



September 22, 2021

Our File Ref.: 210341

Al Roberts  
61 Strachan St, Box 1305  
Richmond, Ontario K0A 2Z0

Subject: Hydrogeological Assessment and Terrain Analysis - Proposed Mixed Use Dog Kennel and Dwelling, 5969 Ottawa Street, Richmond, Ontario

Dear Mr. Roberts,

LRL Associates Ltd. (LRL) has conducted a Hydrogeological Assessment and Terrain Analysis Study for a proposed change in land use that would allow development on private water and wastewater services for a portion of the property located at 5969 Ottawa Street. The proposed development is a two-storey prefab building. The first floor would include a kennel to shelter up to four (4) dogs for service training. The second floor would include a two (2) bedroom caretaker's residence. The development is proposed to be constructed on the portion of the property located east of Marlborough Creek at 5969 Ottawa Street, Richmond (herein referred to as the "Site").

The proposed development intends to operate on a private, on-site supply well for drinking water, as well as a private, on-site sewage system.

The assessment was carried out to determine if the proposed development:

- Has soil conditions that are suitable for onsite water supply and sewage disposal; and
- Will not impair the use of groundwater resources on the Site or on adjacent lands.

The assessment involved a desktop review of available information on the geology and hydrogeology of the Site and adjacent lands in addition to an intrusive subsurface investigation (test pitting program), and hydrogeological pumping test of the drinking water well installed at the Site in June 2021.

## 1 SITE AND AREA DESCRIPTION

The property is situated at the southeastern extent of Richmond at 5969 Ottawa Street, shown in **Figure 1**. For the purpose of this report, Ottawa St direction will be inferred as east-west.

The totality of the property is triangular in shape and approximately 2.22 hectares (5.44 acres). The portion being assessed for development (the Site) is irregularly shaped, approximately 0.90 hectares (2.22 acres), and bounded by Ottawa Street on the south, the Smith Falls rail corridor on the north, an industrial lot to the east, and the Marlborough Creek to the west. The Site is vacant, approximately two thirds treed with a flat, grassed section in the southeast corner which



is the proposed location of the new development. Site is zoned as RG3 – Rural General Industrial Zone (RG), Subzone 3.

The topography of the land is generally flat ranging from 94 to 95 m asl. The creek causes a slight dip in topography along the west side of the Site. GeoOttawa shows the majority of the treed portion of the Site is within a flood plain, and the grassed portion of the Site is outside of this floodplain.

These site features are shown in the **Figure 2**.

## **2 PROPOSED DEVELOPMENT**

It is understood that the development will be constructed within the grassed portion of the Site between the site boundaries and the flood plain of Marlborough Creek. The associated septic system will be to the south of the proposed building; the well will be to the north. The estimated proposed building footprint is 300 m<sup>2</sup>; 15 m by 20 m. The building will be slab on grade. A driveway will run from the southern border to the building. Number of parking spaces is unknown at the moment.

The approximate preliminary proposed development plan is shown in **Figure 3**. Further revisions with regards to the proposed septic system footprint and components may be required at a later date.

## **3 FIELDWORK**

### **3.1 Potable Water Sample Collection**

A sample of untreated water was collected from the supply water well at 5969 Ottawa Street, on July 20, 2021 to confirm the quality of the proposed supply aquifer prior to proceeding with the hydrogeological pumping test. The water was allowed to run for ten minutes before collection. The samples were collected using laboratory prepared bottles and were submitted for a subdivision package analysis. The laboratory Certificates of Analysis are included in **Appendix B**.

### **3.2 Test Pits**

On July 20, 2021, three (3) test pits were completed across the proposed severed lot to determine the general upper soil and groundwater conditions, as well as to establish the depth of overburden in the area over bedrock. The test pits were advanced using a backhoe operated by Landraulics Equipment (Richmond, Ontario). LRL was present to supervise and document the advancement of the test pits. The locations of the test pits are presented in **Figure 2** with the Test Pit Logs included in **Appendix A**

An open tube piezometer was installed in test pits TP21-1 through TP21-3 to allow for the elevation measurement and sampling of the perched water found in the overburden, herein referred to as groundwater. Groundwater samples could not be collected from the piezometers at the time of sampling on August 11, 2021, as they were found to be dry at the time of the sampling event.

Soil samples TP21-1-3, TP21-2-4, and TP-21-3-3 were submitted to LRL's geotechnical testing laboratory for grainsize analysis. The laboratory certificates of analysis are included in **Appendix C**.



### 3.3 Pumping test

LRL conducted a pumping test on the drilled well on August 11, 2021 in order to assess the quality and quantity of the aquifer. The test well was pumped for a total of 360 minutes (approximately 6 hours) at an average pumping rate of 40 L/min for the duration of the test.

The drawdown was measured during the pumping and recovery periods using an electronic water level tape. Following the pump's cessation, the pumping well's recovery was monitored until a minimum of 95% recovery was achieved.

## 4 TOPOGRAPHY, GEOLOGY AND HYDROGEOLOGY

Local topography indicates that the inferred overburden groundwater flow direction is east towards the North Castor River. The nearest open water body to the Site is an unnamed tributary that flows into the North Castor River, approximately 1.1 km east of the Site.

Surficial soil deposit mapping<sup>1</sup> indicates that the overburden consists of fine-textured glaciomarine deposits of massive to well laminated silt and clay, minor sand and gravel; with low permeability. Records from the Ontario Division of Mines<sup>2</sup> indicates that the underlying bedrock is Lower Ordovician period dolomite and sandstone from the March and Oxford Formation of the Beekmantown Group.

The test pits completed across the Site were found to have a thin layer of topsoil over clay with varying sand and silt contents that extends to 3.0 m below ground surface (bgs) where the test pits were terminated. A 0.3 m thick layer of boulders and cobbles is present between approximately 1.8 and 2.1 m bgs across all three test pits. Neither bedrock or groundwater were encountered during test pitting activities.

A representative overburden samples of the clay were collected from each test pit during the test pitting activities and submitted for sieve analysis. The shallower sample from 0.9 – 1.8 m bgs in TP21-1 was reported to be 77% silt & clay, 17% sand, and 6% gravel. This represents sandy loam with clay. Samples collected from TP21-2 and TP21-3 were collected between 1.8 and 2.7 m bgs and submitted for hydrometer analysis. The samples were reported to be approximately 57-62% clay and silt, 24-37% sand, and 7-13% gravel. This represents a sandy clay. These results are presented in the sieve and hydrometer certificates of analysis that are included in **Appendix C** and are summarized in **Table 2**. Clay loam will be used to define the soil infiltration factor and fine sandy loam will be used for moisture surplus.

Within the Rideau Valley Conservation Authority, 27,459 wells are recorded<sup>3</sup>. Of these, 4.2% are overburden wells, indicating that bedrock aquifers are the more significant water sources. The specific capacities of the 1,156 recorded overburden wells are as follows: 222 (19.2%) have no specific data, 27 (2.3%) have less than 1 L/min/m, 136 (11.8%) have between 1.0 – 5.0 L/min/m, 161 (13.9%) have between 5.0 – 10.0 L/min/m, 382 (33.1%), the greatest fraction, have between 10.0 – 50.0 L/min/m, and 228 (19.7%) have specific capacities that exceed 50.0 L/min/m.

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<sup>1</sup> The Ontario Geological Survey 2010. *Surficial geology of Southern Ontario*; Ontario Geological Survey, Miscellaneous Release—Data 128-REV

<sup>2</sup> Hewitt D.F., 1972. *Paleozoic Geology of Southern Ontario*; Ontario Div. Mines, GR105, 18p. Accompanied by Map 2254, scale 1 inch to 16 miles.

<sup>3</sup> Singer S.N., 2003, *The Hydrogeology of Southern Ontario – Second Edition*; Environmental Monitoring and Reporting Branch, Ministry of the Environment, 2003.

A search was conducted of the MECP Water Well Information System (WWIS). Searching by UTM coordinates within a 500 m radius from the site returned information for eighty-eight (88) wells; locations are presented in **Figure 4**. Available well records are included in **Appendix D**.

A review of the records within 500 m reveals that wells are drilled and extend into the bedrock, with an average depth of  $33.6 \pm 14.3$  m ( $n = 86$ ), ranging from 10.7 to 73.2 m. The reported geological conditions are relatively similar indicating an average overburden depth of  $6.9 \pm 2.9$  m ( $n = 86$ ) of mostly clay, underlain by limestone bedrock with occasional descriptions of sandstone. The general subsurface conditions reported for the twenty-five (25) wells in closest proximity to the site are found in the table below.

MOE Well Number	Distance and Direction from Site (m)	Depth (m)	Overburden Details			Bedrock Details	Groundwater Encountered (m)	Static Water Level (m)	Type of water
			Gravel (m)	Clay/ Hardpan (m)	Sand (m)	Bedrock			
1531908	48 (WSW)	64		0 – 10.7	10.7 – 12.5	12.5 – 48.8 (Limestone) 48.8 – 64.0 (Sandstone)	64.0	3.0	Unspecified
7121463	151 (WNW)	45.1		4.3 – 8.8 (Hardpan)	0 – 4.3 (Topsoil)	8.8 – 45.1 (Limestone)	43.3	4.0	Unspecified
7123927	157 (SSW)	25.6		0 – 4.6		4.6 – 25.6 (Limestone)	16.7, 21.0, 22.3	3.4	Unspecified
7123924	158 (SSW)	73.2		0 – 17.1		17.1 – 53.6 (Limestone)	17.7, 27.1, 70.7	3.4	Unspecified
7115740	162 (WNW)	45.1		0 – 6.1		6.1 – 45.1 (Limestone)	42.4	4.6	Unspecified
7123245	162 (WNW)	45.1		0 – 5.5		5.5 – 45.1 (Limestone)	43.6	4.9	Unspecified
1535453	171 (NW)	22.3		0 – 2.4 (Clay) 2.4 – 4.3 (Hardpan)		4.3 – 22.3 (Limestone)	8.5, 12.5, 16.2	4.0	Unspecified
7121464	172 (NW)	45.1		4.3 – 7.0 (Hardpan)	0 – 4.3 (Topsoil)	7.0 – 45.1 (Limestone)	43.3	3.7	Unspecified
7123247	178 (WNW)	45.1		0 – 5.8		5.8 – 45.1 (Limestone)	42.7	4.0	Unspecified
7139891	184 (NW)	37.5		0 – 4.3		4.3 – 37.5 (Limestone)	34.4	4.0	Unspecified
7127126	190 (WNW)	51.8		0 – 6.1		6.1 – 43.0 (Limestone) 43.0 – 51.8 (Sandstone)	50.6	4.3	Unspecified





MOE Well Number	Distance and Direction from Site (m)	Depth (m)	Overburden Details			Bedrock Details	Groundwater Encountered (m)	Static Water Level (m)	Type of water
			Gravel (m)	Clay/ Hardpan (m)	Sand (m)	Bedrock			
7112996	194 (WNW)	45.1		0 – 6.1		6.1 – 45.1 (Limestone)	41.8	4.0	Unspecified
7123244	198 (WNW)	45.1			0 – 5.8 (Topsoil)	5.8 – 45.1 (Limestone)	43.9	4.0	Unspecified
7112957	205 (NW)	29.9		0 – 6.1		6.1 – 29.9 (Limestone)	27.7	4.6	Unspecified
1535994	205 (SSW)	29.6		0 – 3.7		3.7 – 29.6 (Limestone)	24.4, 27.4	1.8	Unspecified
7119244	211 (WNW)	48.8		0 – 5.8		5.8 – 48.8 (Limestone)	46.6	4.3	Unspecified
7127128	213 (W)	29.9			0 – 6.1 (Topsoil)	6.1 – 29.9 (Limestone)	25.9	3	Unspecified
7127131	216 (W)	45.1			0 – 6.1 (Topsoil)	6.4 – 45.1 (Limestone)	35.1, 43.3	4	Unspecified
7139854	225 (NW)	45.1		0 – 4.3		4.3 – 45.1 (Limestone)	43.6	4	Unspecified
7115738	229 (NW)	45.1			0 – 5.5	5.5 – 45.1 (Limestone)	42.4	4.3	Unspecified
7112965	232 (WNW)	37.5		0 – 5.5		5.5 – 37.5 (Limestone)	35.7	4	Unspecified
7139835	235 (NW)	45.1		0 – 6.4		6.4 – 45.1 (Limestone)	43.6	3.7	Unspecified
7112983	240 (W)	29.9		0 – 4.6		4.6 – 29.9 (Limestone)	12.2, 27.4	2.7	Unspecified
7119251	242 (W)	47.2		0 – 4.6		4.6 – 47.2 (Limestone)	44.8	4	Unspecified
7139902	245 (W)	45.1			0 – 4.9 (Topsoil)	4.9 – 45.1 (Limestone)	27.4, 43.3	4.6	Unspecified

#### 4.1 Groundwater from Test Pits

Standpipe piezometers were installed in the bottom of each of the three (3) test pits. Groundwater samples were to be collected from the piezometers. At the time of sampling on August 11, 2021, all three (3) piezometers were found to be dry.



## 5 WATER SUPPLY ASSESSMENT

The supply well of 5969 Ottawa Street (A320977) used as part of this assessment was installed by the client in June 2021 within the limestone bedrock aquifer. The location of the newly installed supply is shown in **Figure 2**. This well was installed to serve as the drinking water well for the Site, and was tested directly as part of the assessment.

### 5.1 Quality

The chemistry of the water was determined by the sampling of untreated water from the supply water well at 5969 Ottawa Street (A320977) which was installed in June 2021 by the client for future drinking water supply at the proposed development.

**Table 1** summarizes the water analysis and also includes the relative Ontario Drinking Water Standards (ODWS) (O. Reg. 169/03) for the parameters tested. The analytical results for the six (6) hour sample meet the ODWS for the parameters tested except for the following:

- Hardness was reported to be 509 mg/L in the six (6) hour sample, above the Operational Guideline (OG) of 100 mg/L and D-5-5 guideline of 500 mg/L. High levels of hardness can lead to scale deposits and excessive scum with regular soaps upon heading the water. Hardness can be reduced through the use of a water softener; however the use of sodium chloride as a regenerant for the resins can increase the sodium content of the water.
  - The Langelier Saturation Index (LSI) is used to determine the calcium carbonate stability of water and the pH at which water is saturated with calcium carbonate (pHs). The Ryznar Stability Index (RI) is used to determine the aggressiveness of water which can indicate the scale and corrosion potential. The calculations for RI and LSI for the six (6) hour sample are shown in **Table 2**. Using a water temperature of 10°C, the LSI was calculated to be 0.66 which indicates the water is scale forming but non-corrosive. The RI was calculated to be 6.47 which indicates light scale or corrosion.
- Colour with a value of 30 TCU at the 6 hour samples, above the AO of 5 TCU and the level considered reasonably treatable of 7 TCU. Although the level of colour is above the value considered reasonable treatable, color can be reduced by use of an AC filter or a water softener.
- TDS was reported at 814 mg/L after six (6) hours, above the ODWS AO of 500 mg/L. TDS can be reduced through the use of a water softener; however, the use of sodium chloride as a regenerant for the resins can increase the sodium content of the water. For individuals with sodium restricted diets, potassium chloride can be substituted for sodium in the ion-exchange system to lower the TDS in the water supply.
- Turbidity was reported to be 4.9 NTU after six (6) hours, below the AO of 5 NTU but above the MAC of 1.0 NTU if the treatment system is required to provide filtration. Turbidity measures the suspended solids and the relative clarity of the water. Turbidity can reduce the aesthetics of water and also reduce the efficiency of disinfection of microbiological parameters, such as in treatment processes requiring filtration.
- Chloride was reported to be 264 mg/L after six (6) hours, above the ODWS AO and D-5-5 level considered reasonably treatable of 250 mg/L. Chloride can cause a salty taste in the water. Chloride is found in nature in various forms, including salts such as sodium



(NaCl), potassium (KCl) and calcium (CaCl<sub>2</sub>) chloride. A reverse osmosis treatment system can be used to lower level of chloride in drinking water.

- Iron exceeded the 0.3 mg/L ODWS value with a level of 0.5 mg/L. This is below the MECP D-5-5 level considered reasonable treatable of 5 mg/L. Iron can be reduce through the use of a water softener or an manganese greensand filter.
- Sodium was reported to be 111 mg/L after six (6) hours, which is above the ODWS AO but within the level considered reasonably treatable in Procedure D-5-5 of 200 mg/L. The concentration is above the 20 mg/L warning level notification limit for those on a sodium restricted diet. The local Medical Officer of Health should be notified of these levels so that this information may be communicated to local physicians with regards to homeowners who follow a sodium-restricted diet. Sodium can be reduced through the use of a point-of-use reverse osmosis system, if required.

## 5.2 Quantity

### 5.2.1 6-Hr Pump Test

The initial static water level was measured as 2.96 m btc. The drawdown after six (6) hours of pumping was 2.17 m. This represents approximately 5% of the available drawdown in the well. The specific capacity of the well after six (6) hours of pumping was calculated to be 0.307 L/s/m. The calculation is presented in **Table 3**. The well achieved approximately 96% recovery within 60 minutes of the end of pumping, at which time further monitoring was ceased as targets had been achieved.

### 5.2.2 Aquifer Characteristics

Following the completion of the constant rate pumping test, the data was analysed using the Aquifer Test software package, by Waterloo Hydrogeologic. The data underwent Theis and Agarwal-Theis Recovery analysis, the results of which are shown in the table below. Graphical analyses are provided for reference purposes in **Appendix E**.

Based on the information gathered from the pump test, the wells' transmissivity and coefficient of storage were calculated using the average of the Theis logarithmic approximation for the drawdown and Agarwal/Theis for the recovery. The specific yield of the well was calculated using the information obtained from the pump test, the transmissivity and coefficient of storage. The yield takes into account a minimum safety factor of 3. The characteristics of the well are summarized in the table below. The yield was calculated using the safety factor, therefore the theoretical yields can be higher.

Parameter	Test Well (No.)
	6 Hour Test
Transmissivity (m <sup>2</sup> /day)	25.4
Coefficient of Storage	5.2 x 10 <sup>-3</sup>
Pumping Rate (L/min)	40
Available Drawdown (m)	27.1
Maximum Drawdown (m)	2.13
% Drawdown	5%
Specific Yield (m <sup>3</sup> /day/m drawdown)	26.5
Maximum Pumping Rate (L/min)	111.5
Long Term Availability (m <sup>3</sup> /day)	160.6



The required quantity of water is generally based on a per-person requirement of 450 L/day of water per day. As a conservative estimate, each dog being cared for was considered a person for the purposes of the water demand calculation. Therefore, the two-bedroom dwelling (caretaker unit upstairs) under residential standards must support up to three (3) people, for a total of 1,350 L. Adding four (4) dogs with a highly conservative 450 L/day requirement for a total of 1,800 L/day, the grand total required quantity per day is 3,150 L/day (3.15 m<sup>3</sup>/day).

Based on the observed drawdown/recovery relationship, it is concluded that the long-term yield of the test well is in excess of minimum daily demand of 3,150 L. The maximum pumping rate is also more than sufficient to supply a peak flow demand of 26.25 L/min for seven “people” (three persons and four dogs) for a residential/commercial water supply as indicated in MECP Procedure D-5-5, with additional capacity to spare for any washroom facilities for clients or similar needs.

## 6 TERRAIN ANALYSIS

The terrain analysis was conducted to demonstrate that the unconsolidated material on the site is appropriate for the construction of an on-site subsurface sewage disposal system.

The subsurface conditions indicated for the site are considered suitable for a Class IV septic sewage disposal system with a fully raised leaching bed depending on the lot specific soil and groundwater conditions at the actual location of the proposed septic system leaching bed. The leaching bed should be constructed to conform to the specifications set out in the Ontario Building Code (OBC).

As part of this assessment, an analysis was carried out to ensure that sufficient space exists at the proposed severed lots for the construction of a septic system in accordance with the OBC. As a conservative approach to determining the expected largest septic system envelope required to service both the main floor dog kennel and second floor dwelling at the proposed development, a septic system envelope size was calculated assuming a fully raised bed with mantle, a percolation rate of 12 min/cm for the imported sand required and a daily sewage flow as calculated below:

<b>Ontario Building Code: 8.2.1.3 - Sewage System Design Flows</b>				
(Values from Table 8.2.1.3.A and 8.2.1.3.B)				
<b>Use</b>	<b>Design Flow per Unit (L)</b>	<b>Units</b>	<b>Number of Units</b>	<b>Design Flow Subtotal (L)</b>
Two Bedroom Dwelling	1100	Dwellings	1	1100
<i>Veterinary Clinic</i> <sup>(1)</sup> (Per employee per 8 hr shift)	75	Employees <sup>(2)</sup>	2	150
<i>Veterinary Clinic</i> <sup>(1)</sup> (Per stall, kennel or cage if floor drain connected)	75	Animals	4 <sup>(3)</sup>	300
<b>Total</b>				<b>1,550</b>

**Notes**



- (1) Veterinary clinic was the considered the closest applicable property use in the OBC table for animal kenneling. No veterinary services are to be completed on Site.
- (2) Assumes employees work one 8-hr shift per day, and spend the rest of the day in the caretaker suite.
- (3) Based on client statement that up to a maximum of four (4) dogs will be kenneled at any one time.

Based on a daily design flow of 1,550 L per day as calculated above, a total length of pipe required for the septic beds, assuming imported fill, was calculated as 93 m:

$$L = QT/200$$

where L = length of pipe (m)

Q = daily sewage flow for the existing dwelling (L/day)

T = percolation rate of the imported sand fill material (min/cm)

Therefore an area of approximately 160 m<sup>2</sup> is required for the septic bed assuming 10 pipes each having a length of 10 m each and a spacing of 1.6 between the pipes. A mantle of 15 m in length would be required along the down gradient portion of the bed. Based on the total coverage of the septic bed (raised portion and mantle plus a replacement area) would be approximately 800 m<sup>2</sup>.

The proposed development property has an area of approximately 9,000 m<sup>2</sup>. Accordingly, it is considered that sufficient area exists at the proposed development for the installation of a septic system in accordance with the OBC to service both the dog kennelling business and a two bedroom dwelling with a design sewage flow of up to 1,550 L/day. An example of an appropriate Site layout with both the septic and proposed development, is shown in **Figure 3**.

## 7 GROUNDWATER IMPACT ASSESSMENT

The groundwater impact assessment addresses the ability of the land to attenuate the sewage effluent created by the development. Three methods for conducting the assessment are outlined in MOE's *Procedure D-5-4 Technical Guideline for Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment* (1996):

- *Lot Size Consideration* for lot greater than 10 000 m<sup>2</sup>;
- *System Isolation Consideration* for areas where the septic system is hydrogeologically isolated from the potable water source; and
- *Contaminate Attenuation Consideration* for sites that do not meet the above two points.

Based on the review of the available information and site visit (above) the site is not obviously hydrogeologically sensitive (i.e. karstic areas, areas of fractured bedrock at the surface, areas of thin soil over highly permeable soils).

In this hydrogeological assessment "**Contaminant Attenuation**" was considered.

