
19.20 U Grou	tea - Bent	onice Slurry	0.9	8083		Ke & har				
								1	\mathbf{h}	
	Mothod of (Construction						- (.	: Art	
Cable Tool	otary (and mut			Digging	× 1				-	
🗌 Rotary (conventional) 🛛 🙀 A	ir percussion	Jetting		Other		No.		- Q	<u>(</u>)	
Rotary (reverse)	oring	Driving					51 4	1910		
Domestic In	Wate	Public Supply		7.0%		X	•			
	ommercial	Not used		_ Otner						
Irrigation M	unicipal	Cooling & air c	onditioning		Audit No. 7	07077 Dat	e Well C	Completed	Y	MM DD
Mater Supply	Final Stat	tus of Well		anad (Other)			e Deliver	200	4	3 18
Observation well Aband	oned, insufficient si	upply Dewatering		oned, (Other)	package delivere	ed? Yes XNo	C DONIC	200	4	3 25
Test Hole Aband	oned, poor quality	Replacement v	vell			Miniat 11	Only			
Well Name of Well Contractor	Contractor/Teo	Internation	Contractor's	Licence No	Data Source	Cor	tractor		20	
Capital Water Sun	ply Ltd.	1	1558			·		10	20	>
Business Address (street name,	number, city etc.)				Date Received	AYYYONN DD Dat	e of Insp	ection Y	YYY	MM DD
P.O. Box 490 Sti Name of Well Technician (last n	ttsville,0	ntario K2S 1AC	5 Technician's	Licence No	Remarks		I Record	Number		
tiller: Stephen	,		0097		1°C	vve			-	
Signature of Tranhician/Contrac	tor	Date S	Submitted yyyy	MM DD	US	C 1. 1	15	5346	57(D
0506E (09/03)	Cont	tractor's Copy 🗔 Minis	2004	<u>3 26</u>		Cette fr	rmule	est dispo	nihle e	n francais

Ontario Ministry of the Enviro	nment	below)	Regulation 903 Ontario	Well Record Water Resources Act
Instructions for Completing Form For use in the Province of Ontario All Sections must be completed in Questions regarding completing th All metre measurements shall be	only. This document is a permanent full to avoid delays in processing. Fur is application can be directed to the reported to 1/10 th of a metre.	legal document. P ther instructions an Water Well Help [lease retain for future referen d explanations are available on Desk (Toll Free) at 1-888-396	page of the back of this form. 6-9355.
Please print clearly in blue or black	ink only.			
Address of Well Location (County/District/Mu RR#/Street Number/Name H 554 S Cone Eastin BI3 Reading NAD Zone Eastin 813	aicipality) Concernent City/o Line Recol IV g Line Recol IV Northing Jan Baco Bach Unit My Line Baco Bach Unit My	Village Wn/Village Ake/Model Model Model Model Model	Lot Site/Compartment/Blo of Operation: Undifferentiated Differentiated, sp	Concession bck/Tract etc.
Log of Overburden and Bedrock Ma General Colour Most common material	Aterials (see instructions) Other Materials	Genera	al Description	Depth Metres
Sand, G	Fravel, Bonk	les		From 10 0 20,42
- Sand a	Sravel			0,4-2,24,38
	the		2	4.38 30,48
		Annon	-	
Hole Diameter	Construction Record		Test of Well	Yield
From To Centimetres diam	Material Wall Dep	oth Metres	Pumping test method Draw D	own Recovery r Level Time Water Level
0 36,48 H,91 centimetres	centimetres Fro	m To	Pump inteke set Static	etres min Metres
	Steel Fibreglass		Pumping rate 1 3	27 1 7,97
Water Record		2/21	Duration of pupping 2 2	2 2
Water found at Metres Kind of Water	Steel Fibreglass	06.	hrs + min	22
Gas Salty O Minerals	Plastic Concrete		of purpeng 3 metres	24
Other:	Steel Fibreglass		type.	34 4
Gas Salty Minerals	Plastic Concrete Galvanized		depth depth	5
m Fresh Sulphur	Screen		Recommended pump 10 rate.	10
Other: diam	Steel Fibreglass Slot No.		(litrestmin) 15 If flowing give rate - 20	15 20
After fest of well yield, water was	Galvanized		(litres/min) 25 If pumping discontin- 30	25 30
Nother, specify rested	No Casing or Screen		ded, give reason.	7 40
Chlorinated Yes No	Depen hole 25 k	30,48		37 60
Plugging and Sealing Reco	rd Annular space Abandonm	ent In diagram below	Location of Well	t line, and building.
2560 2255 Nort (er	vet Sluct very 2724	Indicate north by	arrow.	