### 7.1 Contamination Attenuation Method (Predictive Assessment)

The Contaminant Attenuation Method (Predictive Assessment) was used to determine the impact of the individual on-site septic systems at the boundary of the severed lot. This procedure assesses the risk that the individual on-site systems will cause the concentration of the nitrate-nitrogen at the boundary to exceed 10 mg/L at the property boundaries. Dilution is the only



attenuation mechanism considered for nitrate-nitrogen, with precipitation being the only source of infiltration. The following parameters and assumptions were used in the nitrate-nitrogen attenuation calculations:

Infiltration factors for the proposed development property are;

- Flat topography;
- **Infiltration Factors:**
  - i. Based on the soil gradation completed on samples from the test pits showed the soil to be sandy silt across the Site. As such clay loam was used for this calculation;
  - ii. Based approximate measurements from aerial photos of the property, it was determined that around 6,079 m<sup>2</sup> of the property is woodland, and the remaining 2,897 m<sup>2</sup> is cultivated land. Due to most of the forested land being within the floodplain, it is assumed that this ratio will be maintained during the Site development;
- **Moisture Surplus:**
  - i. The forested portion of the property was considered closed mature forest, and the remaining area was considered moderately rooted crops as the post development ground cover,
  - ii. Fine sandy loam as defined by the sieve and hydrometer testing.
- Groundwater was not encountered in the test pit piezometers. Therefore it is assumed that background nitrate-nitrogen concentration is 0 mg/L;
- Impervious areas of 300 m<sup>2</sup> for the building and 240 m<sup>2</sup> of paved driveway; and,
- Moisture surplus values from the Ottawa weather station (Environment Canada, 2011).

The detailed calculations for the proposed severed lot, that is proposed to be developed, is presented in the attached **Table 4**. Based on the proposed lot size and soil conditions, the calculated levels of nitrate-nitrogen at the property limits (down gradient) will be 6.83 mg/L for the proposed developed lot, east of the river. This is below the procedure's guideline of 10.0 mg/L at the properties' boundaries. Based on the "**Contaminant Attenuation Method**" the currently proposed lot size and soil conditions are suitable to attenuate the nitrate-nitrogen impacts generated by the septic systems on the development.

## 8 CONCLUSIONS

Based on our review of available information and the results of the groundwater sampling and laboratory analytical program, we conclude the following:

- The proposed development can be adequately and safely supplied with potable water.
- Sufficient area exists at the proposed developed lot for a well and the installation of a septic system in accordance with the OBC to service the dog kenneling business and



the upstairs two-bedroom caretaker dwelling with a design sewage flow of up to 1,550 L/day.

- The lot area is of sufficient size to attenuate the impacts of the proposed septic system to 6.83 mg/L, based on the “**Contaminant Attenuation Method**” using the 40 mg/L as the contaminant source as per section 7.1.
- Surrounding lands are serviced by private wells and septic/holding tanks sewage systems, including domestic wells within 500 m of the Site. The potable water source of these wells is the bedrock aquifer. A layer of either clay or sand being between 4.3 and 12.5 m thick over bedrock (limestone).
- The results of the six (6) hour sample submitted from the test well generally met the Procedure D-5-5 and ODWS limits for the tested parameters with the following exceptions:
  - Hardness was reported to be 509 mg/L in the six (6) hour sample, above the Operational Guideline (OG) of 100 mg/L. High levels of hardness can lead to scale deposits and excessive suds with regular soaps upon heating the water.
  - Colour was reported to be 30 TCU, above the AO of 5 TCU and the level considered treatable under D-5-5 of 7 TCU. Colour affects the aesthetics of water and make it appear yellow or brown.
  - TDS was reported at 814 mg/L after six (6) hours, above the ODWS AO of 500 mg/L.
  - Turbidity was reported to be 4.9 NTU after six (6) hours, below the AO of 5 NTU but above the MAC of 1.0 NTU if the treatment system is required to provide filtration. Turbidity measures the suspended solids and the relative clarity of the water.
  - Chloride was reported to be 264 mg/L after six (6) hours, above the ODWS AO and D-5-5 level considered reasonably treatable of 250 mg/L. Chloride can cause a salty taste in the water.
  - Iron exceeded the 0.3 mg/L ODWS value with a level of 0.5 mg/L. This is below the MECP D-5-5 level considered reasonable treatable of 5 mg/L.
  - Sodium was reported to be 111 mg/L after six (6) hours, which is above the ODWS AO, but with the levels considered reasonably treatable in Procedure D-5-5 of 200 mg/L. The concentration is above the 20 mg/L warning level notification limit for those on a sodium restricted diet.

## 9 RECOMMENDATIONS

1. Treatment options should be considered on an individual basis. Conventional treatment options exist for the parameters exceeding the ODWS and D-5-5 guidelines, which include the following:
  - a. Hardness and TDS can be reduced through the use of a water softener;
  - b. Iron can be reduce through the use of a water softener or an manganese greensand filter;
  - c. Colour, turbidity, chloride and sodium can be reduced by a point-of-use reverse osmosis system.



2. The well should be located upgradient of any septic field beds. The drilled well should be a minimum distance of 15 m from any septic beds and 15 m from other wells.
3. Water should be tested on an individual basis and a water treatment specialist be consulted prior to the final design and installation of any water treatment system.
4. The water treatment system should be maintained on a regular basis in accordance with the manufacturer's recommendations to ensure that it is properly functioning and providing a safe drinking water.
5. The residence is advised to have their water regularly analysed for bacteria and septic indicator parameters, such as chloride, ammonia, nitrates, nitrites, Total Kjeldahl Nitrogen, E. Coli and Total Coliforms.
6. The owner should maintain their well as outlined in the Ontario Ministry of Agricultural and Rural Affairs Best Management Series – Water Wells.
7. The subsurface conditions indicated for the proposed lots are considered suitable for a Class IV septic sewage disposal system with a partially to fully raised leaching bed depending on the specific soil and groundwater conditions at the actual leaching bed locations. Sewage system designs shall be based on specific investigations to evaluate the suitability of local conditions on each lot. The system should be designed using the percolation time of the native and imported sand and according to the Ontario Building Code (OBC). The leaching beds should be constructed to conform to the specifications set out in the OBC.

## 10 LIMITATIONS

The findings contained in this report are based on data and information collected during the Terrain Analysis of the subject property conducted by LRL Associates Ltd. The conclusions and recommendations are based solely on site conditions encountered at the time of our fieldwork on July 20, 2021 and August 11, 2021, supplemented by historical information and data obtained as described in this report. The information presented in this report represents the groundwater conditions at the locations sampled. Due to natural variations in geological conditions, no inference is made to the soil or groundwater conditions between sampling points. No assurance is made regarding changes in conditions subsequent to the time of this investigation. If additional information is discovered or obtained, LRL Associates Ltd. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.

In evaluating the subject property, LRL Associates Ltd. has relied in good faith on information provided by individuals as noted in this report. We assume that the information provided is factual and accurate. We accept no responsibility for any deficiencies, misstatements or inaccuracies contained in this report as a result of omissions, misinterpretation or fraudulent acts of the persons contacted.





A. Roberts, Owner  
5969 Ottawa Street, Richmond, ON  
September 22, 2021

LRL File: 210341

Page 13 of 14

Yours truly,  
LRL Associates Ltd.



Jessica Arthurs  
Senior Environmental Technician



Alex Wood, P. Eng.  
Lead Environmental Engineer



Encl.

Figure 1 – Site Location

Figure 2 – Site Plan

Figure 3 – Site Plan - Proposed Layout

Figure 4 – Well Locations, Ontario Well Records Within 500 m of the Site

Table 1 – Summary of Supply Well Water Quality

Table 2 – Langelier and Ryznar Calculations

Table 3 – Specific Capacity and Longterm Availability

Table 4 – Nitrate Attenuation Calculations

Appendix A – Test Pit Logs

Appendix B – Laboratory Certificates of Analysis

Appendix C – Sieve & Hydrometer Analysis

Appendix D – Ontario Well Record Printouts

Appendix E – Aquifer Test Analysis



## FIGURES



**LRJ**

ENGINEERING | INGÉNIÉRIE

5430 Canotek Road | Ottawa, ON, K1J 9G2  
www.lrj.ca | (613) 842-3434

PROJECT

HYDROGEOLOGICAL ASSESSMENT AND TERRAIN ANALYSIS,  
5969 OTTAWA STREET,  
RICHMOND, ON

DRAWING TITLE

SITE LOCATION  
(NOT TO SCALE)  
SOURCE: GEOOTTAWA

CLIENT

Al Roberts

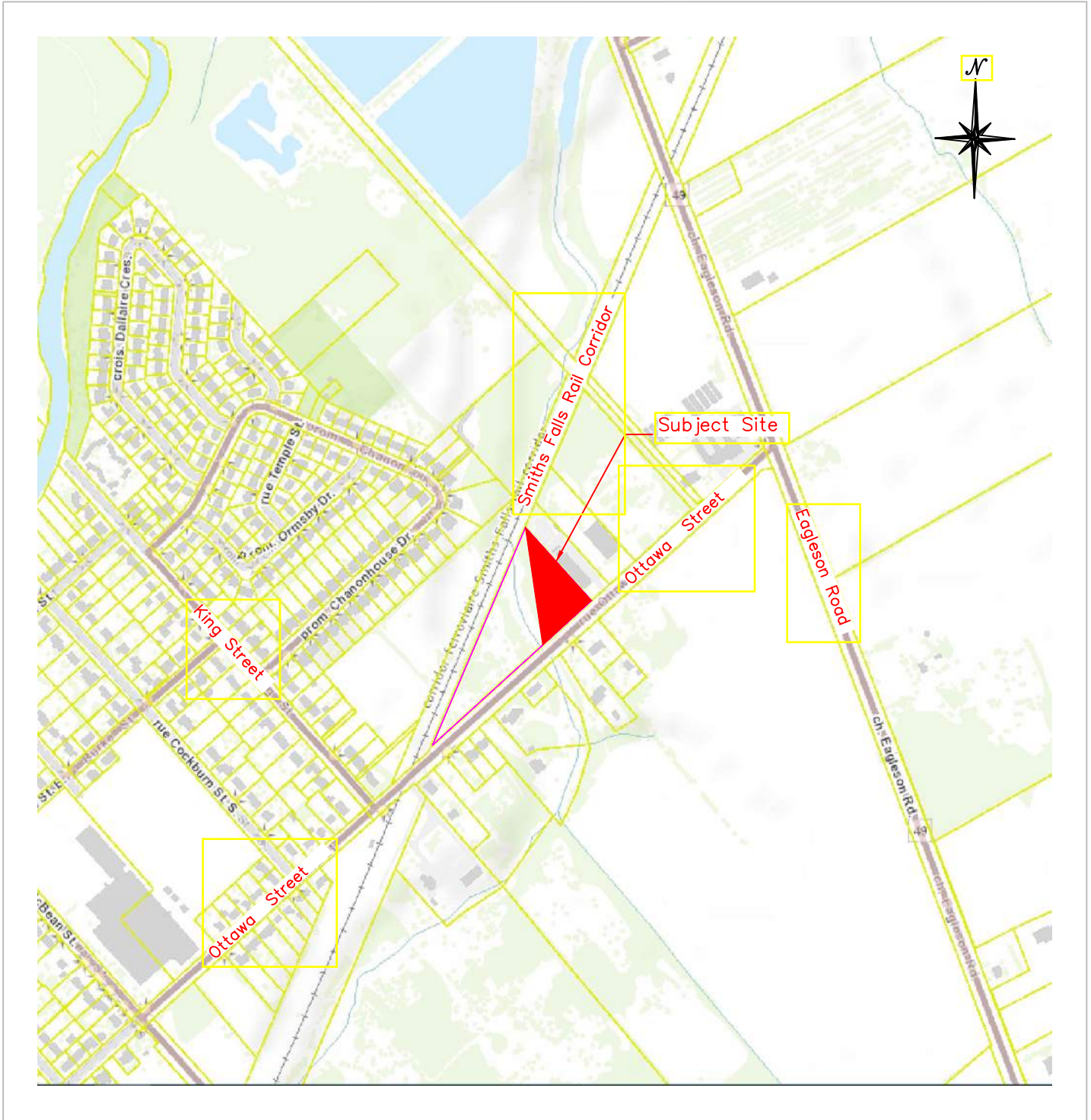
DATE

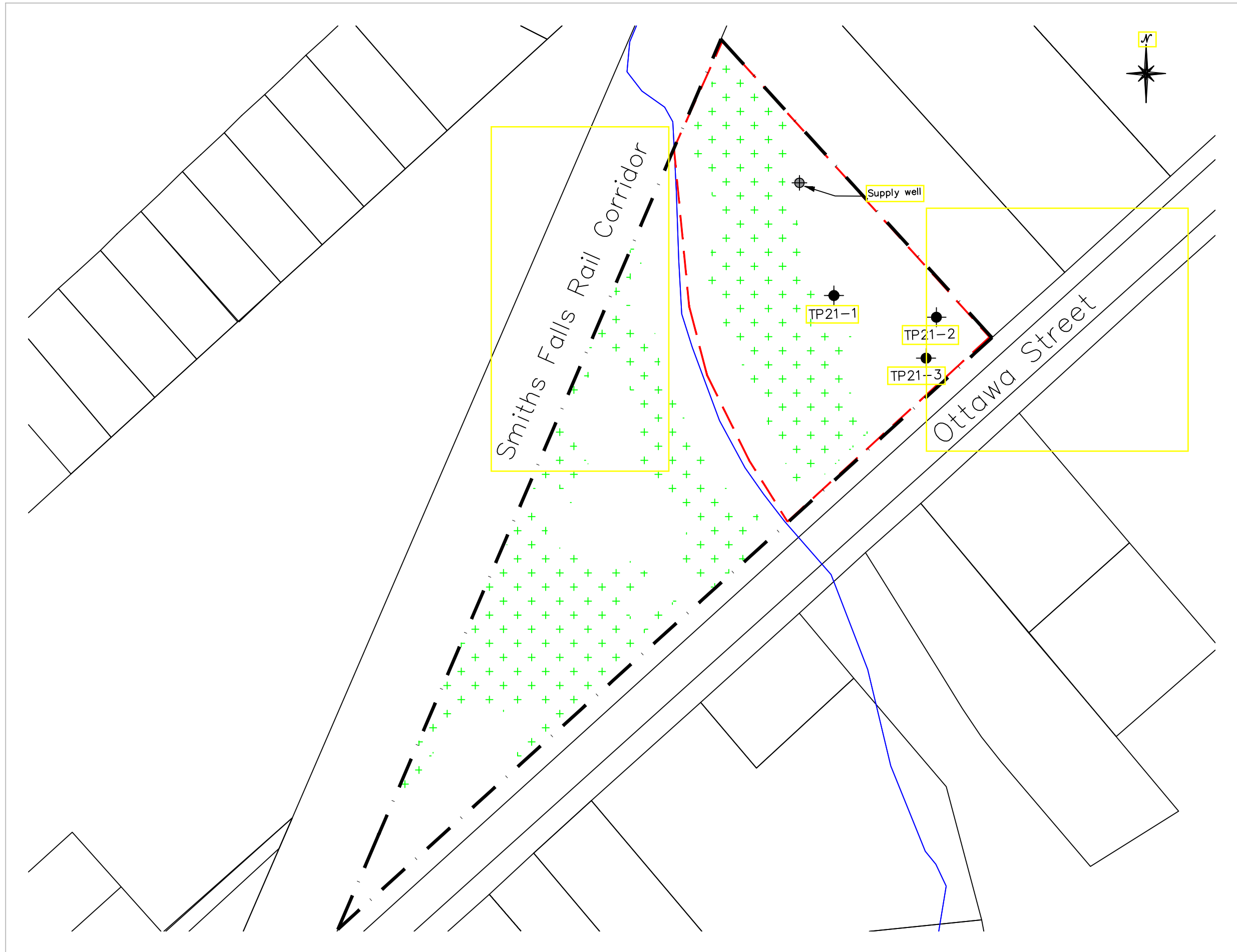
SEPTEMBER 2021

PROJECT


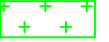



210341

**FIGURE 1**





**LEGEND**

-  Property Line
-  Tree Line
-  Existing Supply Well
-  Proposed Development Area
-  Test Pit Location



SCALE: 1:1000

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	A.K.	22/09/21



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5430 Canotek Road | Ottawa, ON, K1J 9G2  
www.lrj.ca | (613) 842-3434

CLIENT  
**AL ROBERTS**

DESIGNED BY: --      DRAWN BY: A.K.      APPROVED BY: A.W.

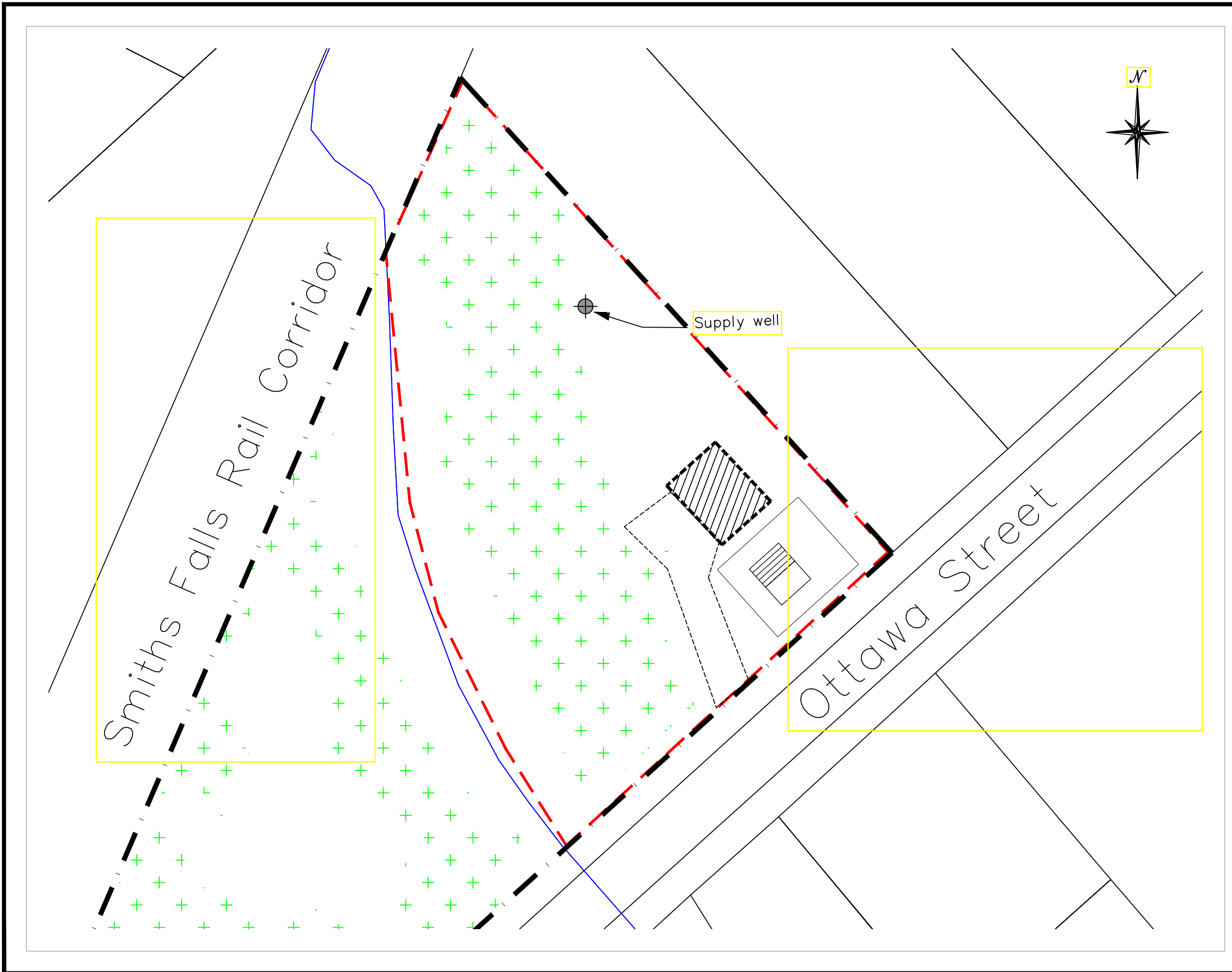
PROJECT  
HYDROGEOLOGICAL ASSESSMENT AND  
TERRAIN ANALYSIS,  
5969 OTTAWA STREET,  
RICHMOND, ON

DRAWING TITLE  
**SITE PLAN**

PROJECT NO.  
**210341**

DATE  
September 2021

FIGURE 2

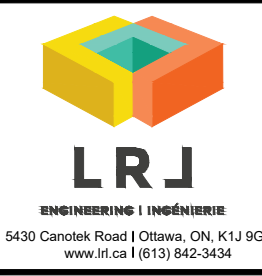


**LEGEND**

	Property Line
	Approximate Extents of Proposed Driveway
	Existing Residence
	Tree Line
	Existing Supply Well
	Proposed Development Area
	Proposed Residence
	Proposed Septic



No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	A.K.	22/09/21



CLIENT

**AL ROBERTS**

DESIGNED BY:	DRAWN BY:	APPROVED BY:
--	A.K.	A.W.