23,55 0 Bertanit	esturn, 981	<u>†</u> þ	ankfield	ווייני איז איז איז איז איז איז איז איז איז אי
· · · · · · · · · · · · · · · · · · ·	/		A	- A
			IKM 3	Ŷ IN
Method of C	construction			
Rotary (conventional)	Jetting Other		Que de la	3 6
Wate	r Use		70.	0
Stock	Public Supply Other Other			
☐ Irrigation ☐ Municipal Final State	Cooling & air conditioning	Audit No.	55539 Date Well Com	BOCK MM BD
Water Supply Recharge well Observation well Abandoned, insufficient su	Unfinished Abandoned, (Otl	her) Was the well ow package delivered	ner's information 1? Pres No	2006 11 27
Test Hole Abandoned, poor quality Well Contractor/Tecl	Replacement well		Ministry Use Only	
Name of Well Pontractor AIR KECK PRILLIN	Well Contractor's Licence N	o. Data Source	Contractor	119
Business Address (street name, number, city etc.)	ND ONT KNAZ	20 Date Received	112 2009 DD Date of Inspection	DD YYYY MM DD
Name of Well Technician (last name, first name)	Well Technician's Licence N	lo. Remarks	Well Record Nu	mber
Signature of Technician/Contractor	Date Submitted	B		
0506E (08/2006)	Ministry's C	opy	Cette formule est	disponible en français

Por	ntario	Ministry the Envi	of ronment	Imperial	Well Ta	g No. (Place Sticker an A102416	d/or Print Below) A10241	6 ["]	903 On	We tario Wat Page_	ell Re er Reso	ecord urces Act
Well Own	er's Inform	nation		Imperiar	11000	A STREET BAR			9414			
First Name		La	st Name /	Organization	Develo	opments	E-mail Address			E	Well C by Wel	onstructed I Owner
Mailing Addr	ess (Street N	Number/Name		II OI Dall	Dever	Aunicipality	Province	Postal Code	T	elephone M	lo. (inc. a	rea code)
117 Cer	ntrepoi	nt Dr.,	Suite	300		Nepean	Ontario	K2G 5X3		015 2.	10 64	/0
Well Locat	tion Vell Location	(Street Num	ber/Name)	1	Fownship		Lot	C	concession	1	
Lot 37	Maple (Creek				Rideau			Provinc	0	Postal	Code
County/Distr	Carlet	on				Manotick			Onta	rio		111
UTM Coordin	ates Zone	Easting	1	lorthing		Municipal Plan and Suble	ot Number		Other			
NAD	8 3 1 8	444275	e/A hand	500707.	5 aling Rec	ord (see instructions on the	back of this form)		11113	1.0.0.0		
General Co	lour	Most Comm	on Materia	al	Ot	her Materials	Gen	eral Description			Dept From	th (<i>m/ft</i>) To
Brown		Sandy S	Soil								0	3.35
Grev		Sand &	Grave	1							3.35	10.35
Grev		Till								1	0.35	16.76
Grev		Limesto	one							1	6.76	37.48
orey												
									- State		_	
Donth So	t at (m/#)		Annul	ar Space		Volume Placed	After test of well yiel	Results of We	Dr	aw Down		ecovery
From	To		(Material	and Type)	1	(m³/ft³)	Clear and sand	d free	Time (min)	Water Lev (m/ft)	el Time (min)	Water Level (m/ft)
18.59	0	Grouted	Bento	onite S1	lurry	.69m ³	If pumping discontin	nued, give reason:	Static	3 72		
									1	4 18	1	1. 27
							Pump intake set at	t (m/ft)	2	4.10	2	4.27
							30.4	47	3	4.29	3	3.90
Meth	nod of Con	struction			Well U	Jse	Pumping rate (Vmin 54 . 6	n / GPM) 6		4.38	4	3.82
Cable To	ool ConvMhtighal)	Diamond		Public Domestic	Comn	nercial Not used	Duration of pumpin	ng		4.44		3.76
Rotary (F	Reverse)	Driving		Livestock	Test H	Hole Monitoring	hrs +	min d of pumping (m/l)	5	4.50	0	
Air percu	ussion			Industrial		ig a Air Conditioning	4.8	89	10	4.68	10	
Other, s/	pecify			Other, specify		Chattan a fi Mall	If flowing give rate	(I/min / GPM)	15	4.72	15	
Inside	Open Hole	OR Material	VVall	Dep	oth (<i>m/ft</i>)	Vater Supply	Recommended pu	ump depth (m/ft)	20	4.79	20	
Diameter (cm/in)	(Galvanized Concrete, F	d, Fibreglass, Plastic, Steel)	Thicknes (cm/in)	s From	То	Replacement Well	22.8	85	25	4.83	25	
15.86	St	tee1	.48	+.45	18.5	Recharge Well	(Vmin / GPM)	imp rate	30	4.85	30	
						Dewatering Well Observation and/or	45.	5 (min / GPM)	40	4.88	40	
1						Monitoring Hole	Disinfected?		50	4.89	50	
						(Construction)	X Yes No		60	4.89	60	
TREESEN	Co	onstruction R	ecord - S	creen	- TELEN	Insufficient Supply		Map of V	Vell Lo	cation		
Outside Diameter	(Plastic Gal	aterial	Slot No	Dep	oth (<i>m/ft</i>)	Water Quality Abandoned, other,	Please provide a m	hap below followin	g instruc	tions on th	e Dack.	
(cm/in)	(ridous, com	Wallie Gu, Globaly		FIOM	10	specify	1	11451	HNG	na.		
		<u></u>				Other, specify	-A-7	-				
								REEK		•		
Water four	nd at Depth	Water De Kind of Wate	r: Fres	h vUnteste	ed D	epth (m/ft) Diameter		STATES	1			
27.43	n/ft) 🗌 Gas	Other, sp	ecify	Т	From	To (cm/in)	-	1				
Water four 34,40	nd at Depth	Kind of Wate	ecify	h X Unteste	ed U	18.59 15.80	- /	!			1	~
Water four	nd at Depth	Kind of Wate	er: Free	h 🗌 Unteste	18.5	9 37.48 15.23		i			1	0
(1	m/ft) 🗌 Gas	Other, sp	ecify		-	41				107	# 37	
Business N	We Name of Well	I Contractor	or and W	ell Technic	ian Inform	nation Well Contractor's Licence No						
Capita	al Water	r Supply	Ltd.			1 5 5 8						
Business A	Address (Stre	eet Number/N	ame)			Stittsville	Comments:					
Province	P	ostal Code	Busin	ess E-mail A	ddress	Serecontric				1	1	
Ontari	io I	K2S 1A6	0	ffice	capita.	lwater.ca	Well owner's Da information	ite Package Delive	red	Audit No	nistry U	seonly
613 8	36 1766	area code) N	Mil	ler, Ste	ephen	io, rinocreanito)	delivered 2	0 1 1 0 M	5 0 0	Z	115	0/17
Well Techni	ician's Licence	No. Signatur	a/of/Tech	ician and/or	Contractor	Date Submitted	XYes O	011110	s da		110 0 7	2011
05065 (2007	9	n's Drinter the	lip	m	V	Ministry's Cor				Receiver	000	2011

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Measurements Pack	Do	ntari	O Ministr	y of vironme	nt	Well Ta	Well Tag No. (Place Sticker and/or Print Below A102457 A1024			Mor Print Below Well Record A102457 Dr 903 Ontario Water Resources Act							rd Act
Well Carent's Information Entra Advance Instruction Instru	Measurem	ents rec	orded in: XN	letric	Imperial								1	Pag	e		_
Annual Agence Provide Concerned Tealing Provide Concer	First Name	ner's In	formation	ast Name Unifo	/ Organizati	on Dovo1	opmonts		E-mail Addr	ress		100			Well	Construc	ted
117 Contrepointe Dr. Suite 300 Negen Ontario K26 333 0.13 222 0770 Addes of Val Loads (Beek Munder/Ham) Consume Consume A Predit Code Addes of Val Loads (Beek Munder/Ham) Consume Consume A Predit Code Consume Consume Consume A Predit Code Consume Consume Consume Consume A Consume Consume Consume Consume Consume Consume Consume Consume Consume Consume Consume Consume Consum Consume Consume	Mailing Add	dress (Str	eet Number/Nan	ne)	III OIDA	ii bever	Municipality		Province	1	Postal	Code		Telephon	e No. (ind	area cod	ie)
American do Constraint Constr	117 Ce	entre	pointe Dr.	Suit	e 300		Nepean		Ontari	io	K2G	5X3	1	613 2	25 07	70	1
Lot. 33 Apple Creak Rideau 3 A OutgonyDistrict WanDitck Other Manine Other Other Mole Si3 1.1.4 (44.201) (500716) (500716) Other Other Other Brown Soil Stores Other Anneal Reset daw standards and stadt human Other Anneal Reset daw standards Anneal Reset daw standards <td< td=""><td>Well Loca</td><td>Well Loc</td><td>ation (Street Nur</td><td>nber/Nam</td><td>ie)</td><td></td><td>Township</td><td></td><td><u>alana a</u></td><td></td><td>Lot</td><td></td><td></td><td>Concess</td><td>on</td><td></td><td></td></td<>	Well Loca	Well Loc	ation (Street Nur	nber/Nam	ie)		Township		<u>alana a</u>		Lot			Concess	on		
Control Control Control Control Power Power Power	Lot 32	3 Mapi	le Creek				Rideau					3			A		
Outcast Contact Contact Model NS1 Life Contact Contact General Colum Model Control Matching Contact Contact General Colum Model Control Matching Contact Contact Contact General Colum Model Control Matching Contact Contact Contact Contact General Colum Model Control Matching Contact	County/Dis	strict/Mun	icipality				City/Town/Village						Provin	nce	Post	al Code	11