PROJECT

HYDROGEOLOGICAL ASSESSMENT AND  
TERRAIN ANALYSIS,  
5969 OTTAWA STREET,  
RICHMOND, ON

DRAWING TITLE

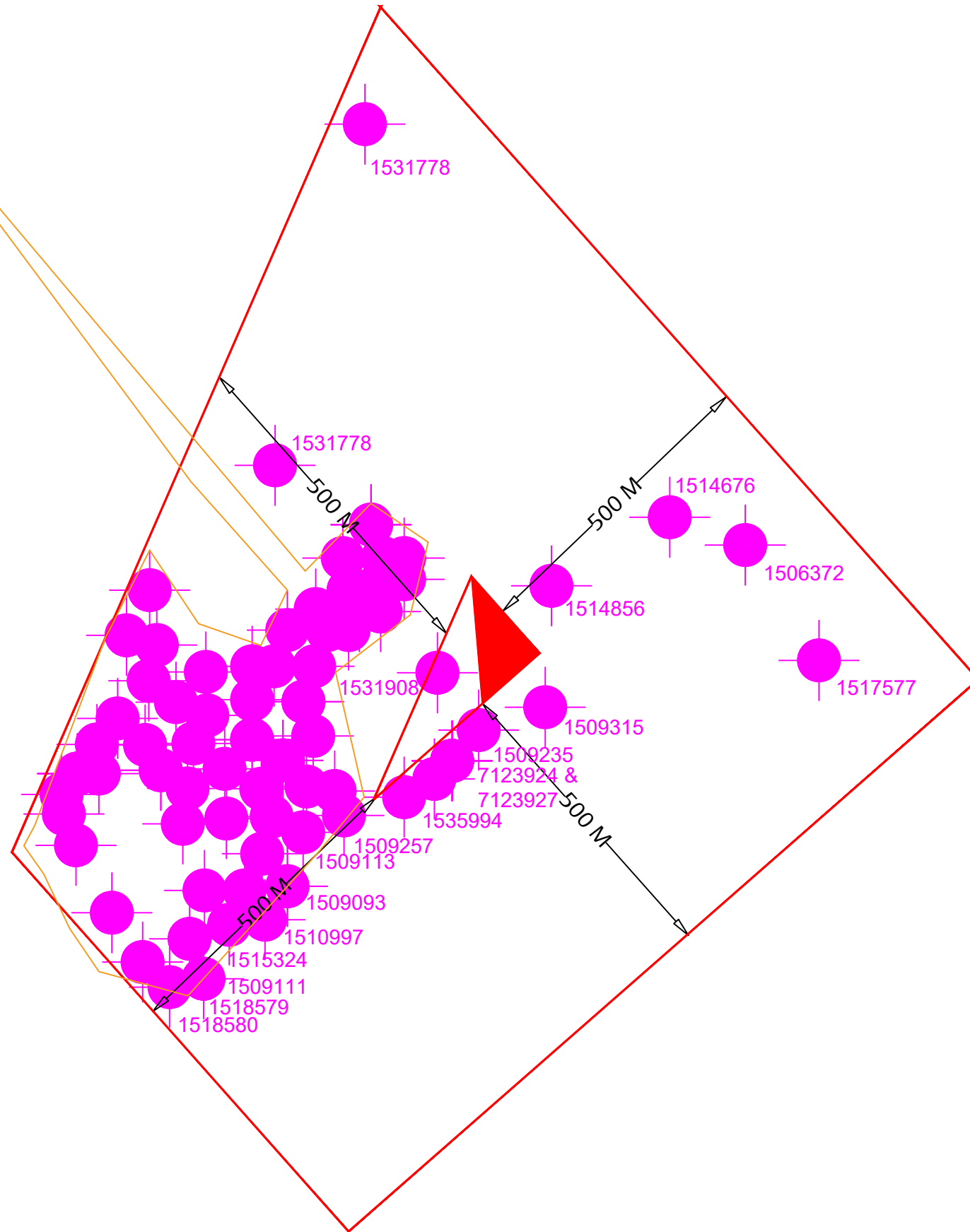
SITE PLAN -  
PROPOSED DEVELOPMENT

PROJECT NO.  
210341

DATE  
September 2021

**FIGURE 3**

Well Numbers within 500m		
1511083	1509776	7115740
1517199	1517853	7121463
7110589	1510032	1535453
1511257	1509128	7121464
1518220	7050800	7139891
1509128	1509303	7139854
1516664	7312601	7112957
1510624	1533080	7115738
1509169	7119243	7139835
1509139	7139853	1531665
1509116	7112967	1510783
1510301	7119247	1510923
1516543	7127125	1510028
1509189	7112936	1509800
1509215	7124495	1510409
1509161	1535487	1509163
1516764	7124496	1509271
1510052	7113006	1509311
1511338	7119251	1509158
1509721	7139902	1509159
1510064	7112983	1509162
1509316	7127131	7158862
1509798	7127128	1509159
1510620	7112965	1509153
1509972	7119244	1509154
1509280	7112996	1509155
1510411	7123244	7040817
1509291	7123245	1511103
1509799	7123247	
7194537	7127126	



**Legend**

XXXX Well

Approximate Site Location

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	A.K.	22/09/21



CLIENT  
**AL ROBERTS**

DESIGNED BY: --      DRAWN BY: A.K.      APPROVED BY: A.W.

PROJECT  
HYDROGEOLOGICAL ASSESSMENT AND  
TERRAIN ANALYSIS,  
5969 OTTAWA STREET,  
RICHMOND, ON

DRAWING TITLE  
**WELLS WITHIN 500 m OF THE SITE**

PROJECT NO.  
210341

DATE  
September 2021

**FIGURE 4**

## TABLES



**Table 1**  
**Summary of Supply Well Water Quality**  
Hydrogeological Assessment and Terrain Study - Proposed Mix Use Development  
5969 Ottawa Street, Richmond, Ontario  
LRL File No. 210341

Parameter	Units	Ontario Drinking Water Standards				Sample		
		MRL	Standard	Type	MECP D-5-5 <sup>5</sup>	SA-1	3 hr	6 hr
<b>Sample Date (d/m/y)</b>						<b>20.07.2021</b>	<b>11.08.2021</b>	<b>11.08.2021</b>
<b>Microbiological Parameters</b>								
Chlorine (Field Measurement)	ppm	0.01				--	0.03	0.00
E. Coli	CFU/100 mL	1	0	MAC		<1	<1	<1
Fecal Coliforms	CFU/100 mL	1	0 <sup>1</sup>	MAC		<1	<1	<1
Heterotrophic Plate Count	CFU/ml	10	--			190	280	120
Total Coliforms	CFU/100 mL	1	0/5 <sup>1</sup>	MAC		<b>13</b>	<1	<1
<b>General Inorganics</b>								
Alkalinity, total	mg/L	5	30 - 500	OG		274	269	269
Ammonia as N	mg/L	0.01	--			0.13	0.12	0.12
Dissolved Organic Carbon	mg/L	0.5	5	AO	10	0.7	1.8	1.9
Colour	TCU	2	5	AO	7	<b>25</b>	<b>21</b>	<b>30</b>
Conductivity	uS/cm	5	--			1560	1550	1530
Hardness	mg/L	1	80 - 100	OG	500	<b>532</b>	<b>514</b>	<b>509</b>
pH	pH Units	0.05	6.5 - 8.5	OG		7.7	7.8	7.8
Phenolics	mg/L	0.001	--			<0.001	0.001	0.001
Total Dissolved Solids	mg/L	10	500	AO		<b>874</b>	<b>796</b>	<b>814</b>
Sulphide	mg/L	0.02	0.05	AO		<0.02	<0.02	<0.02
Tannin & Lignin	mg/L	0.1	--			<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.1	--			0.2	0.2	0.1
Organic Nitrogen	mg/L		0.15	OG		0.07	0.08	-0.02
Turbidity	NTU	0.1	1/5 <sup>2</sup>	MAC/AO	5	<b>7.9</b>	<b>5.2</b>	4.9
<b>Anions</b>								
Chloride	mg/L	1	250	AO	250	<b>267</b>	<b>266</b>	<b>264</b>
Fluoride	mg/L	0.1	1.5 <sup>3</sup> /2.4	MAC		0.3	0.4	0.4
Nitrate as N	mg/L	0.1	10	MAC		<0.1	<0.1	<0.1
Nitrite as N	mg/L	0.05	1	MAC		<0.05	<0.05	<0.05
Sulphate	mg/L	1	500	AO	500	99	82	82
<b>Metals</b>								
Calcium	mg/L	0.2	--			126	125	124
Iron	mg/L	0.2	0.3	AO	5/10	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>
Magnesium	mg/L	0.2	--			52.7	49.4	48.4
Manganese	mg/L	0.005	0.05	AO	1	0.018	0.016	0.016
Potassium	mg/L	0.2	--			9.1	8.5	8.1
Sodium	mg/L	0.2	20 <sup>4</sup> /200	AO	200	<b>115</b>	<b>114</b>	<b>111</b>

**NOTES**

- MRL** Minimum Reportable Limit
- MAC** Maximum Acceptable Concentration
- AO** Aesthetic Objective
- OG** Operational Guideline
- ODWS** Ontario Drinking Water Standards (2006)
- NA** Not Analysed
- UNDERLINE** Parameter level above ODWS
- Italics** Notify Medical Officer of Health
- BOLD** Parameter level above D-5-5 maximum treatability limits

<sup>1</sup> As per Table 1 of MECP's technical guideline "D-5-5 Private Wells: Water Supply Assessment"

<sup>2</sup> 1.0 NTU MAC if treatment system required to provide filtration for disinfection. 5.0 NTU AO for all points of consumption

<sup>3</sup> Where supplies of naturally occurring fluoride at levels above 1.5 mg/L but below 2.4 mg/L the Ministry of Health recommends notification of local board of health of levels to avoid excesses exposure from other sources.

<sup>4</sup> Limit at which Local Medical Officer of Health should be notified of Levels.

<sup>5</sup> MECP D-5-5 guideline, maximum concentration considered reasonably treatable

**Table 2**  
**Langelier and Ryznar Calculations**  
Hydrogeological Assessment and Terrain Study - Proposed Mix Use Development  
5969 Ottawa Street, Richmond, Ontario  
LRL File No. 210341

**Analyzed Parameters**

TDS (mg/L)	814
Hardness(mg/L)	509
alkalinity(mg/L)	269
pH (pH units)	7.8
Temperature °C	10

**Langelier**

LSI = pH - pHs

$$\text{pHs} = (9.3 + A + B) - (C + D) \quad \text{Where} \quad \begin{array}{l} A = (\text{Log}_{10}(\text{TDS}) - 1) / 10 = 0.1910624 \\ B = (-13.12 * \text{Log}_{10}(\text{T}^{\circ}\text{C} + 273) + 34.55) = 2.382562 \\ C = \text{Log}_{10}(\text{Hardness}) - 0.4 = 2.3067178 \\ D = \text{Log}_{10}(\text{Alkalinity}) = 2.4297523 \end{array}$$

**Ryznar**

RI = 2pHs - pH

pHs=	7.137154
LSI=	0.662846
RI=	6.474309

**Table 3**  
**Specific Capacity and Longterm Availability**  
Hydrogeological Assessment and Terrain Study - Proposed Mix Use Development  
5969 Ottawa Street, Richmond, Ontario  
LRL File No. 210341

Tested By: LRL Associates Ltd.  
Test Date: 11-Aug-21

Ri =  
L - screen  
H = change in head

Well	Cs - Static mTOC	Cp - Pump* mTOC	Cp - Cs	Drawdown (m)	Pumping Rate L/min	Sc - Specific Capacity L/sec/m	Qsc -Maximum Pumping Rate L/min	Long Term Availability m <sup>3</sup> /day	Qsc GPM (US)	Qsc GPM (IMP)
<b>TW1</b>	2.96	30.05	27.1	2.17	40.0	0.307	111.5	160.6	29.5	24.5

**Notes:**

$$Q_{sc} = 0.67 \frac{(C_p - C_s) S_c}{SF}$$

- Qsc Pumping rate with safety factor (SF) of 3 (L/min);
- C<sub>p</sub> - C<sub>s</sub> Difference between pump level and static water level (m);
- S<sub>c</sub> Specific capacity (L/min/m); and
- 0.67 Is a factor that compensates for the variation of the static water level due to
- SF 3
- Minimum Dem 3.150 m<sup>3</sup>/Lot/day
- \* Assumed
- Greater than Minimum Demand
- Less than Minimum Demand
- TOC Top of Casing

**Table 4**  
**Nitrate Attenuation Calculations**

Hydrogeological Assessment and Terrain Study - Proposed Mix Use Development  
5969 Ottawa Street, Richmond, Ontario  
LRL File No. 210341

### 1. Potential Infiltration

Weather Station    Ottawa

No.	Section Area (m <sup>2</sup> )	Infiltration Factor (IF) <sup>1</sup>							Moisture Surplus (MS)				Potential Infiltration (PI) (IF*MS) (mm)	
		Topography	Value	Soil	Value	Cover	Value	Total	Ground Cover	Soil Type	Moisture Retention <sup>2</sup> (mm)	Moisture Surplus <sup>3</sup> (mm)	Section	Weighted
1	6,079	Flat	0.3	Clay Loam	0.2	Woodland	0.2	0.7	Closed Mature Forest	2 Fine Sandy Loam	300	306	214.2	145.1
2	2,897	Flat	0.3	Clay Loam	0.2	Cultivated Land	0.1	0.6	Moderately Rooted Crops	2 Fine Sandy Loam	150	336	201.6	65.1
<b>Total</b>		8,976							<b>Total</b>				210.1	

### 2. Area Available for Infiltration

Number of Lots	n	1
Approximate footprint of house/garage	H	300 m <sup>2</sup>
Approximate area of paved driveways	d <sup>4</sup>	240 m <sup>2</sup>
Approximate Length of Road	L	0 m
Approximate Width of Road	w	0 m
Total Area of Property		8976 m <sup>2</sup>
Impervious Area		540.0 m <sup>2</sup>
Roads	l x w	0 m <sup>2</sup>
Driveway	n x d	240 m <sup>2</sup>
Houses	n x H	300 m <sup>2</sup>
<b>Area available Infiltration</b>	<b>A</b>	<b>8,436 m<sup>2</sup></b>

### 3. Nitrate Dilution Calculations

Nitrate Concentration of Infiltration	C <sub>i</sub>	0 mg/L
Site Infiltration	Q <sub>i</sub> = A*PI	1773 m <sup>3</sup>
Daily Sewage Volume per Lot <sup>5</sup>	Q <sub>d</sub>	1 m <sup>3</sup>
Maximum Yearly Sewage Volume (water)	Q <sub>e</sub> = 365*n*Q <sub>d</sub>	365 m <sup>3</sup>
Nitrate Concentration in Sewage <sup>5</sup>	C <sub>e</sub>	40 mg/L
Maximum Allowable Nitrate Concentration at Boundary	C <sub>m</sub>	10.0 mg/L
Increase in Nitrate Concentration at Boundaries	C = (Q <sub>e</sub> C <sub>e</sub> + Q <sub>i</sub> C <sub>i</sub> ) / (Q <sub>e</sub> + Q <sub>i</sub> )	6.83 mg/L

#### NOTES

<sup>1</sup> Table 2: Infiltration Factors, *Hydrological Technical Information Requirements for Land Development Applications*, Ministry of the Energy and Environment, April 1995.

<sup>2</sup> Thornthwaite and Mather's (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.

<sup>3</sup> Moisture surplus for data for Ottawa ON (Environment Canada Meteorological Service of Canada, 2010).

<sup>4</sup> Area based on 10m long and 3m wide driveways

<sup>5</sup> As per *Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment*, Ministry of the Energy and Environment, August 1996.

**APPENDIX A**  
**Test Pit Logs**



**Project No.:** 210341

**Client:** Al Roberts

**Date:** 20.07.2021

**Excavation Method:** Backhoe KX121-3

**Test Pit Log: TP21-1**

**Project:** Hydrogeological Assessment & Terrain Analysis

**Location:** 5969 Ottawa Street, Richmond, Ontario

**Field Personnel:** DC

**Excavation Contractor:** Landraulics Equipment

SUBSURFACE PROFILE		SAMPLE DATA			Water Content (%)			Water Level (Standpipe or Open Excavation)				
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa)				Liquid Limit (%)			
					50	100	150		200	25	50	75
0	Ground Surface	0.00										
0	<b>Top Soil</b> Sandy loam, fine-grained, dark brown with light brown traces, dry.	0.00		S1								
1	<b>Silty Clay</b> Dry, brown with some grey.	-0.30 0.30		S2								
1	<b>Sandy Clay</b> Dry, brown.	-0.90 0.90		S3								
4				S6 duplicate								
5	<b>BouldERS</b>	-1.50 1.50										
2	<b>Sandy Clay</b> Dry, brown.	-1.80 1.80		S4								
3	End of Test Pit	-2.75 2.75										

Dry

**Easting:** 0435611

**Northing:** 5004477

**Site Datum:** Base of concrete hydro pole in SW corner of site (100.00 m)

**Groundsurface Elevation:** 99.478

**Top of Riser Elev.:** 99.867

**Excavation Width:** 1.65 m

**Excavation Length:** 0.9 m



**Project No.:** 210341

**Client:** Al Roberts

**Date:** 20.07.2021

**Excavation Method:** Backhoe KX121-3

**Test Pit Log: TP21-2**

**Project:** Hydrogeological Assessment & Terrain Analysis

**Location:** 5969 Ottawa Street, Richmond, Ontario

**Field Personnel:** DC

**Excavation Contractor:** Landraulics Equipment

SUBSURFACE PROFILE		SAMPLE DATA			Water Content (%)			Water Level (Standpipe or Open Excavation)					
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa)				Liquid Limit (%)				
					×	100	150		200	×	□	25	50
0	Ground Surface	0.00											
0	<b>Top Soil</b> Sandy loam, fine-grained, dark brown with light brown traces, dry.	0.00		S1									
1	<b>Silty Clay</b> Dry, brown, with some discolouration like oxidation	-0.30 0.30		S2 S5									
3	<b>Sandy Clay</b> Dry, brown. some discolouration.	-0.90 0.90		S3									
6	<b>Cobbles</b>	-1.80 1.80											
7	<b>Clayey Sand</b> Brown, moist	-2.10 2.10		S4									
9	End of Test Pit	-2.75 2.75											

Dry

**Easting:** 0435644

**Northing:** 504444

**Site Datum:** Base of concrete hydro pole in SW corner of site (100.00 m)

**Groundsurface Elevation:** 99.929

**Top of Riser Elev.:** 100.310

**Excavation Width:** 1.6 m

**Excavation Length:** 1.1 m



**Project No.:** 210341

**Client:** Al Roberts

**Date:** 20.07.2021

**Excavation Method:** Backhoe KX121-3

**Test Pit Log: TP21-3**

**Project:** Hydrogeological Assessment & Terrain Analysis

**Location:** 5969 Ottawa Street, Richmond, Ontario

**Field Personnel:** DC

**Excavation Contractor:** Landraulics Equipment

SUBSURFACE PROFILE		SAMPLE DATA			Water Content (%)			Water Level (Standpipe or Open Excavation)				
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa)				Liquid Limit (%)			
					50	100	150		200	25	50	75
0	Ground Surface	0.00										
0	<b>Sandy Clay</b> Dry, brown.	0.00		S1								Dry
1												
2												
3												
3	<b>Silty Clay</b> Dry, brown/grey, some discolouration like oxidation.	-0.90 0.90		S2								
4												
5												
6												
6	<b>Cobbles</b>	-1.80 1.80										
7												
7	<b>Silty Clay</b> Dry, brown.	-2.10 2.10		S3								
8												
9												
10	End of Test Pit	-3.00 3.00										

**Easting:** 0435628      **Northing:** 5004423

**Site Datum:** Base of concrete hydro pole in SW corner of site (100.00 m)

**Groundsurface Elevation:** 99.676      **Top of Riser Elev.:** 100.096

**Excavation Width:** 1.5 m      **Excavation Length:** 1.1 m



**APPENDIX B**  
**Laboratory Certificates of Analysis**

## Certificate of Analysis

**LRL Associates Ltd.**

5430 Canotek Road  
Ottawa, ON K1J 9G2  
Attn: Devin Clouthier

Client PO:  
Project: 210341  
Custody: 14477

Report Date: 23-Jul-2021  
Order Date: 20-Jul-2021

**Order #: 2130209**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2130209-01	SA-1

Approved By:



Dale Robertson, BSc  
Laboratory Director

Certificate of Analysis  
 Client: LRL Associates Ltd.  
 Client PO:

Report Date: 23-Jul-2021  
 Order Date: 20-Jul-2021  
 Project Description: 210341

### Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Alkalinity, total to pH 4.5	EPA 310.1 - Titration to pH 4.5	22-Jul-21	22-Jul-21
Ammonia, as N	EPA 351.2 - Auto Colour	21-Jul-21	21-Jul-21
Anions	EPA 300.1 - IC	21-Jul-21	21-Jul-21
Colour	SM2120 - Spectrophotometric	21-Jul-21	21-Jul-21
Conductivity	EPA 9050A- probe @25 °C	22-Jul-21	22-Jul-21
Dissolved Organic Carbon	MOE E3247B - Combustion IR, filtration	22-Jul-21	22-Jul-21
E. coli	MOE E3407	21-Jul-21	22-Jul-21
Fecal Coliform	SM 9222D	21-Jul-21	22-Jul-21
Heterotrophic Plate Count	SM 9215C	20-Jul-21	22-Jul-21
Metals, ICP-MS	EPA 200.8 - ICP-MS	21-Jul-21	21-Jul-21
pH	EPA 150.1 - pH probe @25 °C	22-Jul-21	22-Jul-21
Phenolics	EPA 420.2 - Auto Colour, 4AAP	21-Jul-21	21-Jul-21
Hardness	Hardness as CaCO <sub>3</sub>	21-Jul-21	21-Jul-21
Sulphide	SM 4500SE - Colourimetric	21-Jul-21	21-Jul-21
Tannin/Lignin	SM 5550B - Colourimetric	22-Jul-21	22-Jul-21
Total Coliform	MOE E3407	21-Jul-21	22-Jul-21
Total Dissolved Solids	SM 2540C - gravimetric, filtration	22-Jul-21	22-Jul-21
Total Kjeldahl Nitrogen	EPA 351.2 - Auto Colour, digestion	21-Jul-21	22-Jul-21
Turbidity	SM 2130B - Turbidity meter	21-Jul-21	21-Jul-21

Certificate of Analysis

Report Date: 23-Jul-2021

Client: LRL Associates Ltd.

Order Date: 20-Jul-2021

Client PO:

Project Description: 210341

<b>Client ID:</b>	SA-1	-	-	-
<b>Sample Date:</b>	20-Jul-21 12:30	-	-	-
<b>Sample ID:</b>	2130209-01	-	-	-
<b>MDL/Units</b>	Drinking Water	-	-	-

**Microbiological Parameters**

E. coli	1 CFU/100 mL	ND	-	-	-
Fecal Coliforms	1 CFU/100 mL	ND	-	-	-
Total Coliforms	1 CFU/100 mL	13	-	-	-
Heterotrophic Plate Count	10 CFU/mL	190	-	-	-

**General Inorganics**

Alkalinity, total	5 mg/L	274	-	-	-
Ammonia as N	0.01 mg/L	0.13	-	-	-
Dissolved Organic Carbon	0.5 mg/L	0.7	-	-	-
Colour	2 TCU	25	-	-	-
Conductivity	5 uS/cm	1560	-	-	-
Hardness	mg/L	532	-	-	-
pH	0.1 pH Units	7.7	-	-	-
Phenolics	0.001 mg/L	<0.001	-	-	-
Total Dissolved Solids	10 mg/L	874	-	-	-
Sulphide	0.02 mg/L	<0.02	-	-	-
Tannin & Lignin	0.1 mg/L	<0.1	-	-	-
Total Kjeldahl Nitrogen	0.1 mg/L	0.2	-	-	-
Turbidity	0.1 NTU	7.9	-	-	-

**Anions**

Chloride	1 mg/L	267	-	-	-
Fluoride	0.1 mg/L	0.3	-	-	-
Nitrate as N	0.1 mg/L	<0.1	-	-	-
Nitrite as N	0.05 mg/L	<0.05	-	-	-
Sulphate	1 mg/L	99	-	-	-

**Metals**

Calcium	0.1 mg/L	126	-	-	-
Iron	0.1 mg/L	0.7	-	-	-
Magnesium	0.2 mg/L	52.7	-	-	-
Manganese	0.005 mg/L	0.018	-	-	-
Potassium	0.1 mg/L	9.1	-	-	-
Sodium	0.2 mg/L	115	-	-	-

Certificate of Analysis

Report Date: 23-Jul-2021

Client: LRL Associates Ltd.