Nuel (S) 1 (2) USD 112 General Color Most Common Markenia Other Materials General Description Part Grey Sol 1 Stones 0 3.04 8.83 Grey Sol 1 Stones 0 3.04 8.83 Grey Till Stones Packed 3.04 8.83 Grey Sol 1 Sondstone Layer Hard 17.67 45.10 Dath in at (mt) Type of Beater Utad Valuers Flaced Market of well yield Testing Packed 3.04 8.83 17.67 45.10 Dath in at (mt) Type of Beater Utad Valuers Flaced Market of well yield Testing Packet Testi	UTM Coord	inates Z	one Easting		Northing		Municipal Plan and	Sublot	Number	-			Other	4110			
Annual Field of Market Multiple Control Market Multiple Control Description Description Brown Sol1 Stones 0 3.04 Grey Sand 0 3.04 8.83 17.62 Grey Sand Packed 3.04 8.83 17.62 Grey Linestone Sandstone Layer Hard 17.62 45.10 Grey Trace Beach Used Values Finded Grey Hard 17.62 45.10 Grey Trace Beach Used Values Finded Grey Trace Beach Used Market Grey Trace Beach Used Trace Beach U	NAD	8 3	1 8 44430	1	50071	52											
Contract Code Dimensional contraction Contraction Dimension Contraction Dimension Brown Soil Stones 0 3.04 8.83 17.67 45.10 Grey Sand Packed 3.04 8.83 17.67 45.10 Grey Till Sandstone Layer Hard 17.67 45.10 Grey Contraction Sandstone Layer Hard 17.67 45.10 Provention statistics Sandstone Layer Hard 17.67 45.10 Provention statistics Sandstone Layer Packed 3.005 2 2.21 Provention statistics	Overburde	en and E	Bedrock Materia	als/Aban	donment S	ealing Reco	ord (see instructions o	on the b	back of this form)	0	1.0	- Alam			De	pth (m/#)	
Brown Soll Stones 0 3.04 Grey Sind Packed 3.04 8.83 Grey Till 8.83 17.67 Grey Limestone Sandstone Layer Hard 17.67 45.10 Parked Sones 0 J.04 8.83 17.67 Parked Sones 0 Grey Hard 17.67 45.10 Parked Construction Veter form Construction Recurds of Wet Year Recurds of	General G	olour	Most Comm	ion Mater		00	ner materials			Genera	Desc	nption			From	To	
Grey Sand Packed 3,04 8,83 17,67 Grey Limestone Sandstone Layer Hard 17,67 45,10 Grey Limestone Sandstone Layer Hard 17,67 45,10 Open for emerged For end of youth Used Open for emerged The Wall Yield Testing Open for emerged For end of youth Used Open for emerged 12,206 12,223 Mothod of Construction Well Vield Construction for Well Yield Testing Provide Generating Provide Generating Open for emerged Annual Spece Open for emerged 12,206 12,223 Method of Construction Well Use Open for emerged 3,005 3,2,21 Open for emerged Annual Spece Open for emerged 3,005 3,2,21 Open for emerged Annual Spece Open for emerged 3,005 3,2,21 Open for emerged Annual Spece Open for emerged 3,005 3,2,21 Open for emerged Annual Spece Open for emerged 3,007 5 3,112	Brown		Soil			Sto	nes								0	3.	04
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Grey Limestone Sandstone Layer Hard 17,67 45,10 Depth State (mt) Tomo (mt) Sandstone Layer Hard 17,67 45,10 Depth State (mt) Tomo (mt) Sandstone Layer Hard 17,67 45,10 Depth State (mt) Tomo (mt) Sandstone Common (mt) Depth State (mt) <t< td=""><td>Grey</td><td></td><td>Till</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.83</td><td>3 17.</td><td>67</td></t<>	Grey		Till												8.83	3 17.	67
Annular Space Reading of Well York Trade Tenner Permit Net (mt) Type of public fill Suid Velocities Theory Permit Net (mt) Type of public fill Suid Velocities Theory Permit Net (mt) Or and a back trade to the state of the state	Grey		Limes	tone		Sandsto	ne Layer		H	lard					17.67	45.	10
Results of Well Yield Testing Dech et al (VM) Type of Spance Value (Find) 19.50 0 Grouted Bentonite Slurry .69m3 10.64m7 0 .69m3 .67m3 .67m3 10.64m7 0 .67m3 .67m3 .67m3 10.64m7 0 .67m3 .67m3 .67m3 10.64m7 0 .67m3 .67m3 .77m3 10.64m7 0 .67m3 .75 .75m3 11.5.86 Steel .48 .45 .9.50 .67m3 .67m3 11.7.86 Steel .48 .4.5 .9.50 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>																	
Results of Visit Visit Treating Results of Visit Visit Visit Treating Detail Visit Treating Detai																	_
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Address of Well Lo 3 (80) County/District/Mu UTM Coordinates NAD 8 3	Zone Easting Northing	Township Neplan /O City/Town/Village Municipal Plan and Sublot 15 3 2 I_RP_5R5	Hawa I Number 5205 2RF	Province Ontario Other	Postal C	Code 2E0
Overburden and	Bedrock Materials/Abandonment S	ealing Record (see instructions on the	back of this form)		Depth	n (<i>m/ft</i>)
General Colour Down Grey Grey	Most Common Material Coarse Sand Course Sand Medium Sand grave (Other Materials Stones gravel Stones gravel gravel, Stone Medium San	Hard Hard Hard Mard d Packed		From 7.9 18.4 21.7	7.9 18.4 26.7 25.9
	Annular Space		Results o	f Well Yield Testi	ing	

			_		Results of Well Yield Testing							
			Annula	rSpace				Results of W	ell field lesting			
Depth Se From	et at (m/ft) To		Type of Se (Material a	alant Used nd Type)		Volume I (m ³ /I	Placed ^{A3})	Clear and sand free	Time Water Level Time Water Level			
0	6	cin	rent	aroi	it	.2	m 3	If pumping discontinued, give reason:	Static (DE V 21			
1.57	1.1			5				in pumping discontinues, give reason.	Level 6.87 1.00			
								Pump intake set at (m/ft)	1 Tidd + tyl			
								22	2 Fi21 2 Tide			
Meth	nod of Cor	struction			Well Use	9		Pumping rate (Vmin / GPM)	3 7,22 3 7,24			
Cable To	lool	Diamond		Iblic	Commen	cial D	Not used	Duration of pumping	4 7.22 4 6,93			
Rotary (F	Conventional) Reverse)	Driving		omestic vestock	Municipa Test Hole		Dewatering Monitoring	hrs +min	5 722 5 687			
Boring		Digging		igation	Cooling 8	& Air Condition	ning	Final water level end of pumping (m/lt	10 752 10 6.86			
Other, s	pecify Ai	r Rotavi		dustrial ther, <i>specify</i> _				If flowing give rate (Vmin / GPM)	15 24 15 686			
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Inside Diameter	Open Hole (Galvanized	OR Material d, Fibreglass	Wall	Depth	(<i>m/ft</i>)	Water Su	upply	Recommended pump depth (m/ft)	25 7110 25 006			
(cm/in)	Concrete, I	Plastic, Steel)	(cm/in)	From	То	Test Hole	B	Recommended pump rate	20 THE 20 6-83			
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Outside	Ma	iterial	Slot No.	Depth	(<i>m/l</i> t)	Water Qu	uality	Please provide a map below following	instructions on the back.			
(cm/in)	(Plastic, Gal	vanized, Steel)	GIOLINO.	From	То	Abandon specify	ed, other,		france of walks D			
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Water four	nd at Depth	Kind of Wate	r: Fresh	Untested	Depth	n (<i>m/ft</i>) To	Diameter (cm/in)		- 50m [09"			
Water four	nd at Depth	Kind of Wate	r: 🗌 Fresh	Untested	0	6	242		T well			
(n	n/ft) Gas	Other, spe	cify		6	25.9	15.55	P				
vvater iour	n/ft) Gas	Other, spe	cifv	Ontesteo				X	4			
	We	Il Contracto	or and Wel	I Technicia	n Informat	ion		Š.	Lust			
Business N	lame of Well	Contractor			Wei	Contractor's L	icence No.	1	por p			
Business A	ddress (Stre	et Number/Na	med	es	Mur	nicipality	t	Comments:				
151	Nont	ée I	rud A'c	,t		Natio	n					
Province	Pe	ostal Code	Busines	s E-mail Add	A			Well owner's Date Backage Deliver	Ministry Use Only			
Bus.Telepha	one No. (inc. a	area code) Na	me of Well	Technician (I	ast Name, F	irst Name)		information	Audit No.			