Order Date: 20-Jul-2021

Client PO:

Project Description: 210341

**Method Quality Control: Blank**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	ND	1	mg/L						
Fluoride	ND	0.1	mg/L						
Nitrate as N	ND	0.1	mg/L						
Nitrite as N	ND	0.05	mg/L						
Sulphate	ND	1	mg/L						
<b>General Inorganics</b>									
Alkalinity, total	ND	5	mg/L						
Ammonia as N	ND	0.01	mg/L						
Dissolved Organic Carbon	ND	0.5	mg/L						
Colour	ND	2	TCU						
Conductivity	ND	5	uS/cm						
Phenolics	ND	0.001	mg/L						
Total Dissolved Solids	ND	10	mg/L						
Sulphide	ND	0.02	mg/L						
Tannin & Lignin	ND	0.1	mg/L						
Total Kjeldahl Nitrogen	ND	0.1	mg/L						
Turbidity	ND	0.1	NTU						
<b>Metals</b>									
Calcium	ND	0.1	mg/L						
Iron	ND	0.1	mg/L						
Magnesium	ND	0.2	mg/L						
Manganese	ND	0.005	mg/L						
Potassium	ND	0.1	mg/L						
Sodium	ND	0.2	mg/L						
<b>Microbiological Parameters</b>									
E. coli	ND	1	CFU/100 mL						
Fecal Coliforms	ND	1	CFU/100 mL						
Total Coliforms	ND	1	CFU/100 mL						
Heterotrophic Plate Count	ND	10	CFU/mL						

Certificate of Analysis

Report Date: 23-Jul-2021

Client: LRL Associates Ltd.

Order Date: 20-Jul-2021

Client PO:

Project Description: 210341

**Method Quality Control: Duplicate**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	129	1	mg/L	129			0.2	10	
Fluoride	0.74	0.1	mg/L	0.74			1.1	10	
Nitrate as N	ND	0.1	mg/L	ND			NC	10	
Nitrite as N	ND	0.05	mg/L	ND			NC	10	
Sulphate	48.8	1	mg/L	49.0			0.3	10	
<b>General Inorganics</b>									
Alkalinity, total	270	5	mg/L	274			1.4	14	
Ammonia as N	0.306	0.01	mg/L	0.299			2.4	17.7	
Dissolved Organic Carbon	2.0	0.5	mg/L	2.2			7.8	37	
Colour	25	2	TCU	25			0.0	12	
Conductivity	1540	5	uS/cm	1560			1.8	5	
pH	7.6	0.1	pH Units	7.7			0.1	3.3	
Phenolics	ND	0.001	mg/L	ND			NC	10	
Total Dissolved Solids	80.0	10	mg/L	74.0			7.8	10	
Sulphide	ND	0.02	mg/L	ND			NC	10	
Tannin & Lignin	ND	0.1	mg/L	ND			NC	11	
Total Kjeldahl Nitrogen	0.38	0.1	mg/L	0.40			5.4	16	
Turbidity	8.2	0.1	NTU	7.9			3.6	10	
<b>Metals</b>									
Calcium	9.0	0.1	mg/L	9.1			0.8	20	
Iron	ND	0.1	mg/L	ND			NC	20	
Magnesium	2.0	0.2	mg/L	2.0			0.9	20	
Manganese	ND	0.005	mg/L	ND			NC	20	
Potassium	0.7	0.1	mg/L	0.7			2.3	20	
Sodium	16.9	0.2	mg/L	17.4			2.8	20	
<b>Microbiological Parameters</b>									
E. coli	ND	1	CFU/100 mL	ND			NC	30	
Fecal Coliforms	4	1	CFU/100 mL	6			40.0	30	BAC04
Total Coliforms	ND	1	CFU/100 mL	ND			NC	30	
Heterotrophic Plate Count	ND	10	CFU/mL	ND			NC	30	

Certificate of Analysis

Report Date: 23-Jul-2021

Client: LRL Associates Ltd.

Order Date: 20-Jul-2021

Client PO:

Project Description: 210341

**Method Quality Control: Spike**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	139	1	mg/L	129	95.5	77-123			
Fluoride	1.63	0.1	mg/L	0.74	88.2	79-121			
Nitrate as N	1.02	0.1	mg/L	ND	102	79-120			
Nitrite as N	1.01	0.05	mg/L	ND	101	84-117			
Sulphate	58.0	1	mg/L	49.0	89.9	74-126			
<b>General Inorganics</b>									
Ammonia as N	0.541	0.01	mg/L	0.299	96.8	81-124			
Dissolved Organic Carbon	11.9	0.5	mg/L	2.2	96.6	60-133			
Phenolics	0.027	0.001	mg/L	ND	107	69-132			
Total Dissolved Solids	94.0	10	mg/L	ND	94.0	75-125			
Sulphide	0.50	0.02	mg/L	ND	101	79-115			
Tannin & Lignin	1.1	0.1	mg/L	ND	105	71-113			
Total Kjeldahl Nitrogen	2.39	0.1	mg/L	0.40	99.1	81-126			
<b>Metals</b>									
Calcium	18700	0.1	mg/L	9100	96.3	80-120			
Iron	2560	0.1	mg/L	17.9	102	80-120			
Magnesium	11400	0.2	mg/L	2050	93.4	80-120			
Manganese	53.6	0.005	mg/L	2.37	102	80-120			
Potassium	10600	0.1	mg/L	740	98.2	80-120			
Sodium	25100	0.2	mg/L	17100	80.3	80-120			

Certificate of Analysis

Report Date: 23-Jul-2021

Client: LRL Associates Ltd.

Order Date: 20-Jul-2021

Client PO:

Project Description: 210341

**Qualifier Notes:**

*Login Qualifiers :*

Sample - Filtered and preserved by Paracel upon receipt at the laboratory - Metals preserved in the lab

*Applies to samples: SA-1*

*Sample Qualifiers :*

*QC Qualifiers :*

BAC04 : Duplicate QC data falls within method prescribed 95% confidence limits.

**Sample Data Revisions**

None

**Work Order Revisions / Comments:**

None

**Other Report Notes:**

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated





2130209

No 14477

Client Name: LRL Associates	Project Ref: 210341	Waterworks Name:	Samples Taken By:
Contact Name: Devin Clauthier	Quote #:	Waterworks Number:	Name: Devin Clauthier
Address: 5430 Cavite Rd. Ottawa, ON	PO #:	Address:	Signature: <i>[Signature]</i>
After Hours Contact: " "	E-mail: dclauthier@lrl.ca		Page 1 of 1
Telephone: 613-842-3434	Fax:	Public Health Unit:	Turn Around Time Required: <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input checked="" type="checkbox"/> 4 day

Samples Submitted Under: (Indicate ONLY one)		Sample Type: R = Raw ; T = Treated ; D = Distribution; P = Plumbing							Required Analyses						
<input type="checkbox"/> ON REG 170/03 <input type="checkbox"/> ON REG 319/08 <input checked="" type="checkbox"/> Private Well <input type="checkbox"/> ON REG 243/07 <input type="checkbox"/> Other		Source Type: G = Ground Water; S = Surface Water													
Have LSN forms been submitted to MOE/MOHLTC?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Reportable: Requires AWQI reporting as per Regulation - Y = Yes; N = No													
Are these samples for human consumption?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Type: R/T/D/P	Source Type: G/S	Reportable: Y/N	Resample	SAMPLE COLLECTED		# of Containers	Free/Combined Chlorine Residual mg/L	Standing / Flushed: S/F (REG 243)	Total Coliform/E. Coll	HPC	Lead	THM	Substrate Package
All information must be completed before samples will be processed.															
LOCATION NAME	SAMPLE ID	DATE	TIME	# of Containers	Free/Combined Chlorine Residual mg/L	Standing / Flushed: S/F (REG 243)	Total Coliform/E. Coll	HPC	Lead	THM	Substrate Package				
1	SA-1	July 20/21	12:30	8											X
2															
3															
4															
5															
6															
7															
8															
9															
10															

Comments: metals bottle was not filtered, bottle was rinsed 3x before putting sample in it.

Method of Delivery: Drop Box

Relinquished By (Sign): <i>[Signature]</i>	Received By Driver/Depot: <i>[Signature]</i>	Received at Lab: <i>[Signature]</i>	Verified By: <i>[Signature]</i>
Relinquished By (Print): Devin Clauthier	Date/Time: July 20, 2021 14:28	Date/Time: July 20, 2021 15:01	
Date/Time: July 20/21 2pm	Temperature: °C	Temperature: 10.8 °C	pH Verified: <input checked="" type="checkbox"/> By: PS

## Certificate of Analysis

**LRL Associates Ltd.**

5430 Canotek Road  
Ottawa, ON K1J 9G2  
Attn: Abdul Kader Alhaj

Client PO:  
Project: 210341  
Custody: 15679

Report Date: 17-Aug-2021  
Order Date: 11-Aug-2021

**Order #: 2133418**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2133418-01	5969 Ottawa St. - Supply well 3 hr
2133418-02	5969 Ottawa St. - Supply well 6 hr

Approved By:



Mark Foto, M.Sc.  
Lab Supervisor

Certificate of Analysis  
 Client: LRL Associates Ltd.  
 Client PO:

Report Date: 17-Aug-2021  
 Order Date: 11-Aug-2021  
 Project Description: 210341

### Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Alkalinity, total to pH 4.5	EPA 310.1 - Titration to pH 4.5	12-Aug-21	12-Aug-21
Ammonia, as N	EPA 351.2 - Auto Colour	13-Aug-21	13-Aug-21
Anions	EPA 300.1 - IC	12-Aug-21	12-Aug-21
Colour	SM2120 - Spectrophotometric	12-Aug-21	12-Aug-21
Conductivity	EPA 9050A- probe @25 °C	12-Aug-21	12-Aug-21
Dissolved Organic Carbon	MOE E3247B - Combustion IR, filtration	12-Aug-21	12-Aug-21
E. coli	MOE E3407	12-Aug-21	13-Aug-21
Fecal Coliform	SM 9222D	12-Aug-21	13-Aug-21
Heterotrophic Plate Count	SM 9215C	12-Aug-21	12-Aug-21
Metals, ICP-MS	EPA 200.8 - ICP-MS	12-Aug-21	12-Aug-21
pH	EPA 150.1 - pH probe @25 °C	12-Aug-21	12-Aug-21
Phenolics	EPA 420.2 - Auto Colour, 4AAP	12-Aug-21	12-Aug-21
Hardness	Hardness as CaCO <sub>3</sub>	12-Aug-21	12-Aug-21
Sulphide	SM 4500SE - Colourimetric	17-Aug-21	17-Aug-21
Tannin/Lignin	SM 5550B - Colourimetric	13-Aug-21	13-Aug-21
Total Coliform	MOE E3407	12-Aug-21	13-Aug-21
Total Dissolved Solids	SM 2540C - gravimetric, filtration	13-Aug-21	16-Aug-21
Total Kjeldahl Nitrogen	EPA 351.2 - Auto Colour, digestion	12-Aug-21	12-Aug-21
Turbidity	SM 2130B - Turbidity meter	12-Aug-21	12-Aug-21

Certificate of Analysis

Report Date: 17-Aug-2021

Client: LRL Associates Ltd.

Order Date: 11-Aug-2021

Client PO:

Project Description: 210341

<b>Client ID:</b>	5969 Ottawa St. - Supply well 3 hr	5969 Ottawa St. - Supply well 6 hr	-	-
<b>Sample Date:</b>	11-Aug-21 11:10	11-Aug-21 14:10	-	-
<b>Sample ID:</b>	2133418-01	2133418-02	-	-
<b>MDL/Units</b>	Drinking Water	Drinking Water	-	-

**Microbiological Parameters**

E. coli	1 CFU/100 mL	ND	ND	-	-
Fecal Coliforms	1 CFU/100 mL	ND	ND	-	-
Total Coliforms	1 CFU/100 mL	ND	ND	-	-
Heterotrophic Plate Count	10 CFU/mL	280	120	-	-

**General Inorganics**

Alkalinity, total	5 mg/L	269	269	-	-
Ammonia as N	0.01 mg/L	0.12	0.12	-	-
Dissolved Organic Carbon	0.5 mg/L	1.8	1.9	-	-
Colour	2 TCU	21	30	-	-
Conductivity	5 uS/cm	1550	1530	-	-
Hardness	mg/L	514	509	-	-
pH	0.1 pH Units	7.8	7.8	-	-
Phenolics	0.001 mg/L	0.001	0.001	-	-
Total Dissolved Solids	10 mg/L	796	814	-	-
Sulphide	0.02 mg/L	<0.02	<0.02	-	-
Tannin & Lignin	0.1 mg/L	<0.1	<0.1	-	-
Total Kjeldahl Nitrogen	0.1 mg/L	0.2	0.1	-	-
Turbidity	0.1 NTU	5.2	4.9	-	-

**Anions**

Chloride	1 mg/L	266	264	-	-
Fluoride	0.1 mg/L	0.4	0.4	-	-
Nitrate as N	0.1 mg/L	<0.1	<0.1	-	-
Nitrite as N	0.05 mg/L	<0.05	<0.05	-	-
Sulphate	1 mg/L	82	82	-	-

**Metals**

Calcium	0.1 mg/L	125	124	-	-
Iron	0.1 mg/L	0.5	0.5	-	-
Magnesium	0.2 mg/L	49.4	48.4	-	-
Manganese	0.005 mg/L	0.016	0.016	-	-
Potassium	0.1 mg/L	8.5	8.1	-	-
Sodium	0.2 mg/L	114	111	-	-

Certificate of Analysis

Report Date: 17-Aug-2021

Client: LRL Associates Ltd.

Order Date: 11-Aug-2021

Client PO:

Project Description: 210341

**Method Quality Control: Blank**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	ND	1	mg/L						
Fluoride	ND	0.1	mg/L						
Nitrate as N	ND	0.1	mg/L						
Nitrite as N	ND	0.05	mg/L						
Sulphate	ND	1	mg/L						
<b>General Inorganics</b>									
Alkalinity, total	ND	5	mg/L						
Ammonia as N	ND	0.01	mg/L						
Dissolved Organic Carbon	ND	0.5	mg/L						
Colour	ND	2	TCU						
Conductivity	ND	5	uS/cm						
Phenolics	ND	0.001	mg/L						
Total Dissolved Solids	ND	10	mg/L						
Sulphide	ND	0.02	mg/L						
Tannin & Lignin	ND	0.1	mg/L						
Total Kjeldahl Nitrogen	ND	0.1	mg/L						
Turbidity	ND	0.1	NTU						
<b>Metals</b>									
Calcium	ND	0.1	mg/L						
Iron	ND	0.1	mg/L						
Magnesium	ND	0.2	mg/L						
Manganese	ND	0.005	mg/L						
Potassium	ND	0.1	mg/L						
Sodium	ND	0.2	mg/L						
<b>Microbiological Parameters</b>									
E. coli	ND	1	CFU/100 mL						
Fecal Coliforms	ND	1	CFU/100 mL						
Total Coliforms	ND	1	CFU/100 mL						
Heterotrophic Plate Count	ND	10	CFU/mL						

Certificate of Analysis  
 Client: LRL Associates Ltd.  
 Client PO:

Report Date: 17-Aug-2021  
 Order Date: 11-Aug-2021  
 Project Description: 210341

**Method Quality Control: Duplicate**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	264	5	mg/L	266			0.7	10	
Fluoride	0.35	0.1	mg/L	0.36			3.0	10	
Nitrate as N	ND	0.1	mg/L	ND			NC	10	
Nitrite as N	ND	0.05	mg/L	ND			NC	10	
Sulphate	83.9	1	mg/L	82.4			1.8	10	
<b>General Inorganics</b>									
Alkalinity, total	263	5	mg/L	269			2.3	14	
Ammonia as N	0.267	0.01	mg/L	0.267			0.0	17.7	
Dissolved Organic Carbon	1.9	0.5	mg/L	2.2			16.8	37	
Colour	20	2	TCU	21			4.9	12	
Conductivity	1530	5	uS/cm	1550			1.4	5	
pH	7.7	0.1	pH Units	7.8			0.1	3.3	
Phenolics	0.001	0.001	mg/L	0.001			8.0	10	
Total Dissolved Solids	62.0	10	mg/L	62.0			0.0	10	
Sulphide	ND	0.02	mg/L	ND			NC	10	
Tannin & Lignin	ND	0.1	mg/L	ND			NC	11	
Total Kjeldahl Nitrogen	ND	0.1	mg/L	0.20			NC	16	
Turbidity	5.3	0.1	NTU	5.2			2.1	10	
<b>Metals</b>									
Calcium	29.8	0.1	mg/L	30.0			0.7	20	
Iron	ND	0.1	mg/L	ND			NC	20	
Magnesium	7.9	0.2	mg/L	8.2			3.3	20	
Manganese	ND	0.005	mg/L	ND			NC	20	
Potassium	0.3	0.1	mg/L	0.3			2.7	20	
Sodium	11.8	0.2	mg/L	11.7			0.6	20	
<b>Microbiological Parameters</b>									
E. coli	ND	1	CFU/100 mL	ND			NC	30	
Fecal Coliforms	ND	1	CFU/100 mL	ND			NC	30	
Total Coliforms	ND	1	CFU/100 mL	ND			NC	30	

Certificate of Analysis

Report Date: 17-Aug-2021

Client: LRL Associates Ltd.

Order Date: 11-Aug-2021

Client PO:

Project Description: 210341

**Method Quality Control: Spike**

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Anions</b>									
Chloride	8.70	1	mg/L	ND	87.0	85-115			
Fluoride	1.27	0.1	mg/L	0.36	90.8	79-121			
Nitrate as N	1.03	0.1	mg/L	ND	103	79-120			
Nitrite as N	0.993	0.05	mg/L	ND	99.3	84-117			
Sulphate	90.6	1	mg/L	82.4	81.3	74-126			
<b>General Inorganics</b>									
Ammonia as N	0.522	0.01	mg/L	0.267	102	81-124			
Dissolved Organic Carbon	13.4	0.5	mg/L	2.2	112	60-133			
Phenolics	0.025	0.001	mg/L	0.001	96.5	69-132			
Total Dissolved Solids	94.0	10	mg/L	ND	94.0	75-125			
Sulphide	0.51	0.02	mg/L	ND	101	79-115			
Tannin & Lignin	1.1	0.1	mg/L	ND	106	71-113			
Total Kjeldahl Nitrogen	2.04	0.1	mg/L	0.20	92.1	81-126			
<b>Metals</b>									
Calcium	37600	0.1	mg/L	30000	76.1	80-120			QM-07
Iron	2350	0.1	mg/L	6.4	93.8	80-120			
Magnesium	16800	0.2	mg/L	8200	86.1	80-120			
Manganese	49.0	0.005	mg/L	0.448	97.1	80-120			
Potassium	9590	0.1	mg/L	307	92.9	80-120			
Sodium	20500	0.2	mg/L	11700	87.6	80-120			

Certificate of Analysis  
Client: LRL Associates Ltd.  
Client PO:

Report Date: 17-Aug-2021  
Order Date: 11-Aug-2021  
Project Description: 210341

**Qualifier Notes:**

*Sample Qualifiers :*

*QC Qualifiers :*

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

**Sample Data Revisions**

None

**Work Order Revisions / Comments:**

None

**Other Report Notes:**

n/a: not applicable  
ND: Not Detected  
MDL: Method Detection Limit  
Source Result: Data used as source for matrix and duplicate samples  
%REC: Percent recovery.  
RPD: Relative percent difference.  
NC: Not Calculated





Client Name: <b>LR Engineering</b>	Project Ref: <b>210341</b>	Waterworks Name:	Samples Taken By:
Contact Name: <b>Abdul Kader Alhaj</b>	Quote #:	Waterworks Number:	Name: <b>Abdul Kader Alhaj</b>
Address: <b>5430 Conster Rd.</b>	PO #:	Address:	Signature:
After Hours Contact:	E-mail: <b>a.kader@lr.ca</b> <b>awood@lr.ca</b>	Public Health Unit:	Page <b>1</b> of <b>1</b> Turn Around Time Required: <b>Regular</b> <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day
Telephone: <b>819 328 2592</b>	Fax:		

Samples Submitted Under: (Indicate ONLY one)		Sample Type: R = Raw ; T = Treated ; D = Distribution ; P = Plumbing		Source Type: G = Ground Water ; S = Surface Water		Reportable: Requires AWQI reporting as per Regulation - Y = Yes ; N = No		Required Analyses							
<input type="checkbox"/> ON REG 170/03 <input type="checkbox"/> ON REG 319/08 <input checked="" type="checkbox"/> Private Well <input type="checkbox"/> ON REG 243/07 <input type="checkbox"/> Other															
Have LSN forms been submitted to MOE/MOHLTC?: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Are these samples for human consumption?: <input type="checkbox"/> Yes <input type="checkbox"/> No		All information must be completed before samples will be processed.											
LOCATION NAME	SAMPLE ID	Sample Type: R/T/D/P	Source Type: G/S	Reportable: Y/N	Resample	SAMPLE COLLECTED		# of Containers	Free/Combined Chlorine Residual mg/L	Standing / Flushed: S/F (REG 243)	Total Coliform/E. Coli	HPC	Lead	THM	Subdivision
						DATE	TIME								
1	5969 Ottawa Street	5969 Ottawa - Supply well St.				Aug. 11. 2021	11:10 am	8							X
2	5969 Ottawa Street	5969 Ottawa - Supply well St.				Aug. 11. 2021	2:10 p.m	1							X
3															
4															
5															
6															
7															
8															
9															
10															

Comments:		Method of Delivery: <b>Drop Box</b>	
Relinquished By (Sign):	Received By Driver/Depot:	Received at Lab: <b>Jameer Dalmaji</b>	Verified By:
Relinquished By (Print): <b>Abdul Kader Alhaj</b>	Date/Time:	Date/Time: <b>AUG 11 2021 04:28</b>	Date/Time: <b>Aug 11 2021 9:42</b>
Date/Time: <b>11.08.2021, 4:10 p.m</b>	Temperature: °C	Temperature: <b>14.9</b> °C	pH Verified: <input checked="" type="checkbox"/> By:



TRUSTED.  
RESPONSIVE.  
RELIABLE.