6134	1875	291	BEN)IER	, MI	CHAL	EL	delivered Date Work Completed	Z140777			
Well Technic	ian's Licence	No. Signature	of Fechnici	an and/or Co	ntractor Date	Submitted	100	No Qaluate	ale			
0506E (2007/	12) © Queer	n's Primer for Oni	ano, 2007	5	qui	Ministra	1's Conv	La Martine	Received			
		1	ALC: NO	1. 1. 1. 1. 1.		minauj	a copy		1101 1 2011			

£20	ntario) Minist the Er	ry of nvironment	t 	Well Tag No. (Place Sticker and/or Print Below) Regulat A165049 Regulat				Well Record					
Measureme	ents recor	ded in: 🖄	Metric [_]	Imperial	=	Гад #: А16	5049	L						
First Name	ner's Into	ormation	_ast Name /	Organizatio	n		E-mail Address				U Well	Constructed		
			Phoenix	Homes		A. 4 1 11	Drawinger	Deatel Cada		Tolophon	by W	ell Owner		
Mailing Add	tress (Stree trlev A	et Number/Na	me)			Ottawa		K2E 6T8			23 92	27		
Well Loca	ation	···				ollawa		<u> </u>		<u>419</u> (20 02			
Address of	Well Locat	ion (Street Nu	mber/Name)		Township		Lot		Concessi	on			
LOT 30 County/Dist	trict/Munic	IIe – Ma ipality	ple Cre	ek		K10eau City/Town/Village			Provin	се	Posta	I Code		
Ottawa	Carle	ton				Manotick			Onta	ario				
UTM Coordi	inates Zon	e Easting		lorthing	1 0 1	Municipal Plan and Subl	lot Number		Other					
Overburde	8 3 1 0 en and Be	drock Mater	ィンロン als/Abande	onment Se	1 3 1 aling Rec	ord (see instructions on the	e back of this form)							
General Co	olour	Most Com	non Materia	ıl	O	her Materials	Gen	eral Descriptior	1		Der From	oth (<i>m/ft)</i> To		
Brown Sand					Gravel	& Stones	Loc	se			0	7.61		
Grey	Grey Sand & Gravel				Large	Boulders					7.61	15.84		
Grev	Grev Limestone				,	Med	ium Hard			15.84	45.71			
urey		LINESCO.					ncu	rum nuru			1			
			Annula					Posults of W		d Tostin	n			
Depth Se	et at (<i>m/ft</i>)		Type of Se	alant Used		Volume Placed	After test of well yield	, water was:	Dra	aw Down	9 F	lecovery		
From	То		(Material a	nd Type)		(m³/ft³)	Clear and sand	free	Time (<i>min</i>)	Water Le (m/ft)	vel Time (<i>min</i>)	Water Level (m/ft)		
18.28	0	Groute	l Bento	nite Sl	urry	.69m ³	If pumping discontinu	ed, give reason:	Static	5.30				
									1	5 22	1	5 22		
							Pump intake set at ('m/ft)	2	J.JJ	2	5. 01		
							22.85	j	2	5.33		5.31		
Meth	nod of Co	nstruction			Well U	Se	Pumping rate (I/min .	/ GPM)	3	5.34	3	5.29		
Cable To	ol Maad	Diamono	1 🗌 Pi	ublic		ercial 🗌 Not used	Duration of pumping	1	4	5.34	4	5.30		
Rotary (C	co nvai tiona Reverse)	Driving		vestock	Test H	ole Monitoring	hrs +	min	5	5.34	5	5.30		
Boring	ssion	Digging		igation dustrial	Coolin	g & Air Conditioning	Final water level end	of pumping (m/ft)	10	5.35	10	5.30		
Other, sp	becify		_ 0t	her, <i>specify</i>			If flowing give rate (l.	/min / GPM)	15	5.36	15	5.30		
	Co	nstruction R	ecord - Ca	sing	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Status of Well]		20	5.36	20	5.30		
Inside Diameter	Open Hol (Galvaniz	e OR Material ed, Fibreglass,	Wall Thickness	Dept	ו (<i>m/tt</i>)	□ L Water Supply	Recommended pur	p depth (m/ft)	25	5.30	25	5.30		
(cm/in)	Concrete,	Plastic, Steel)	(cm/in)	FIOIII	10	Test Hole	Recommended pur	ip rate	20	5.37	20	5.30		
27.31	Ор	en		0	18.28	B Dewatering Well	(<i>l/min / GPM</i>) 45.5			2.37	00	5.30		
15.86	Ste	eel	.48	+1.82	18.28	3 Observation and/or Monitoring Hole	Well production (I/m	n / GPM)	40	5.38	40	5.30		
						Alteration	Disinfected?		50	5.38	50	5.30		
						Abandoned,	🕅 Yes 🗌 No		60	5.39	60	5.30		
	С	onstruction R	ecord - Scr	een	1	Abandoned, Poor		Map of W	ell Loc	ation				
Outside Diameter	M (Plastic Ga	aterial Ivanized Steel)	Slot No.	Depti	n (<i>m/ft</i>)	Water Quality	Please provide a map	below following	Instructi	ons on the	back.			
(cm/in)	· · · · · · · ·			11011	10	specify	<u> No</u>	FIRST .	LINE					
						Other, specify				107 4	26			
] (1		,		
Water found	d at Dapth	Water De	tails	V Uptostod	Dei	Hole Diameter				ł	~	1		
37.18m	/ft) Gas	Other. spe	r:rresn	X Untested	From	To (cm/in)				1	BEAN	VD I		
Water found	d at Depth	Kind of Wate	r: Fresh	X Untested	0	18.28 15.86				1	11043	56 		
44.49(m)	/ft)	Other, spe	ecify		18.28	45.71 15.55			1	l				
water found	d at Deptn	Conter so	r:Fresh	Untested				CABA	telle					
1110	w	ell Contracto	or and Well	Technicia	n Informa	ation	il /					1		
Business Na	ame of Wel	I Contractor			W	'ell Contractor's Licence No.								
Capital Business Ad	L Wate	r Supply	Ltd.	****] 	<u>558</u>	Comments:	MAPLE	Che	CK				
Box 490))	or number/Ne	ano)		V	Stittevillo								
Province	P	ostal Code	Busines	s E-mail Add	Iress	<u>, , , , , , , , , , , , , , , , , , , </u>								
Ontario			6 of	fice@c	apital		Well owner's Date I	Package Delivere	d	Mini Audit No*	stry Uso	only		
6 1 3 8	110 110. (<i>Inc</i> . 3 3 6 1	area code) Na 7 6 6	Mille	$r \swarrow Stor$	hen	, i i st indilie)	package 2 0/	1 5 0 6	<u>0 5 </u>		-18	8496		
Well Technicia	an's Licence	No. Signature	of Technicia	an and/or Co	ontractor Da	ate Submitted	X Yes			JUN	125	2015		
U 0	2) @ 0.000	7	ario 2007	an	2	0150609	<u> </u> <u>k</u> √0	15060	<u>) 3</u> [Received				
JUUUL (20077).	⊷, ⊍ ບ ຍe				¥	winistry's Copy								

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Measurements r	rio Ministry of the Environm ecorded in: Metric	ent Imperial	We	Tag#: A1999 A199917	917 Below)	Regulatio	n 903 Ontar	Well R rio Water Res Page	ecord ources Act	
Address of Well L	ocation (Street Number/Na	me)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Township		Lot	Conc	cession		
232 Cal	brelle Place			Rideau		4		A		
County/District/M	unicipality			City/Town/Village			Province	Postal	Code	
Ottawa	-Carleton	4 1 1 1		Manotick	z b F		Ontario			
UTM Coordinates			\$ \$ \$	Municipal Plan and Subic	ot Number		Uner			
NAD 8 3	18 444222	<u>1 500</u>	7163	<u>4M-1407</u>	- Trinings and The toriginal second		<u> </u>			
General Colour	Most Common Mate	orial	canny re	Wher Materials	Gener	al Description	. (19. 20. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	_ Depl	th (m@)	
							° 	From	Το 1	
		and	dr.	Boulder	- *** #* #* 			O	29	
	G	ravel	4-	Boulders	ka Ka Ba			29 (64	
Grey	Li	mestone						64 '	133′	
Grey	Li	mestone						133 (152	
Grey	Lì	mestone			·			152 '	180 (

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			Annular	Space			Results of We	Il Yiel	d Testing		
Depth Se	et at (m		Type of Sea	Iant Used		Volume Placed	After test of well yield, water was:	Draw Down		Recovery	
7.5	74 ' 0' Neat cement					27 1	Olher, specify		water Level (m/ft)	(min)	(m/fit)
***** ********************************		8 18 6au 6ail De - 1047	nen l' F 2 Vien F 6 n.				If pumping discontinued, give reason:	Static	11'3"		43.4'
							\mathbf{X}	1	21.5	1	23.6
	**************************************						Pump intake set at (mm)	2	28.8	2	18.4
							140 Pumping rate (1/min / GPMP	3	30.4	3	15.7
Mett Cable To	nod of Cor xol	Diamond		olic	Well Us	e cial 🔲 Not used	20	4	33.5	4	12.9
Rolary (0	Conventional)	U Jetting		meslic			Duration of pumping	5	35 7	5	11 3
	veverbe)			jation		& Air Conditioning	Final water level end of pumping (m/ft)	10	<u>42 3</u>	10	14.3
SLAir percu ☐ Other, <i>s</i> r	ission becify		L Ind	ustrial ier, <i>specil</i> y			43.4 /	15	13.2	15	442
	Con	struction Re	cord - Cas	ing		Status of Well	X	20	/13	20	445
Inside Diameter	Open Hole (Galvanized	OR Material I. Fibreglass,	Wall Thickness	Depth	(n@)	Water Supply	Recommended pump depth (mm)	25		25	4 4 M
(cm())	Concrete, F	Plastic, Steel)	(cm@) (c	FIOIN *	10	Test Hole	Recommended pump rate		45,4		1.1.S.