300 - 2319 St. Laurent Blvd  
Ottawa, ON, K1G 4J8  
1-800-749-1947  
www.paracellabs.com

# Invoice

**Invoice Number: 2133418**

**Invoice Date: 17-Aug-21**

**LRL Associates Ltd.**

5430 Canotek Road  
Ottawa, ON K1J 9G2  
Attn: Abdul Kader Alhaj

Tel: (613) 842-3434  
Fax: (613) 446-1427

Paracel Report No.: **2133418**  
Client Project(s): **210341**  
Client PO:  
Quote Number:  
CoC Number: **15679**

Order Date: 11-Aug-21

Qty	Analysis	Final Price	Rush Surcharge	Total Price
2	Subdivision Package	\$273.21	0%	\$546.42
			Subtotal:	\$546.42
			HST	\$71.03
<b>Invoice Total:</b>				<b>\$617.45</b>

Terms: Due when rendered, service charge of 1.5% per month on accounts over 30 days net.  
GST/HST # 104066345

Remit payment to: Paracel Laboratories Ltd.  
300-2319 St. Laurent Blvd.  
Ottawa, Ontario, K1G 4J8

**APPENDIX C**  
**Sieve & Hydrometer Analysis**



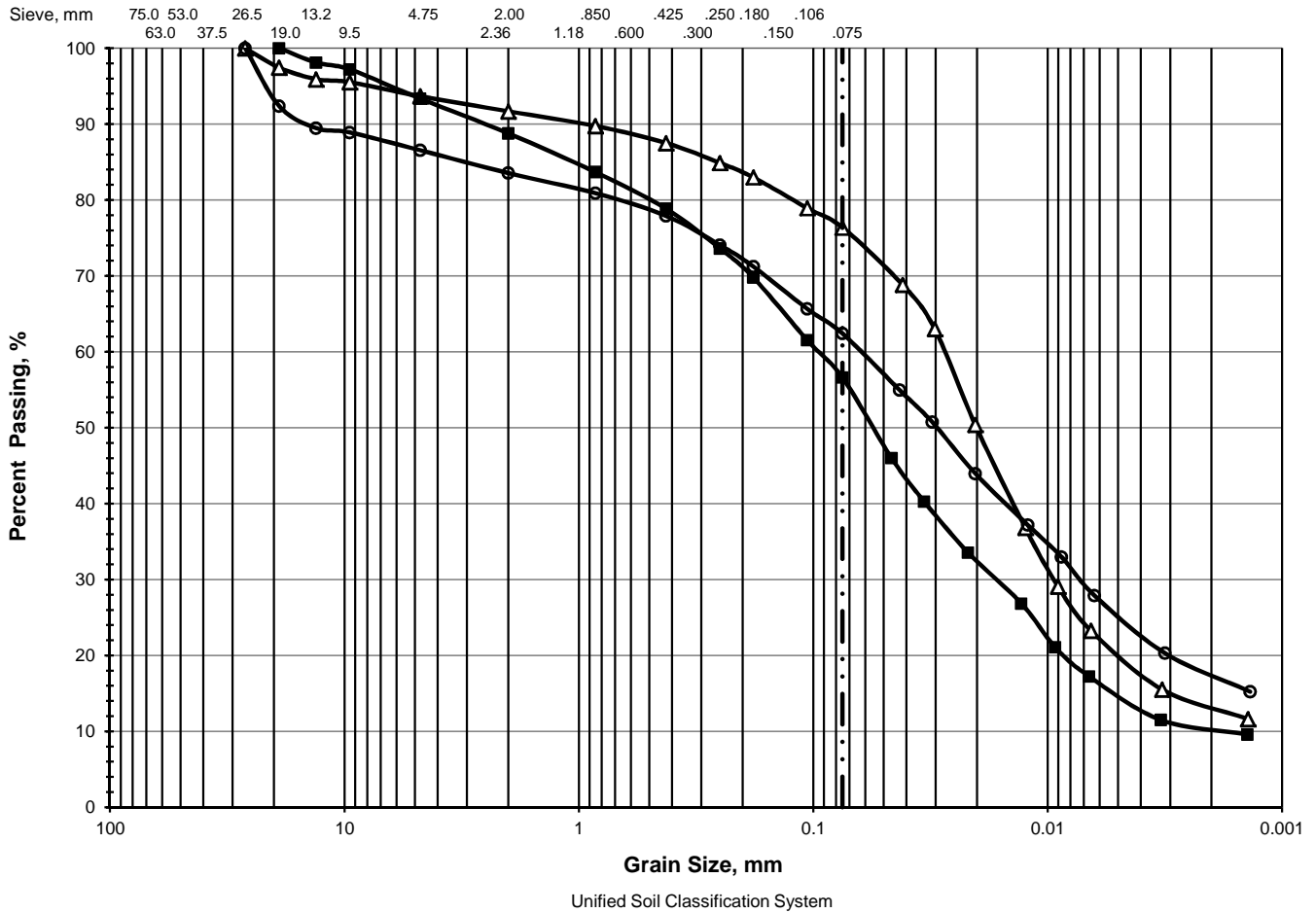
LRL Associates Ltd.

# PARTICLE SIZE ANALYSIS

ASTM D 422 / LS-702

Client: Al Roberts  
 Project: Hydrogeological Assessment  
 Location: 5969 Ottawa Street, Ottawa, ON

File No.: 210341  
 Report No.: 1  
 Date: July 20, 2021



> 75 mm	% GRAVEL		% SAND			% FINES		
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
△	0.0	2.2	4.1	2.0	4.2	11.1	63.5	12.9
■	0.0	0.0	6.7	4.6	9.9	22.2	46.4	10.2
○	0.0	6.6	6.8	3.0	5.6	15.5	45.5	17.0

Location	Sample	Depth, m	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	C <sub>c</sub>	C <sub>u</sub>
△	TP 1	3	0.9 - 1.8	0.0279	0.0201	0.0094	0.0030		
■	TP 2	4	1.8 - 2.7	0.0964	0.0571	0.0171	0.0053	1.7	53.6
○	TP 3	3	1.8 - 2.7	0.0646	0.0299	0.0073			



**APPENDIX D**  
**Ontario Well Record Printouts**

JB

UTM 18Z 435975 E

31644



WATER RESOURCES DIVISION  
 REG. NO. 1965/6372  
 ONTARIO WATER RESOURCES COMMISSION

(15R 5004385N

The Ontario Water Resources Commission Act

# WATER WELL RECORD

Elev. 42 10305

Basin 25 | | | | | ABLETON

Township, Village, Town or City NEPEAN

Con. 6 R.F. Lot 4

Date completed 5 APRIL 65  
(day month year)

Address Greenwood

### Casing and Screen Record

Inside diameter of casing 4  
 Total length of casing 38  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 4

### Pumping Test

Static level 20  
 Test-pumping rate 5 G.P.M.  
 Pumping level 35  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test clear  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 70 feet below ground surface

### Well Log

### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Water Record	
			Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>COARSE GRAVEL</u>	<u>0</u>	<u>20</u>		
<u>FINE</u>	<u>20</u>	<u>30</u>		
<u>" BED SAND</u>	<u>30</u>	<u>38</u>		
<u>Limestone</u>	<u>28</u>	<u>86</u>	<u>85</u>	<u>FRESH</u>

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 F.P. SPARKS

Address STEELEVILLE

Licence Number 1600

Name of Driller or Borer F.P. SPARKS

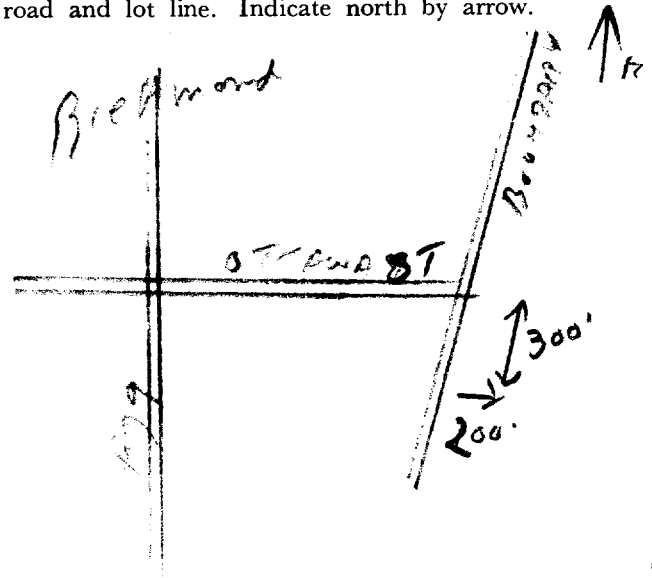
Address

Date APR 12 1965

*(Signature)*  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



UTM 182 435250<sup>P</sup>  
5R 5003905<sup>N</sup>  
 Elev. 4R 0310  
 Basin 25         



**RECEIVED**  
 DEC 21 1949  
 GEOLOGICAL BRANCH  
 DEPARTMENT OF MINES

9093  
 X

The Well Drillers Act  
 Department of Mines, Province of Ontario

# Water Well Record

Village of RICHMOND.

Con.  Lot.  Pt. Lot.   
 Richmond Acres 1/4  
 Date Completed July 20/48 Cost of well (not including pump) 160.00

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4"  
 Length(s) of casing(s) 25'  
 Length of screen no screen  
 Type of screen     
 Type of pump no pump  
 Capacity of pump     
 Depth of pump setting   

Date July 20/48  
 Developed Capacity 250 G.P.H.  
 Duration of Test 1 hr  
 Pumping Rate     
 Drawdown     
 Static level of completed well 20'  
 Is well a gravel-wall type? gravel

## Water Record

Kind (fresh or mineral) fresh  
 Quality (hard, soft, contains iron, sulphur etc.) hard  
 Appearance (clear, cloudy, coloured) clear  
 For what purpose(s) is the water to be used? house  
 How far is well from possible source of contamination? 200  
 What is source of contamination? creek  
 Enclose a copy of any mineral analysis that has been made of water   

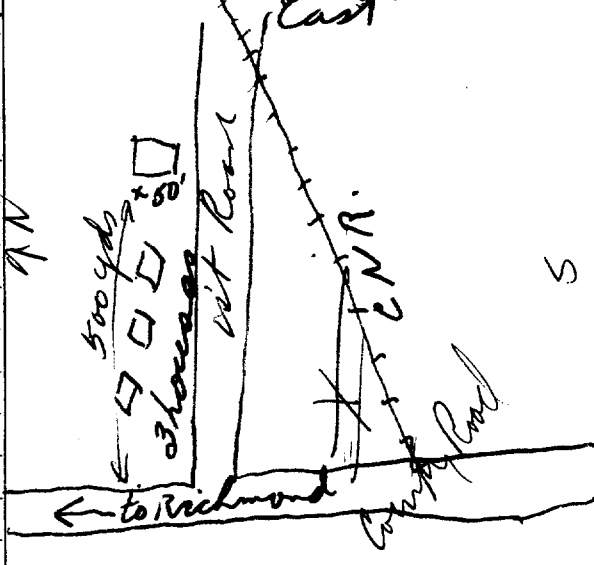
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>60'</u>	<u>  </u>	<u>40'</u>
<u>73</u>	<u>good</u>	<u>53'</u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>

## Well Log

Drift and Bedrock Record	From	To
	0 ft.	25 ft.
<u>gravel</u>	<u>0</u>	<u>25</u>
<u>limestone Rock</u>	<u>25</u>	<u>25</u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>

## Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? flat  
 Drilling Firm F.P. Sparks  
 Address Stittsville Ont  
 Recorded by F.P. Sparks Address Stittsville  
 Date Dec 8/49 Licence Number 133

UTM 182 434955

SR 5003805N

Elev. 42 0308

Basin 25

316/AF 7'



ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario



# Water Well Record

County or Territorial District County Carleton ~~By~~ Richmond Village, Town or City RICHMOND  
 Con Thistle Lot 1 Street and Number (if in Village, Town or City) Richmond, Ont.  
 Owner County Carleton High School Address Richmond, Ont.  
 Date Completed Mar 20 1951 Cost of Well (excluding pump) Well only \$ 775.00

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 6" Date.....  
 Length(s) of casing(s) 26' Static level 0'  
 Type of screen..... Pumping level 0'  
 Length of screen..... Pumping rate 5000 g.p.h.  
 Distance from top of screen to ground level..... Duration of test 3 hrs.  
 Is well a gravel-wall type? clay 26' Distance from cylinder or bowls to ground level.....

### Water Record

Kind (fresh or mineral) ..	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>fresh</u>	<u>ground level</u>	<u>fresh</u>	<u>140'</u>
Quality (hard, soft, contains iron, sulphur, etc.) <u>no</u>	<u>120</u>		<u>120'</u>
Appearance (clear, cloudy, coloured) <u>clear</u>			
For what purpose(s) is the water to be used? <u>Furnished School</u>			
How far is well from possible source of contamination? <u>700 yds</u>			
What is the source of contamination? <u>subty tank</u>			
Enclose a copy of any mineral analysis that has been made of water.....			

### Well Log

#### Overburden and Bedrock Record

From	To
0 ft.	26 ft.
26	140

### Location of Well

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

see over

Situation: Is well on upland, in valley, or on hillside? flat  
 Drilling Firm G.P. Sparks & Son  
 Address Stittville Ont.  
 Name of Driller Same Address Same  
 Date..... Licence Number 396

G.P. Sparks  
Signature of Licensee



UTM 11 B 2 4 3 5 2 2 5 7

5 R 5 0 0 3 8 1 1 0 N

Elev. 4 R 0 3 1 0

Basin 2 5



**RECEIVED**  
APR 17 1953  
GEOLOGICAL BRANCH  
DEPARTMENT OF MINES

15 No. 9111

The Well Drillers Act

Department of Mines, Province of Ontario

# Water Well Record

Locality, Village, Town or City Richmond

County (Town or City) Richmond

Date Completed 10 Aug 52 Cost of Well (excluding pump) 52  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4"  
Length(s) of casing(s) 25 ft.  
Type of screen \_\_\_\_\_  
Length of screen \_\_\_\_\_  
Distance from top of screen to ground level \_\_\_\_\_  
Is well a gravel-wall type? \_\_\_\_\_

Date \_\_\_\_\_  
Static level 10 ft.  
Pumping level 130 ft.  
Pumping rate 200 per hr.  
Duration of test 1 hour  
Distance from cylinder or bowls to ground level \_\_\_\_\_

## Water Record

Kind (fresh or mineral) fresh  
Quality (hard, soft, contains iron, sulphur, etc.) unknown  
Appearance (clear, cloudy, coloured) clear  
For what purpose(s) is the water to be used? household  
How far is well from possible source of contamination? 55 ft.  
What is the source of contamination? privy  
Enclose a copy of any mineral analysis that has been made of water \_\_\_\_\_

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>75</u>	<u>fresh</u>	<u>65</u>
<u>148</u>	<u>fresh</u>	

## Well Log

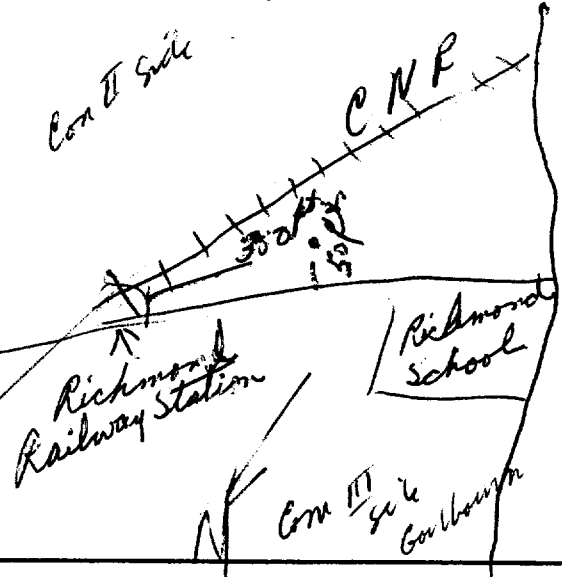
### Overburden and Bedrock Record

From To  
0 ft. ....ft.

till 0 21  
limestone 21 52

## Location of Well

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



Situation: Is well on upland, in valley or on hillside? upland  
Drilling Firm K. Sparks Address F.E. J. Hunter Valley, Durham  
Name of Driller K. Sparks Address \_\_\_\_\_  
Date Mar. 24/53 Licence Number 490  
K. Sparks  
Signature of Licensee

647

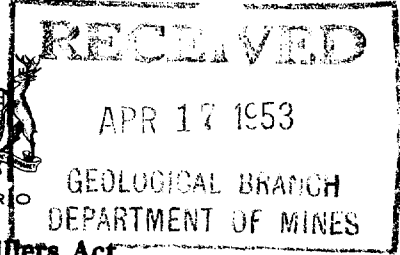
319/af. "A"

UTM 1182 435265P

5R 5003920N

Elev. 4R 0310

Basin 25



15 No. 9113

The Well Drifters Act

Department of Mines, Province of Ontario

# Water Well Record

Locality: Richmond  
Town or City: Richmond  
S: Richmond

Date Completed: 30 Aug 52  
(day) (month) (year)  
Cost of Well (excluding pump):

### Pipe and Casing Record

### Pumping Test

Casing diameter(s)..... 4	Date..... Aug 30
Length(s) of casing(s)..... 22 ft	Static level..... 89 ft
Type of screen.....	Pumping level..... 44 ft
Length of screen.....	Pumping rate..... 2.50 per hr.
Distance from top of screen to ground level.....	Duration of test..... 20 minutes
Is well a gravel-wall type?.....	Distance from cylinder or bowls to ground level.....

### Water Record

Kind (fresh or mineral)..... <i>fresh</i>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.)..... <i>unknown</i>			
Appearance (clear, cloudy, coloured)..... <i>clear</i>	70		60
For what purpose(s) is the water to be used?..... <i>household</i>	115		2
How far is well from possible source of contamination?..... <i>60 ft.</i>			
What is the source of contamination?..... <i>septic tank</i>			
Enclose a copy of any mineral analysis that has been made of water.....			

### Well Log

#### Overburden and Bedrock Record

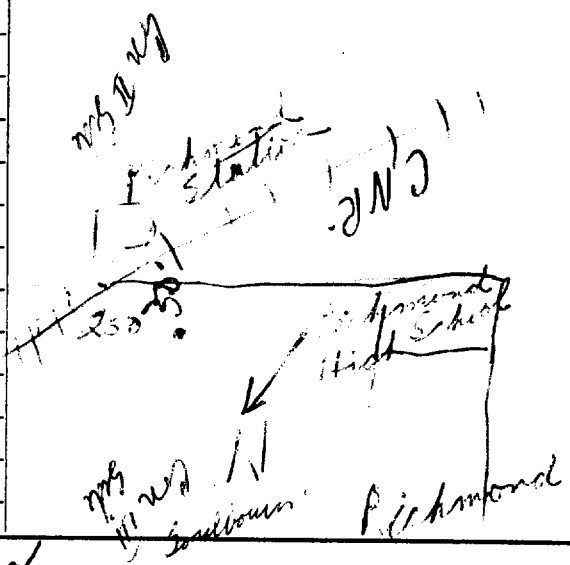
From To

0 ft. ....ft.

<i>Till</i>	<i>19</i>	<i>19</i>
<i>Limestone</i>	<i>19</i>	<i>20</i>

### Location of Well

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



Situation: Is well on upland, in valley, or on hillside?..... *upland*

Drilling Firm..... *F. Sparks* Address..... *E.E. Johnston Valley Parkway*

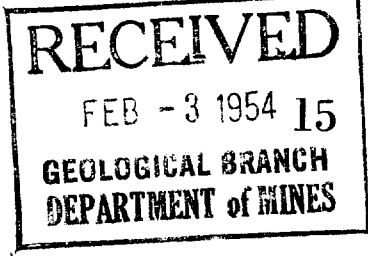
Name of Driller..... *F. Sparks* Address.....

Date..... *August 26 / 52* Licence Number..... *490*

Signature of Licensee..... *F. Sparks*



319/4F "A"



No. 9123

UTM 482 435025 F  
5R 5003710 N  
Elev. 4R 0308  
Basin 25



The Well Drillers Act  
Department of Mines, Province of Ontario

# Water Well Record

County or Territorial District Carleton Place Village, Town or City Richmond Ont.  
Date Completed Dec 3 1953 Cost of Well (excluding pump) .....

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4 inch Date Dec 3 1953  
Length(s) of casing(s) 50 feet Static level 8 feet  
Type of screen No. screen Pumping level 12  
Length of screen 11 Pumping rate 150 g.p.h.  
Distance from top of screen to ground level ..... Duration of test 20 minutes  
Is well a gravel-wall type? ..... Distance from cylinder or bowls to ground level .....

## Water Record

Kind (fresh or mineral) fresh  
Quality (hard, soft, contains iron, sulphur, etc.) soft  
Appearance (clear, cloudy, coloured) clear  
For what purpose(s) is the water to be used? private home  
How far is well from possible source of contamination? 50 feet  
What is the source of contamination? out door closet  
Enclose a copy of any mineral analysis that has been made of water .....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
45	fresh	37'

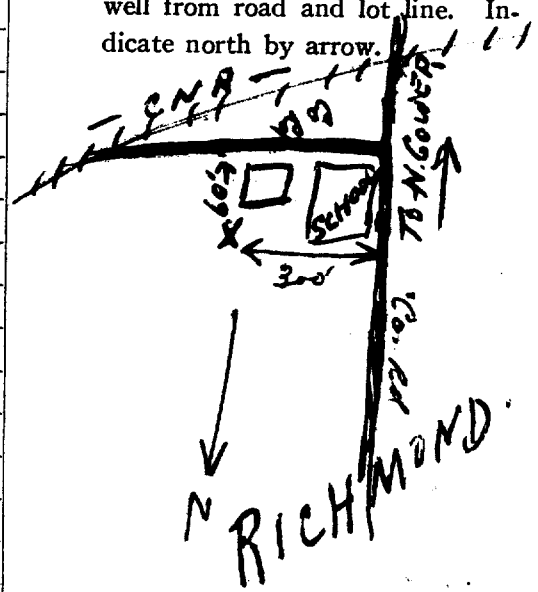
## Well Log

### Overburden and Bedrock Record

	From	To
<u>blue clay</u>	0 ft.	30 ft.
<u>grey limestone</u>	30	60

## Location of Well

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



Situation: Is well on upland, in valley, or on hillside? valley  
Drilling Firm J.P. Sparks  
Address Stittsville Ont.  
Name of Driller J. Clayton Sparks Address Stittsville Ont.  
Date Dec 3 1953 Licence Number 396  
Signature of Licensee J.P. Sparks

316/4f "A"

U.I.M. 1 8 2 4 3 5 2 6 1 0 F  
5 R 5 0 0 4 0 0 5 N  
Elev. 4 R 0 3 1 0  
Basin 2 5

15 No 9129



ONTARIO

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

RICHMOND

Owner T. I. M. L. T. O. R. Address Richmond Ont  
Date Completed 8th July 1954 Cost of Well (excluding pump)  
Village, Town or City...  
Town or City... Ottawa

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4 inch Date 8 July 1954  
Length(s) of casing(s) 17 feet Static level 3 feet  
Type of screen Pumping level 15 feet  
Length of screen Pumping rate 240 gal per hr  
Distance from top of screen to ground level 15 feet Duration of test 2 hrs  
Is well a gravel-wall type? Rock Distance from cylinder or bowls to ground level

Water Record

Table with 4 columns: Kind (fresh or mineral), Quality (hard, soft, contains iron, sulphur, etc.), Appearance (clear, cloudy, coloured), For what purpose(s) is the water to be used?, How far is well from possible source of contamination?, What is the source of contamination?, Enclose a copy of any mineral analysis that has been made of water...  
Depth(s) to Water Horizon(s) 185 feet  
Kind of Water fresh  
No. of Feet Water Rises 182 feet

Well Log

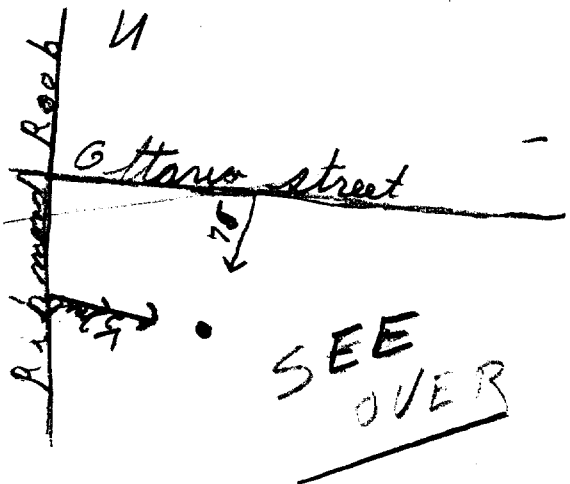
Overburden and Bedrock Record

From To

Table with 3 columns: Overburden and Bedrock Record, From, To  
0 ft. 7  
CLAY 0 7  
BOULDERS 7 12  
BLUISH LIMESTONE 12 190

Location of Well

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



Situation: Is well on upland, in valley, or on hillside? upland  
Drilling Firm J. B. D. Dubreane  
Address 1870 Carling Ottawa  
Name of Driller W. Ray  
Date 8 July 1954  
Address 232 St Joseph Blvd Hull  
Licence Number 394  
Signature of Licensee W. Ray

UTM | 18 | 2 | 435100 | F  
 | 9 | R | 5003780 | N  
 Elev. | 9 | R | 0310 |  
 Basin | 25 | | |

316/af "A"



**RECEIVED**  
 APR - 3 1956  
 GEOLOGICAL BRANCH  
 DEPARTMENT of MINES  
 Act, 1954

15 No ~~X~~ 9139 <sup>BN</sup>

The Water-well Drillers  
 Department of Mines

# Water-Well Record

County or Territorial District Outlet Township, Village, Town or City Richmond  
 Address Richmond  
 (day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>4"</u>	Static level <u>3"</u>
Length(s) <u>28'</u>	Pumping rate <u>200 GPM</u>
Type of screen	Pumping level <u>8'</u>
Length of screen	Duration of test <u>1 h</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)
<u>Clay</u>	<u>1'</u>	<u>26'</u>	<u>46'</u>	<u>46.</u>	<u>fresh</u>
<u>limestone</u>	<u>26</u>	<u>31'</u>			

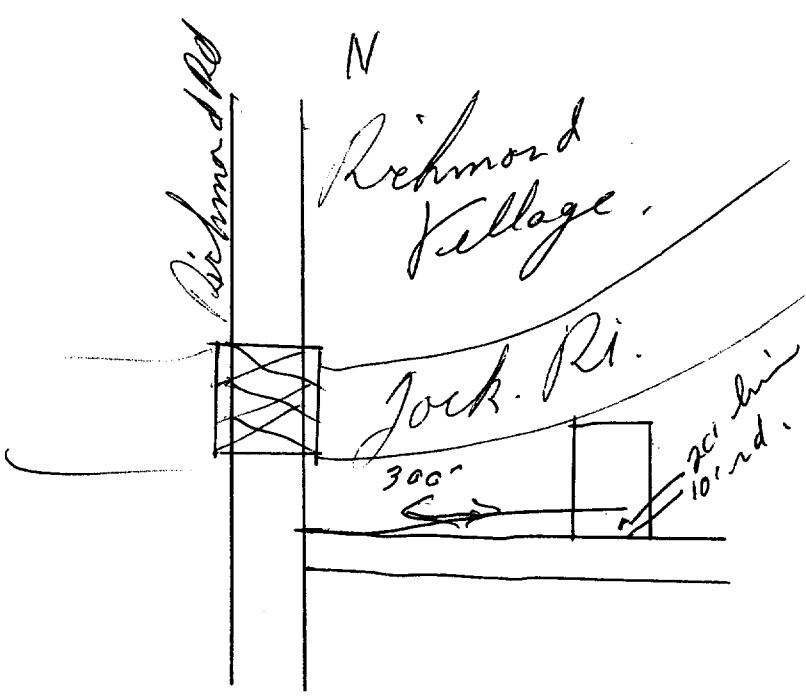
For what purpose(s) is the water to be used? home  
 Is water clear or cloudy? clear  
 Is well on upland, in valley, or on hillside? valley  
 Drilling firm M. M. Meagh  
 Address 639 Rowalwood Ave. Ottawa  
 Name of Driller M. M. Meagh  
 Licence Number 171

I certify that the foregoing statements of fact are true.