614"	Steel		.188	+2 (74	Recharge Well Dewatering Well	(1/min / ED) 20	30	43,4	30	11.3
6"	Open I	Hole		74 '	160′	Observation and/or	Well production (Ilmin / GPM)	40	43,4	40	11.3







25- Or	ntario	Ainistry of the Envi and Climate Chang	ronment W	ell Tag N	No. Tag#:	2 Well Rec(Regulation 903 Ontario Water Resource					
Measuremer	nts recorded in:	🗌 Metric	Imperial	ف	AZU//1Z				Page		of
Address of W	Vell Location (Str	eet Number/Name)		Tow	vnship		Lot		Concession) 	
County/Distri	ict/Municipality	<u>ace</u>		City	//Town/Village		<u> </u>	Provir	nce	Postal	Code
 	<u>wa Carlotz</u>	387			Manntick	······		Ont	ario		
	ates Zone Eas	ting No	orthing	Mur	nicipal Plan and Suble	ot Number		Other			
NAD 8	S 3		End 74 E	Record	\square $AM - 1A07$	hack of this form					
General Col	our Mos	t Common Material		Other	Materials	Gener	al Descriptior)		Dept	
										From	
·····		Sand	8		<u>Ciay</u>	1 1	A 8	·····			<u> </u>
		Sand	an	d	Gravel	and bou	ilde	<u> </u>		<u> </u>	52 /
<u> </u>	<u></u>	Lime	stone			······································				52 1	131
<u> </u>		Lime	stone							131+	150
Grev		Line	stone							1504	153 1
Grev		Lime:	stone							153 1	180 /
						+					
			· · · · · · · · · · · · · · · · · · ·								
								20102723			
Depth Set	at (m/ft)	Type of Sea	space Mant Used		Volume Placed	After test of well yield, v	vater was:	en ne Dr	aw Down	Re	соvегу
From	To	(Material an	id Type)	·	(m(fit ³)	Clear and sand fr	ee	Time	Water Leve	I Time \	Water Level
82	0N	leat œment			31.2		Not este	Static		(min) (
							o, give reason:	Level	M.J.		9.3
								1 	8.8	1	<u>9.4</u>
					<i>,</i>	Pump intake set at (n		2	9.8	2	8.3
<u></u>						120 Pumpino rate (I/min A	GPM)	3	0.8	3	a 🤊
Metho	of Construc	tion	V 500	Vell Use	al 🔲 Nat usad	20		4	<u> </u>	4	<u>~.</u>
Rotary (Co	nventional)	letting	mestic	Commercia Municipal	Dewatering	Duration of pumping		1 	8.0		<u>9.2</u>
Rotary (Re	verse)	Driving	estock	Test Hole		hrs +		5	9.6	5	<u> </u>
Air percuss	ion	Jigging 🔄 Irrig Ind	gation 🔄 ustrial	Cooling & A	AIF Conditioning	Final water level end of		10	9.8	10	<u>8.2</u>
Other, spe	cify	<u> </u>	ner, specify	· · · · · · · · · · · · · · · · · · ·	······································	If flowing give rate (I/n	nin / GPM)	15	Q A	15	Q 🤉
	Construc	tion Record - Cas	sing		Status of Well			20		20	<u> </u>
Inside Diameter	Open Hole OR M (Galvanized, Fibre	aterial Wall glass, Thickness			Water Supply	Recommended pump	depth (m/ft)		<u> 9.0</u>	25	<u> </u>
(cm(n))	Concrete, Plastic,	Steel) (cm(in)	⊢rom	10 L		Recommended pump	rate	20	9.6	20	<u>9.2</u> -
644	Steel	.188	+21	821	Recharge Well Dewatering Mol	(Vmin (GPM)		30	8.6	30	<u> </u>
60	()nan Mala		82 /	ian / [Observation and/or	20 Well production (l/min	/ GPM)	40	9.8	40	<u>8.2</u>