Date Mar 28 1956 M. M. Meagh  
 Signature of Licensee

## Location of Well

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



314/4f "A"

UTM 1182 434820 F

5R 51004040N

Elev. 4R 0305

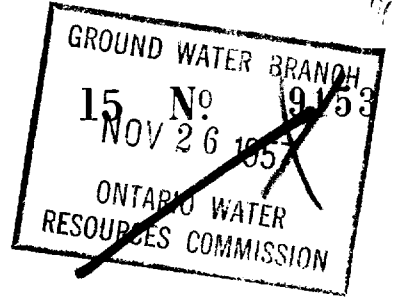
Basin 25



ONTARIO

The Water-well Drillers Act, 1954

Department of Mines



# Water-Well Record

RICHMOND

County or Territorial District Carleton Township, Village, Town or City Yardbown  
 Con. 5 Lot 24 Street and Number (if in Village, Town or City) Richmond  
 Owner Edgar Rene Bledus Ltd Address Richmond  
 Date completed Aug 12 57  
 (day) (month) (year)

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 4"  
 Length(s) 28'  
 Type of screen NONE  
 Length of screen

Static level 11'  
 Pumping rate 250 G.P.M.  
 Pumping level 17'  
 Duration of test 1 hr

### 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)
<u>Clay</u>	<u>1'</u>	<u>27'</u>			
<u>Limestone</u>	<u>27'</u>	<u>30'</u>	<u>30'</u>	<u>39'</u>	<u>fresh</u>

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

Is water clear or cloudy? clear

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

Drilling firm M. McEachern

Address 639 Richmond Rd Ottawa

Name of Driller M. McEachern

Address

Licence Number 191

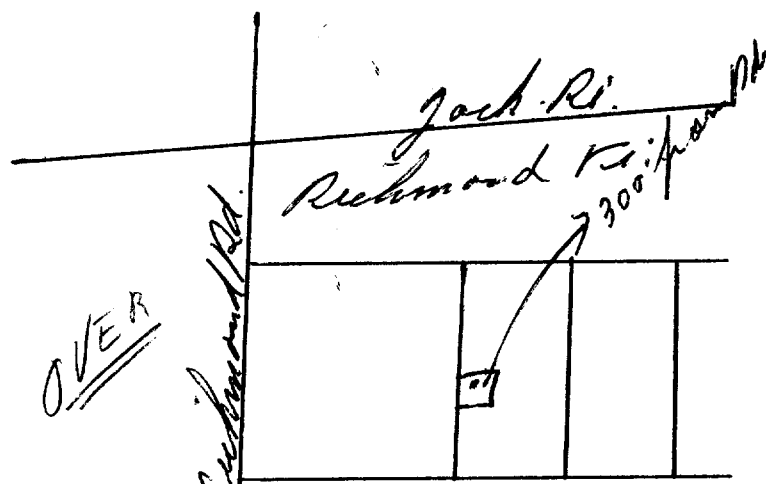
I certify that the foregoing statements of fact are true.

Date Aug 12 M. McEachern

Signature of Licensee

### Location of Well

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



Con 3  
 Lot 24  
 Well No 4.

316/AF 71

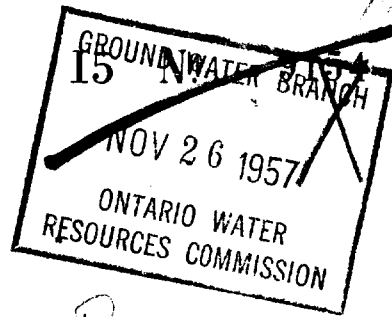
UTM 182 434840 F  
5R 5004015 N



ONTARIO

Elev. 4R 0305  
Basin 25

The Water-well Drillers Act, 1954  
Department of Mines



# Water-Well Record

County or Territorial District... Queleton ..... Township, Village, Town or City... Youtbourn  
Con... 3 ..... Lot... 29 ..... Street and Number (if in Village, Town or City)... Richmond  
Owner... Cedar Home Builders Ltd. ..... Address... Richmond  
Date completed... Aug 17 ..... 57  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) ..... 4" .....  
Length(s) ..... 28' .....  
Type of screen ..... NONE .....  
Length of screen .....  
Static level ..... 11' .....  
Pumping rate ..... 230 G.P.M. .....  
Pumping level ..... 12' .....  
Duration of test ..... 1 hr. .....

## 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)
<u>Clay</u>	<u>1'</u>	<u>27'</u>			
<u>Limestone</u>	<u>27'</u>	<u>51'</u>	<u>51'</u>	<u>40"</u>	<u>Fresh</u>

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

Is water clear or cloudy? clear

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

Drilling firm M. M. Meagher

Address 639 Hawah wood Ave

Ottawa

Name of Driller M. M. Meagher

Address .....

Licence Number 171

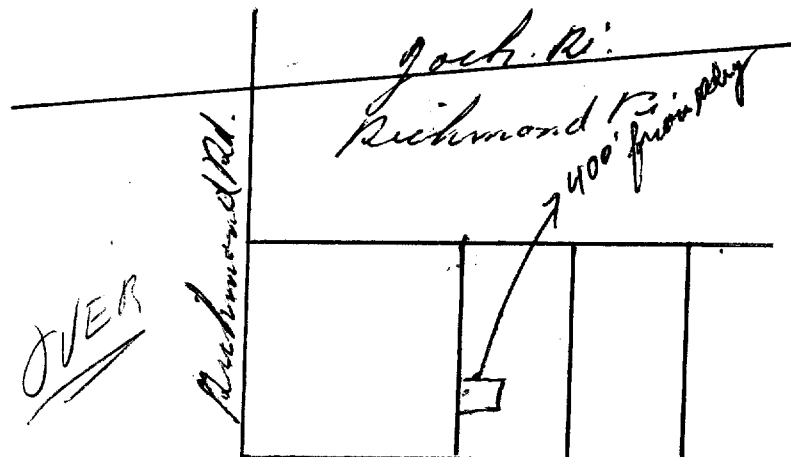
I certify that the foregoing statements of fact are true.

Date Aug 17 M. M. Meagher

Signature of Licensee

## Location of Well

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



Lot 3  
Lot 24  
well No 5



UTM ~~18~~ 2 4 3 4 8 6 0 P

5 R 5 0 0 4 0 0 0 N

Elev. 4 R 0 3 0 3

Basin 2 5

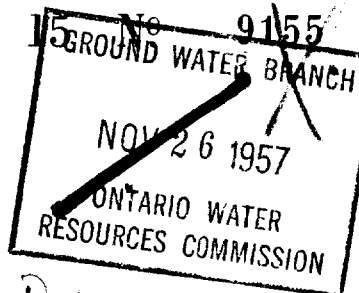
316/AF 7"



ONTARIO

The Water-well Drillers Act, 1954

Department of Mines



# Water-Well Record

County or Territorial District Parleton Township, Village, Town or City Richmond  
 Con. 2 Lot 24 Street and Number (if in Village, Town or City) Richmond  
 Owner Edgar Home Bldg. Ltd. Address Richmond  
 Date completed Aug 26 57  
 (day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter (s) 4"  
 Length (s) 28'  
 Type of screen NONE  
 Length of screen

Static level 10'  
 Pumping rate 260 G.P.D.  
 Pumping level 11'  
 Duration of test 1 hr.

## 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)
<u>Clay</u>	<u>1'</u>	<u>28'</u>			
<u>Limestone</u>	<u>28'</u>	<u>30'</u>	<u>30'</u>	<u>40'</u>	<u>fresh</u>

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

Is water clear or cloudy? clear

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

Drilling firm M. Meagher

Address 639 Howarth Wood Ave.

Ottawa

Name of Driller M. Meagher

Address

Licence Number 171

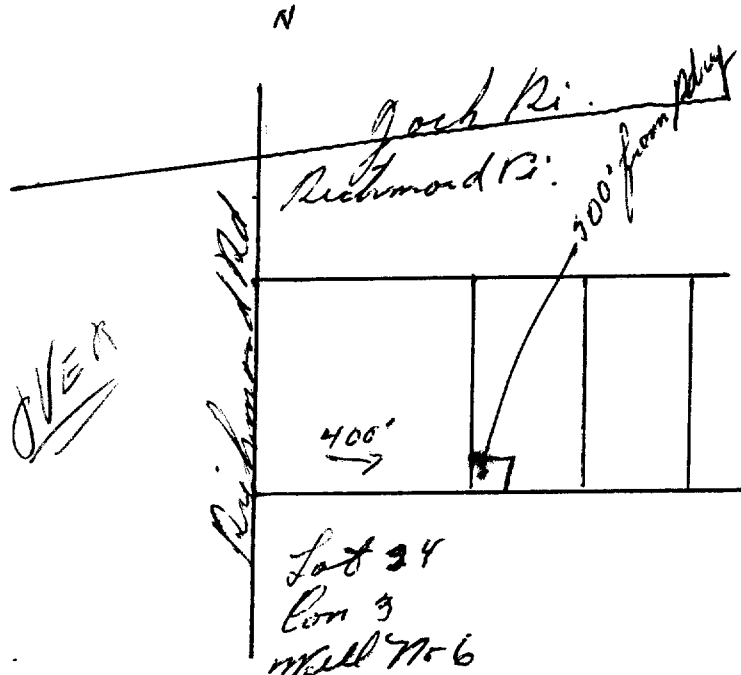
I certify that the foregoing statements of fact are true.

Date Aug 26 M. Meagher

Signature of Licensee

## Location of Well

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



Lot 24  
Con 3  
Well 77-6

UTM 18 2 4 3 4 9 2 0

5 R 5 0 0 4 0 5 N

Elev. 4 R 0 3 0 8

Basin 2 5

318/af. A



The Water-well Drillers Act, 1954  
Department of Mines

GROUND WATER  
No. 160 BRA  
NOV 26 1957  
ONTARIO WATER  
RESOURCES COMMISSION

# Water-Well Record

DICKINSON

County or Territorial District Caletton Township, Village, Town or City Richmond  
Con. 3 Lot 24 Street and Number (if in Village, Town or City) Richmond  
Owner Edgar Home Plbrs. Ltd. Address Richmond  
Date completed Sept 14 57  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) 4"  
Length(s) 28'  
Type of screen NONE  
Length of screen

Static level 12'  
Pumping rate 240 G.P.M.  
Pumping level 12'  
Duration of test 1 hr.

## Well Log

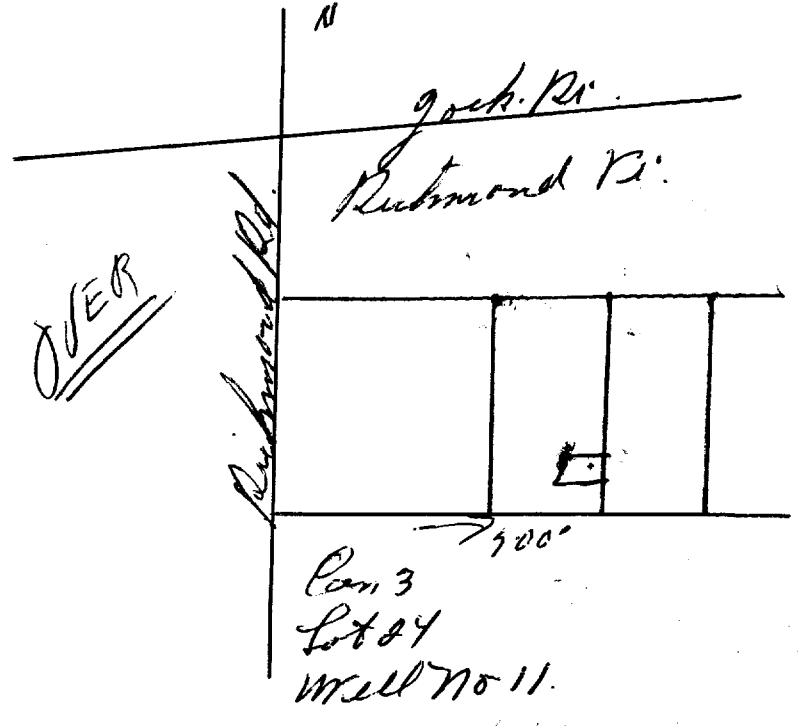
## Water Record

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)
<u>Clay</u>	<u>1</u>	<u>28'</u>			
<u>Limestone</u>	<u>28'</u>	<u>32'</u>	<u>32'</u>	<u>40'</u>	<u>fresh</u>

For what purpose(s) is the water to be used? home  
Is water clear or cloudy? clear  
Is well on upland, in valley, or on hillside? valley  
Drilling firm M. Meagher  
Address 639 Hawthornwood Ave. Ottawa  
Name of Driller M. Meagher  
Address  
Licence Number 171  
I certify that the foregoing statements of fact are true.  
Date Sept 14 M. Meagher  
Signature of Licensee

## Location of Well

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



500'  
Can 3  
Lot 24  
Well No 11.

UTM 18 2 4 3 4 9 3 5 F

5 R 5 0 0 4 0 3 0 N

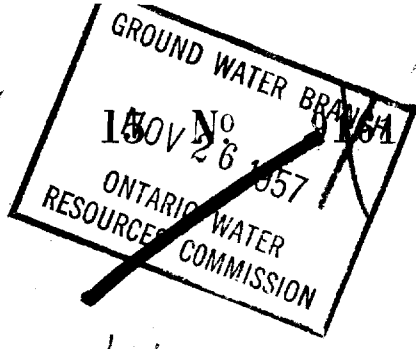
Elev. 4 R 0 3 0 8

Basin 2 5



ONTARIO

316/48 "A"



The Water-well Drillers Act, 1954  
Department of Mines

# Water-Well Record

RIGHT ONE

County or Territorial District Caletton Township, Village, Town or City Yonge Town  
 Con. 3 Lot 24 Street and Number (if in Village, Town or City) Richmond  
 Owner Edgar Home Alder Ltd. Address Richmond  
 Date completed Sept 15 57  
 (day) (month) (year)

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 4"  
 Length(s) 28'  
 Type of screen NONE  
 Length of screen

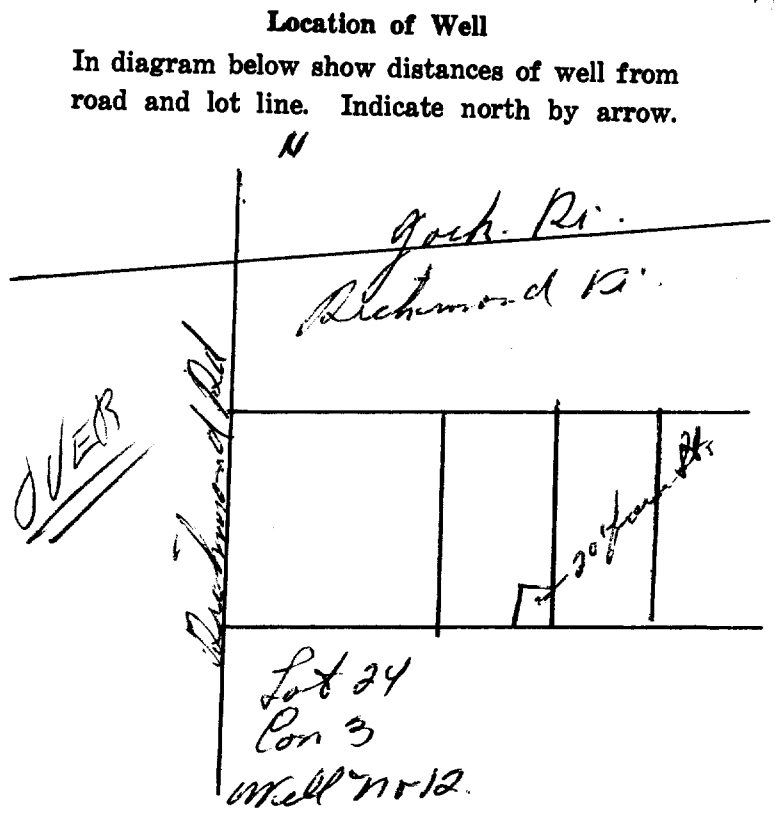
Static level 11'  
 Pumping rate 250 G.P.H.  
 Pumping level 12'  
 Duration of test 1 hr.

### 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)
<u>Clay</u>	<u>1'</u>	<u>28'</u>			
<u>Limestone</u>	<u>28'</u>	<u>51'</u>	<u>51'</u>	<u>40'</u>	<u>fresh</u>

For what purpose(s) is the water to be used? home  
 Is water clear or cloudy? clear  
 Is well on upland, in valley, or on hillside? valley  
 Drilling firm M. Meagher  
 Address 39 Hawshawood Ave. Ottawa  
 Name of Driller M. Meagher  
 Address  
 Licence Number 171  
 I certify that the foregoing statements of fact are true.  
 Date Sept 15 M. Meagher  
 Signature of Licensee



310/af. 71

UTM ~~V~~ 82 434965 F

5R 5004105 N

Elev. 4R 0308

Basin 25



ONTARIO

The Water-well Drillers Act, 1954  
Department of Mines



# Water-Well Record

RICHMOND

County or Territorial District Peleton Township, Village, Town or City Southdown  
Con. 7 Lot 24 Street and Number (if in Village, Town or City) Peleton Rd.  
Owner Edna Mary Bldg. Ltd Address Richmond  
Date completed Sept 16 57  
(day) (month) (year)

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 4"  
Length(s) 28'  
Type of screen NONE  
Length of screen

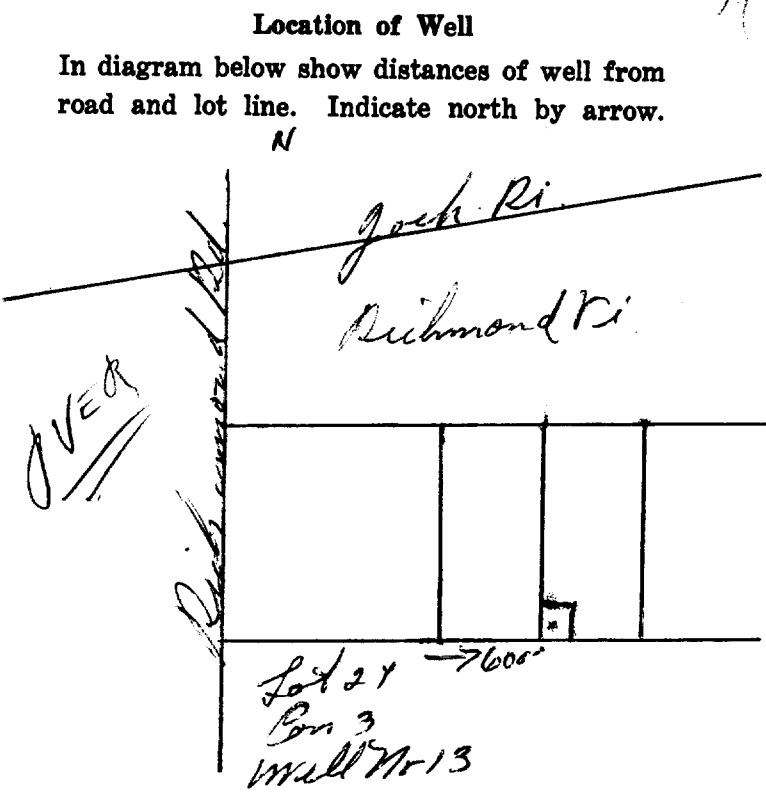
Static level 12'  
Pumping rate 250 G.P.H.  
Pumping level 13'  
Duration of test 1 hr.

### 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)
<u>Clay</u>	<u>1</u>	<u>28'</u>			
<u>Limestone</u>	<u>28</u>	<u>52'</u>	<u>53'</u>	<u>40'</u>	<u>fresh</u>

For what purpose(s) is the water to be used?  
home  
Is water clear or cloudy? clear  
Is well on upland, in valley, or on hillside? valley  
Drilling firm M. McLaughlin  
Address 139 Woodwood Ave  
Name of Driller M. McLaughlin  
Address  
Licence Number 171  
I certify that the foregoing statements of fact are true.  
Date Sept 16 1957  
Signature of Licensee



31G/Af. "A"

UTM 18 2 435050 P

SR 5004185 N

Elev. 4R 0308

Basin 25



ONTARIO

GROUND WATER BRANCH  
15 NOV 26 1997 63  
ONTARIO WATER RESOURCES COMMISSION

The Water-well Drillers Act, 1954  
Department of Mines

# Water-Well Record

County or Territorial District Quleton Township, Village, Town or City Yapfdown  
Con. 30 Lot 24 Street and Number (if in Village, Town or City) Richmond  
Owner Elder Henry Bldg Ltd Address Richmond  
Date completed Sept 18 57  
(day) (month) (year)

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 4"  
Length(s) 28'  
Type of screen NONE  
Length of screen

Static level 12'  
Pumping rate 240 G.P.M.  
Pumping level 12'  
Duration of test 1 hr.

### 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)
<u>Clay</u>	<u>1'</u>	<u>20'</u>			
<u>Sandstone</u>	<u>28'</u>	<u>58'</u>	<u>58'</u>	<u>40'</u>	<u>fresh</u>

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

Is water clear or cloudy? clear

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

Drilling firm M. Magher

Address 639 Richmondwood Ave. Victoria

Name of Driller M. Magher

Address

Licence Number 171

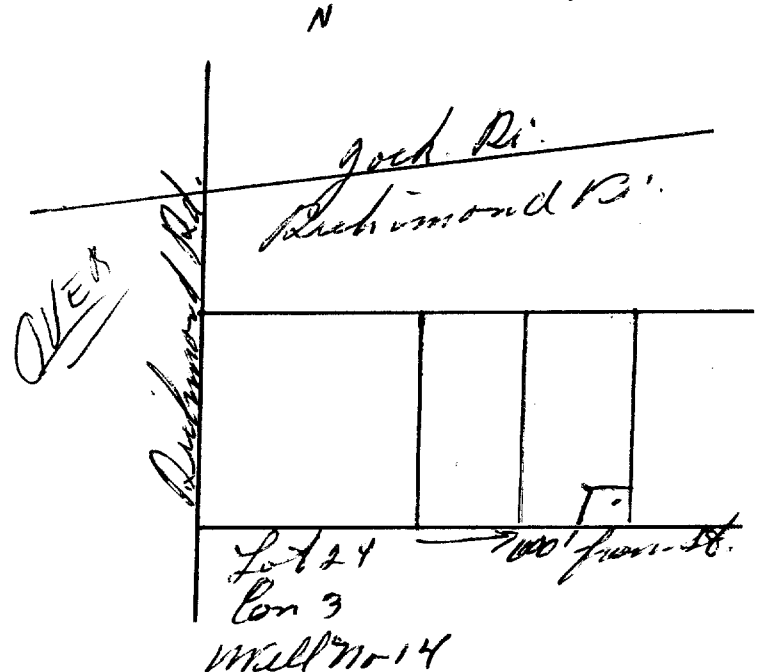
I certify that the foregoing statements of fact are true.

Date Sept 18 1957 M. Magher

Signature of Licensee

### Location of Well

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



310/af. "A"

WAM

182 435145P  
5R 5003800N  
Elev. 4R 0308  
Basin 25



The Water-well Drillers Act, 1954  
Department of Mines

15 No 9160  
GROUND WATER BOARD  
MAY 20 1958  
ONTARIO WATER RESOURCES COMMISSION

# Water-Well Record

County or Territorial District... CARleton Township, Village, Town or City... Richmond Hill  
In Village, Town or City... Richmond Hill  
Address... Richmond Hill  
(day) (month) (year)

## Pipe and Casing Record

## Pumping Test

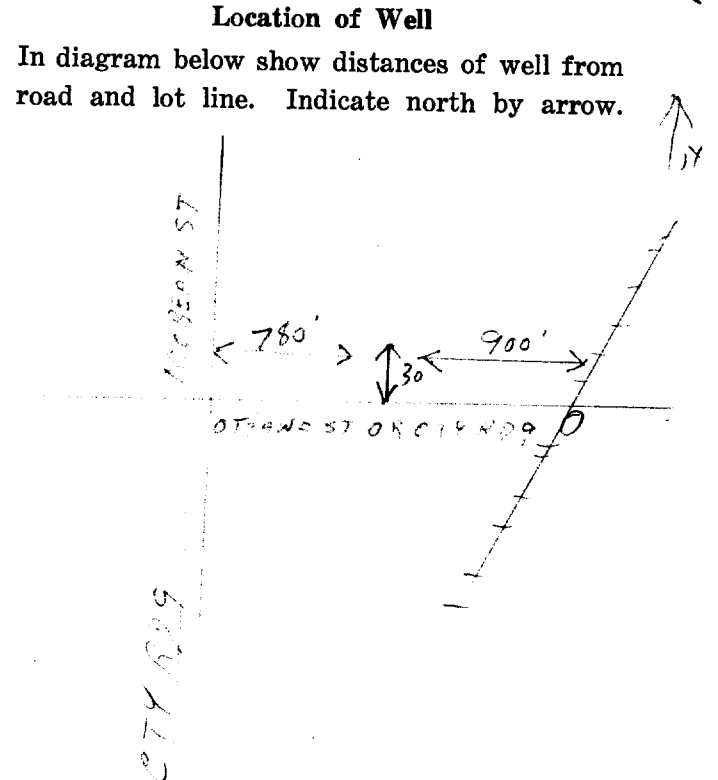
Casing diameter(s) ..... 4"  
Length(s) ..... 30'  
Type of screen ..... None  
Length of screen .....  
Static level ..... Top 0"  
Pumping rate ..... 2.0 GPM  
Pumping level ..... 2'  
Duration of test ..... 1 hr

## 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)
<u>CLAY &amp; SANDS</u>	<u>0</u>	<u>25</u>			
<u>GRAVEL</u>	<u>25</u>	<u>30</u>			
<u>SAND &amp; GRAVEL</u>	<u>30</u>	<u>47</u>	<u>35-45</u>	<u>1-2</u>	<u>FRESH</u>

For what purpose(s) is the water to be used?  
HOUSE  
Is water clear or cloudy?..... Clear  
Is well on upland, in valley, or on hillside?.....  
Drilling firm ..... SEYMOUR DRILLING  
Address ..... 1000 SHEPPARD AVE E  
Name of Driller .....  
Address .....  
Licence Number.....  
I certify that the foregoing statements of fact are true.  
Date..... 12/58 [Signature]  
Signature of Licensee



UTM | 1 | 8 | 2 | 4 | 3 | 4 | 9 | 5 | 5 |  
 | 5 | R | | 5 | 0 | 0 | 4 | 1 | 2 | 0 | N |  
 Elev. | 4 | R | | 0 | 3 | 0 | 8 |  
 Basin | 2 | 5 | | | |

316/4f. 'A'



GROUND WATER BRANCH No. 9179  
 OCT 28 1958  
 ONTARIO WATER RESOURCES COMMISSION

The Water-well Drillers Act, 1954  
 Department of Mines

# Water-Well Record

County or Territorial District Carleton Township, Village, Town or City Richmond  
 Con. III Lot 25 Street and Number (if in Village, Town or City) Richmond Ont.  
 Owner Coady Construction Address 212 Ellendale Crescent  
 Date completed Sept. 17, 1958  
 (day) (month) (year)

## Pipe and Casing Record

## Pumping Test

Casing diameter(s) <u>5"</u>	Static level <u>14 ft.</u>
Length(s) <u>21 ft.</u>	Pumping rate <u>300 gph</u>
Type of screen <u>none</u>	Pumping level <u>21 ft.</u>
Length of screen	Duration of test <u>1 hr</u>

## Well Log

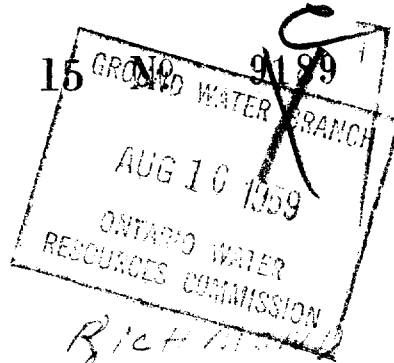
## Water Record

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)
Clay	0	16			
limestone	16	271	71	57	fresh

For what purpose(s) is the water to be used?  
house  
 Is water clear or cloudy? clear  
 Is well on upland, in valley, or on hillside? upland  
 Drilling firm F.A. McLean & Son  
 Address .....  
 Name of Driller W. Kavanagh  
 Address .....  
 Licence Number.....  
 I certify that the foregoing statements of fact are true.  
 Date Sept. 30 [Signature]  
 Signature of Licensee

Location of Well  
 In diagram below show distances of well from road and lot line. Indicate north by arrow.  
 [Diagram area with handwritten notes and a north arrow pointing up]

T.M. 11BZ 43489E  
 5R 5003945N  
 Elev. 4R 0308  
 Basin 25



The Ontario Water Resources Commission Act, 1957

# WATER WELL RECORD

County or District CHESTER Township, Village, Town or City Delaware  
 completed 3 - 7 - 59  
(day month year)  
 Address ALUMPKAY ST.

### Casing and Screen Record

### Pumping Test

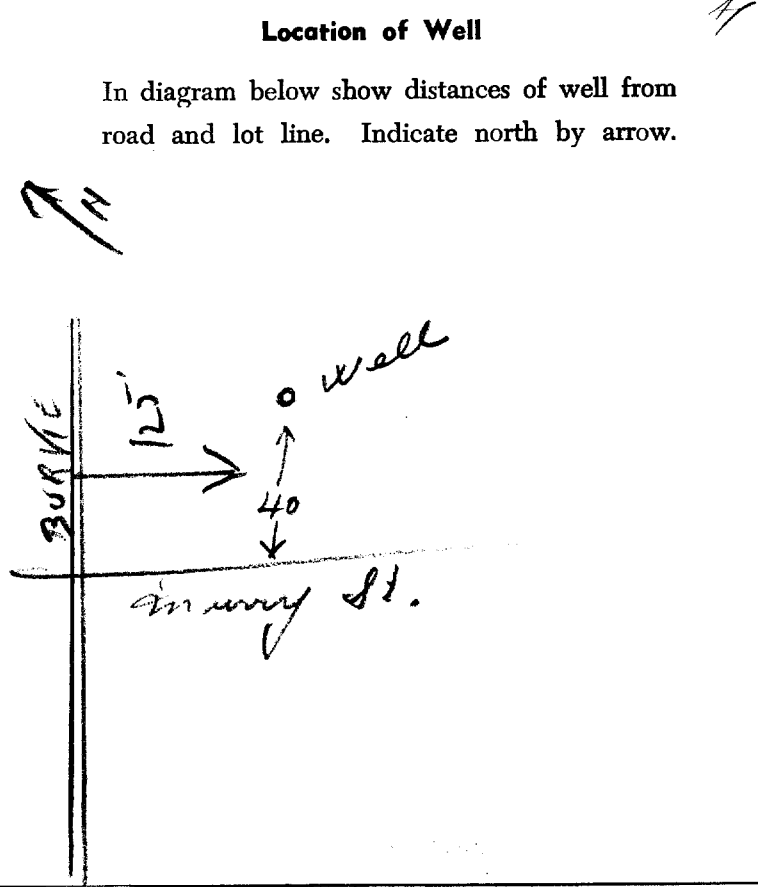
Inside diameter of casing.....	<u>2 inches</u>	Static level.....	<u>5 feet</u>
Total length of casing.....	<u>26 feet</u>	Test-pumping rate.....	<u>1/10</u> G.P.M.
Type of screen.....	<u>none</u>	Pumping level.....	<u>10 feet</u>
Length of screen.....	<u>none</u>	Duration of test pumping.....	<u>1/2 hr.</u>
Depth to top of screen.....	<u>none</u>	Water clear or cloudy at end of test.....	<u>clear</u>
Diameter of finished hole.....	<u>2 inches</u>	Recommended pumping rate.....	<u>20</u> G.P.M.
		with pumping level of.....	<u>18 feet</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, sulphur)
<u>CLAY</u>	<u>0</u>	<u>25</u>			
<u>Grey lime rock</u>	<u>25</u>	<u>44</u>	<u>44</u>	<u>39</u>	<u>fresh</u>

For what purpose(s) is the water to be used?  
HOUSE  
 Is well on upland, in valley, or on hillside?  
upland  
 Drilling Firm Geacel Rosette  
 Address 120 S. Main St. EASTVIEW ONT.  
 Licence Number 257  
 Name of Driller same  
 Address same  
 Date 20/6/57  
M. Rosette  
(Signature of Licensed Drilling Contractor)





3164f. A'

UTM 18Z 435535F  
5R 5004100N



15 No. 9235  
GROUND WATER BRANCH  
SEP 7 1960  
RESOURCES COMMISSION

Elev. 4R 0300  
Basin 25

The Ontario Water Resources Commission Act, 1957

# WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond  
Date completed 5 Aug 60  
(day month year)  
Address Richmond

### Casing and Screen Record

### Pumping Test

Inside diameter of casing 4"  
Total length of casing 26'  
Type of screen \_\_\_\_\_  
Length of screen \_\_\_\_\_  
Depth to top of screen \_\_\_\_\_  
Diameter of finished hole 4"

Static level 5'  
Test-pumping rate 6 G.P.M.  
Pumping level 6 ft  
Duration of test pumping 1/2 hr.  
Water clear or cloudy at end of test clear  
Recommended pumping rate 5 G.P.M.  
with pumping level of Set pump at 30ft.

### Well Log

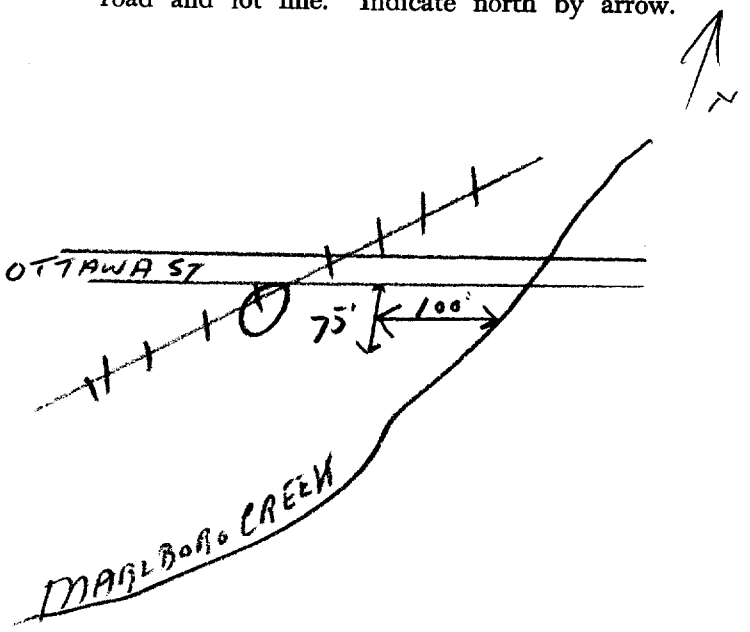
### Water Record

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, sulphur)
<u>clay</u>	<u>0</u>	<u>13</u>			
<u>broken limestone</u>	<u>13</u>	<u>20</u>			
<u>limestone</u>	<u>20</u>	<u>59</u>	<u>55</u>	<u>50</u>	<u>fresh</u>

For what purpose(s) is the water to be used?  
house  
Is well on upland, in valley, or on hillside?  
upland  
Drilling Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Licence Number 483  
Name of Driller Ben Edwards  
Address \_\_\_\_\_  
Date Aug 23/60  
Ben Edwards  
(Signature of Licensed Drilling Contractor)

### Location of Well

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



316/4f. 79"



GROUND WATER BRANCH  
JUN 15 1962  
9257  
ONTARIO WATER RESOURCES COMMISSION

UTM 18Z 4353115P

5R 5003980N

The Ontario Water Resources Commission Act

Elev. 4R 0309

# WATER WELL RECORD

Basin 25  
County or District

Township, Village, Town or City

Con. South half of Part of Lot 20

Date completed 29 Mar 62  
(day month year)

Address Richmond Ont

### Casing and Screen Record

Inside diameter of casing 5"  
Total length of casing 28.5'  
Type of screen  
Length of screen  
Depth to top of screen  
Diameter of finished hole 4 15/16"

### Pumping Test

Static level 8'  
Test-pumping rate 10 G.P.M.  
Pumping level 17'  
Duration of test pumping 1/2 hr  
Water clear or cloudy at end of test CLEAR  
Recommended pumping rate 10 G.P.M.  
with pump setting of 50' feet below ground surface

### Well Log

### Water Record

#### Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

sandy clay with boulders  
blue limestone

0

23'

60'

fresh

23

80

76'

"

76'

"

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

household

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

upland

Drilling or Boring Firm

Capital Water

Address

1243 Nelson Rd  
Ottawa Ont

Licence Number

482

Name of Driller or Borer

A Kavanagh

Address

Stittsville Ont

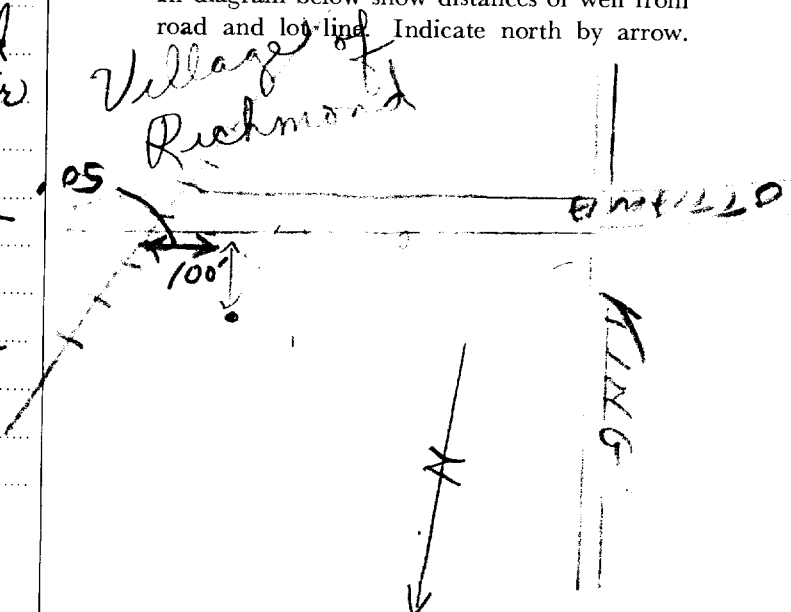
Date

Mar 29 1962

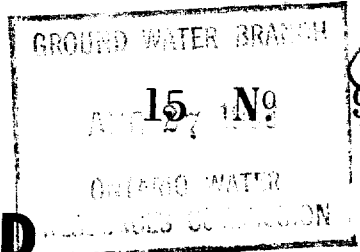
Walter Kavanagh  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



31G/4f. "A"



UTM 1182 4349151F

5R 50041175N

The Ontario Water Resources Commission Act

Elev. 4R 0305

# WATER WELL RECORD

Basin 25  
County or District Carl

Township, Village, Town or City Richmond

Con. 111 Lot           

Date completed 14 June 63  
(day month year)

Address Richmond Ont

### Casing and Screen Record

Inside diameter of casing 5"  
 Total length of casing 19'  
 Type of screen             
 Length of screen             
 Depth to top of screen             
 Diameter of finished hole 5"

### Pumping Test

Static level 5'  
 Test-pumping rate 10 G.P.M.  
 Pumping level 7  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test cloudy  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 50 feet below ground surface

### Well Log

### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0</u>	<u>16</u>	<u>40</u>	<u>fresh</u>
<u>blue limestone</u>	<u>16</u>	<u>64</u>	<u>62</u>	<u>"</u>

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

New household

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

Drilling or Boring Firm Capital Water Supply

Address 1243 Heron Rd  
Ottawa

Licence Number 976

Name of Driller or Borer M Kavanagh

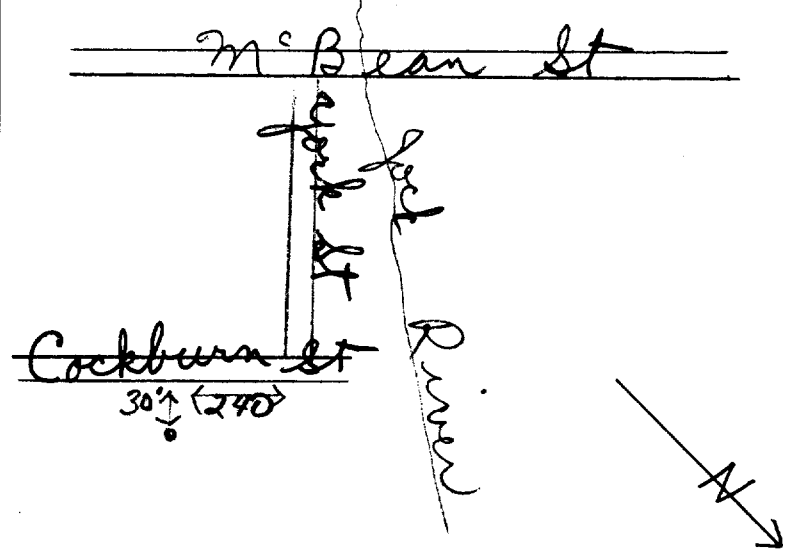
Address           

Date 14 June 63

Walter Kavanagh  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



314/47 7A



WATER RESOURCES DIVISION No. 9291 JAN 19 1965 ONTARIO WATER RESOURCES COMMISSION

UTM 18Z 435090E

5R 5004130N The Ontario Water Resources Commission Act

Elev. 4R 0309

# WATER WELL RECORD

Basin 25 Carl Township, Village, Town or City Richmond

County or District Date completed 16 Nov. 1964 (day month year)

Con Lot Address Metcalfe Ontario

### Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 23'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

### Pumping Test

Static level 18

Test-pumping rate 5 G.P.M.

Pumping level 30

Duration of test pumping 1hr.

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 50 feet below ground surface

### Well Log

#### Overburden and Bedrock Record

clay	0	12
limestone	12	68

### Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	12	66	fresh
12	68		

For what purpose(s) is the water to be used? new house

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

Drilling or Boring Firm CAPITAL WATER SUPPLY

Address 1245 Heron Rd.,

Ottawa 735-0600

Licence Number 1223

Name of Driller or Borer M Kavanagh

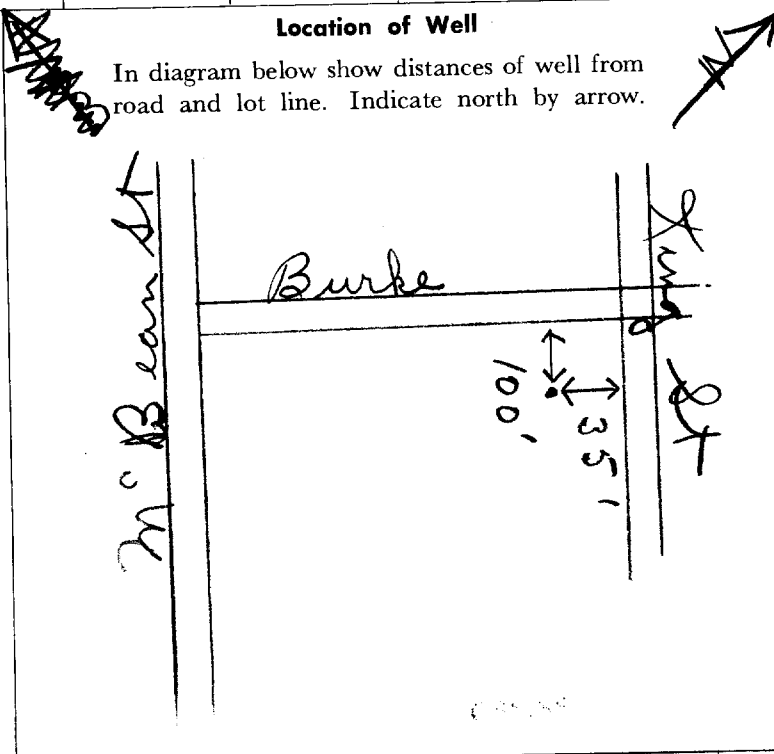
Address

Date Nov 17 1964

Walter Kavanagh (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



314/47 7A



WATER RESOURCES DIVISION No. 9291 JAN 19 1965 ONTARIO WATER RESOURCES COMMISSION

UTM 18Z 435090E

5R 5004130N The Ontario Water Resources Commission Act

Elev. 4R 0309

# WATER WELL RECORD

Basin 25 Carl Township, Village, Town or City Richmond

County or District Date completed 16 Nov. 1964 (day month year)

Con Lot Address Metcalfe Ontario

### Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 23'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

### Pumping Test

Static level 18

Test-pumping rate 5 G.P.M.

Pumping level 30

Duration of test pumping 1hr.

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 50 feet below ground surface

### Well Log

#### Overburden and Bedrock Record

clay	0	12
limestone	12	68

### Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	12	66	fresh
12	68		

For what purpose(s) is the water to be used? new house

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

Drilling or Boring Firm CAPITAL WATER SUPPLY

Address 1245 Heron Rd.,

Ottawa 735-0600

Licence Number 1223

Name of Driller or Borer M Kavanagh

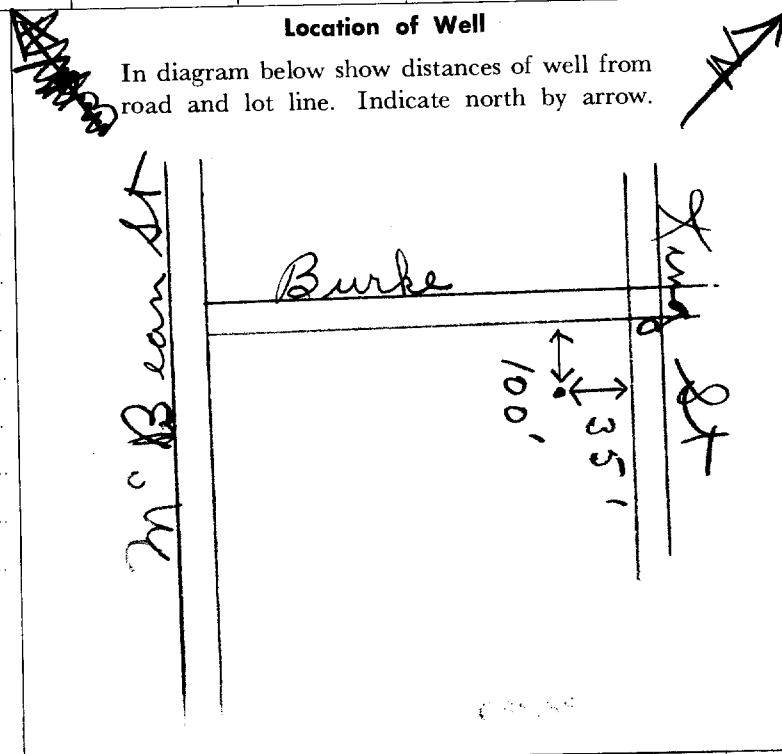
Address

Date Nov 17 1964

Walter Kavanagh (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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





316/47 "A"



WATER RESOURCES DIVISION  
 15 No 9311  
 SEP 19 1967  
 ONTARIO WATER RESOURCES COMMISSION

UTM 18Z 434910P

5R 5004185N

The Ontario Water Resources Commission Act

Elev. 4R 0305

# WATER WELL RECORD

Basin 25 Carleton

Township, Village, Town or City Richmond

Con. Lot

Date completed 21 June 1967 (day month year)

Richmond Ont.

### Casing and Screen Record

Inside diameter of casing 5"  
 Total length of casing 22'  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 5"

### Pumping Test

Static level 5'  
 Test-pumping rate 10 G.P.M.  
 Pumping level 15'  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test cloudy  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 30 feet below ground surface

### Well Log

### Water Record

#### Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0'	14'	53	fresh
Boulders & gravel	14	18		
limestone	18	55'		

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

new house

Is well on upland in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Dr Ottawa 6

Licence Number 2381

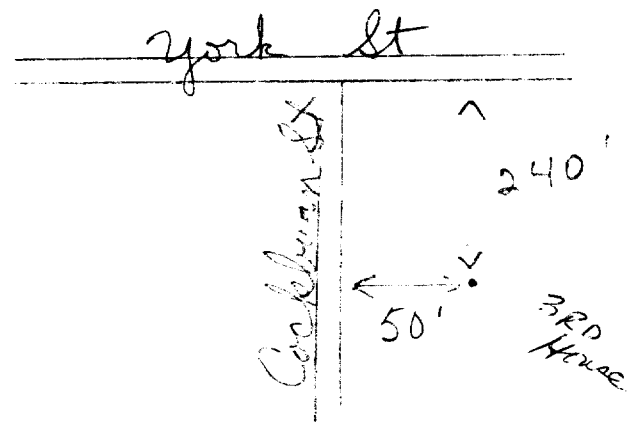
Name of Driller or Borer M Kavanagh

Date June 21 1967

Shatter Kavanagh (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



31G/af. "A"



WATER RESOURCES  
DIVISION

15 No. 9315

SEP 13 1967

ONTARIO WATER  
RESOURCES COMMISSION

UTM 18Z 435650

5R 5004130

The Ontario Water Resources Commission Act

Elev. 4R 03110

# WATER WELL RECORD

Basin 25 | Carleton

Township, Village, Town or City Richmond

Date completed 25 Aug 1967

Con. Lot

Address Richmond Ont

### Casing and Screen Record

Inside diameter of casing 5"

Total length of casing 26'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

### Pumping Test

Static level 10'

Test-pumping rate 1.0 G.P.M.

Pumping level 12'

Duration of test pumping 1 hr

Water clear or cloudy at end of test cloudy

Recommended pumping rate 5 G.P.M.

with pump setting of 35 feet below ground surface

### Well Log

### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay	0'	15'	58'	fresh
gravel	15'	22'		
limestone	21	60		

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

new house

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

upland

Drilling or Boring Firm

Capital Water Supply Ltd

Address

14 Ashford Dr  
Ottawa 6

Licence Number

2381

Name of Driller or Borer

M Kavanagh

Address

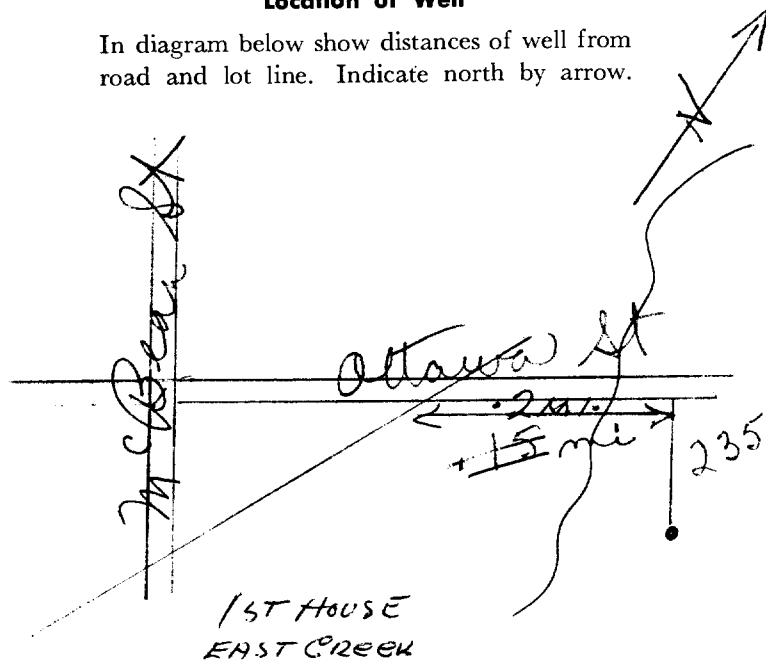
Date Aug 25 1967

Malter Kavanagh

(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



Form 7 15M-60-4138

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18-435110  
4-50041101

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1509776

WATER RESOURCES DIVISION  
NOV 14 1968  
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District Carleton Township, Village, Town or City Rushford  
Con. 711 Lot 23 Date completed 15 Oct 1968  
Address Almonte Ont.

### Casing and Screen Record

Inside diameter of casing 5"  
Total length of casing 29'  
Type of screen  
Length of screen  
Depth to top of screen  
Diameter of finished hole 5"

### Pumping Test

Static level 9'  
Test-pumping rate 10 G.P.M.  
Pumping level 35  
Duration of test pumping 1 hr  
Water clear or cloudy at end of test  
Recommended pumping rate 5 G.P.M.  
with pump setting of 60 feet below ground surface

### Well Log

### Water Record

#### Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0'</u>	<u>13'</u>	<u>83</u>	<u>fresh</u>
<u>limestone</u>	<u>13'</u>	<u>85'</u>		

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

new house

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr  
Ottawa 6

Licence Number 2857

Name of Driller or Borer H Mains

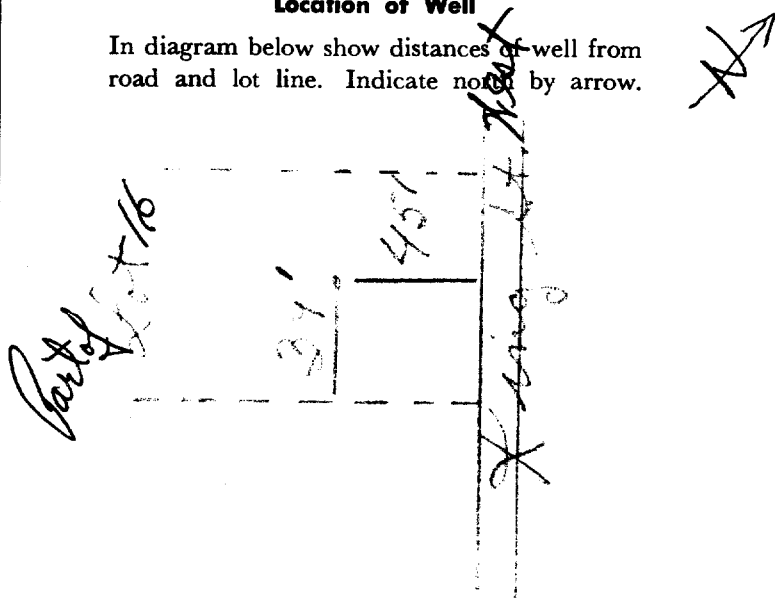
Address

Date 15 Oct 1968

Walter Kavanagh  
(Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



18 435 0815  
 14 50 04 13 01  
 0308



1509799

MAY 8 1968

The Ontario Water Resources Commission Act

# WATER WELL RECORD

ONTARIO WATER RESOURCES COMMISSION

County or District Carleton Township, Village, Town or City Richmond  
 Con. III Lot 24 Date completed 24 Apr 1968  
 (day month year)  
 Address Richmond Dnt

### Casing and Screen Record

Inside diameter of casing 5"  
 Total length of casing 23'  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 5"

### Pumping Test

Static level 5'  
 Test-pumping rate 10 G.P.M.  
 Pumping level 5'  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test cloudy  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 50 feet below ground surface

### Well Log

Overburden and Bedrock Record	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0'</u>	<u>14'</u>	<u>69'</u>	<u>fresh</u>
<u>sand &amp; boulders</u>	<u>14'</u>	<u>19'</u>		
<u>limestone</u>	<u>19'</u>	<u>70'</u>		

For what purpose(s) is the water to be used?  
new house

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

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Dr  
Ottawa 6

Licence Number 2857

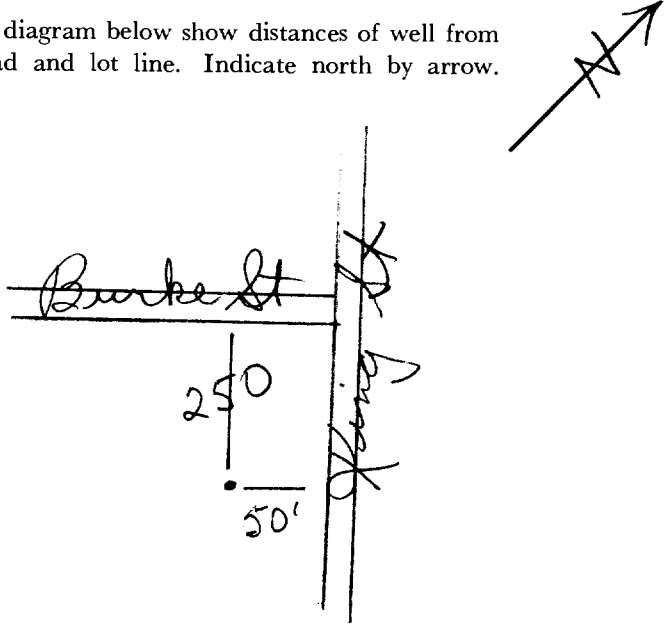
Name of Driller or Borer B. Acres

Date Apr 26 1968

Shalter Lavanagh  
 (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



Form 7 15M-60-4138

OWRC COPY

CSS.S8

JTW 18 435 015  
 48 5004 215  
 Elev. 0306  
 25



1509800  
 3

WATER RESOURCES  
 DIVISION  
 MAY 8 1968  
 ONTARIO WATER  
 RESOURCES COMMISSION

B

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# WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond  
 Con. 14 Lot 24 Date completed 29 Apr 1968  
 (day month year)  
 Address Richmond Ont.

## Casing and Screen Record

Inside diameter of casing 5"  
 Total length of casing 22'  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 5"

## Pumping Test

Static level 6'  
 Test-pumping rate 10 G.P.M.  
 Pumping level 14'  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test cloudy  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 30 feet below ground surface

## Well Log

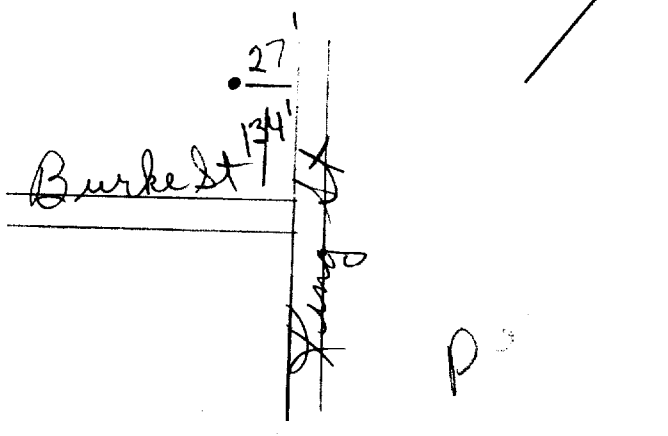
## Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0'</u>	<u>15'</u>	<u>58'</u>	<u>fresh</u>
<u>sand &amp; boulders</u>	<u>15'</u>	<u>17'</u>		
<u>limestone</u>	<u>17</u>	<u>60</u>		

For what purpose(s) is the water to be used?  
new house  
 Is well on upland, in valley, or on hillside?  
 Drilling or Boring Firm Capital Water Supply Ltd  
 Address 14 Ashford Dr  
Ottawa 6  
 Licence Number 2857  
 Name of Driller or Borer B Acres  
 Address  
 Date Apr 29 1968  
Thatcher Kavanagh  
 (Signature of Licensed Drilling or Boring Contractor)

## Location of Well

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



18-4341980  
 4504260  
 4-03051  
 25



316/4f  
 1510028  
 3 9

DIVISION OF WATER RESOURCES  
 MAY 5 1969  
 ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District Stittsville Township York Village, Town or City Stittsville  
 Con. T14 Lot 23 Date completed 3 10 1968  
 (day month year)  
 Address Richmond Ont.

### Casing and Screen Record

Inside diameter of casing 4"  
 Total length of casing 17'  
 Type of screen well  
 Length of screen 17'  
 Depth to top of screen 17'  
 Diameter of finished hole 4"

### Pumping Test

Static level 10  
 Test-pumping rate 5 G.P.M.  
 Pumping level 13  
 Duration of test pumping 2 hrs  
 Water clear or cloudy at end of test clear  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 25 feet below ground surface

### Well Log

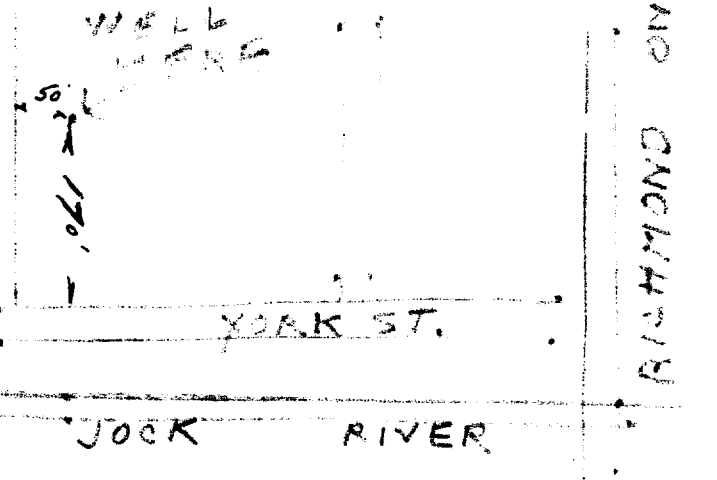
### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>Blue clay</u>	<u>0</u>	<u>15</u>		
<u>gravel</u>	<u>15</u>	<u>17</u>		
<u>grey limestone cack</u>	<u>17</u>	<u>20</u>	<u>40-60</u>	<u>fresh</u>

For what purpose(s) is the water to be used? new house  
 Is well on upland, in valley, or on hillside? valley  
 Drilling or Boring Firm Le. H. Sparks  
 Address 100 main St. Stittsville Ont.  
 Licence Number 3140  
 Name of Driller or Borer Rayton H. Sparks  
 Address 100 main St. Stittsville  
 Date Oct. 3 1968  
Rayton H. Sparks  
 (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



1 8 2 4 1 4 8 3 0  
 4 R 5 0 2 9 4 1 1 0  
 5 R 0 3 6 5  
 2 5



1510026

31F/8E

DIVISION OF  
 WATER RESOURCES  
 MAY 5 1969  
 ONTARIO WATER  
 RESOURCES COMMISSION

The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District Carleton Township, Village, Town or City Jitzroy  
 Con. 12 Lot 546 Date completed 23 JAN 1969  
 (day month year)  
 Address 255 Melville St. Apt 3169

## Casing and Screen Record

Inside diameter of casing 2"  
 Total length of casing 22'  
 Type of screen -  
 Length of screen -  
 Depth to top of screen -  
 Diameter of finished hole 2"

## Pumping Test

Static level 8'  
 Test-pumping rate 300 GAL PER HR. G.P.M.  
 Pumping level 22'  
 Duration of test pumping 2 HRS.  
 Water clear or cloudy at end of test CLEAR  
 Recommended pumping rate 300 GAL PER HR. G.P.M.  
 with pump setting of 22' feet below ground surface

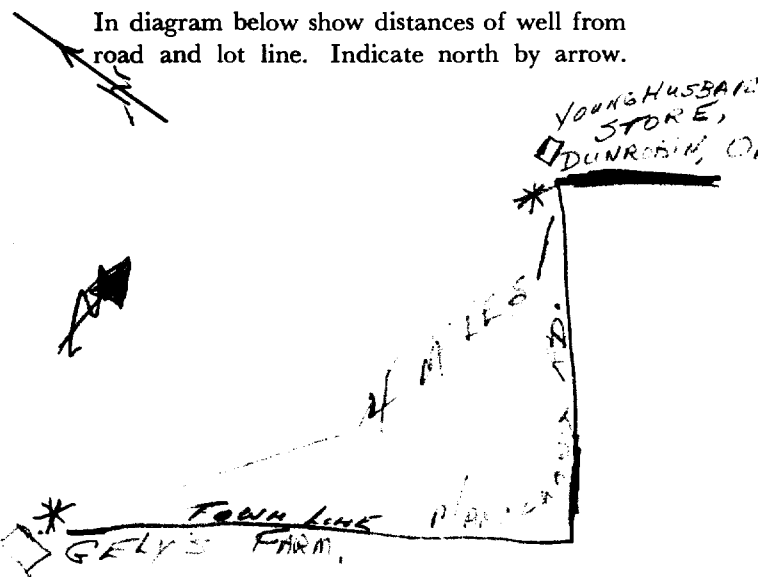
## Well Log

## Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>SAND.</u>	<u>0</u>	<u>11</u>		
<u>BLACK GRANITE</u>	<u>11</u>	<u>88'</u>	<u>88'</u>	<u>FRESH</u>

For what purpose(s) is the water to be used? HOUSE  
 Is well on upland, in valley, or on hillside? HILLSIDE  
 Drilling or Boring Firm W. A. DEEVY  
 Address 2898 HAUGHTON ST.  
OTTAWA 14 ONT  
 Licence Number.....  
 Name of Driller or Borer W. A. DEEVY  
 Address 2898 HAUGHTON ST  
 Date JANUARY 23 1969  
W. A. Deevy  
 (Signature of Licensed Drilling or Boring Contractor)

## Location of Well



WTM 18 2 4 3 5 1 4 0



316/4F

1510064

40 50 0 4 0 4 0

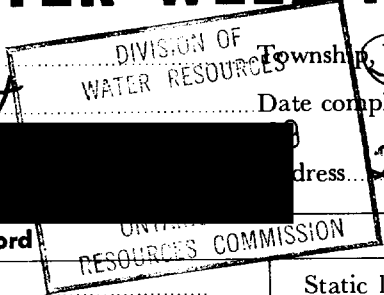
Water management in Ontario

The Ontario Water Resources Commission Act

ev 5 R 0 3 1 5

# WATER WELL RECORD

County or District Carl Township, Village, Town or City Richmond  
 Con. 112 Lot 34 Date completed 14 Apr. 1969  
 Address 218 Monterey Dr Ottawa



### Casing and Screen Record

Inside diameter of casing 5"  
 Total length of casing 38'  
 Type of screen  
 Length of screen  
 Depth to top of screen  
 Diameter of finished hole 5"

### Pumping Test

Static level 15'  
 Test-pumping rate 10 G.P.M.  
 Pumping level 20'  
 Duration of test pumping 1 hr  
 Water clear or cloudy at end of test  
 Recommended pumping rate 5 G.P.M.  
 with pump setting of 50 feet below ground surface

### Well Log

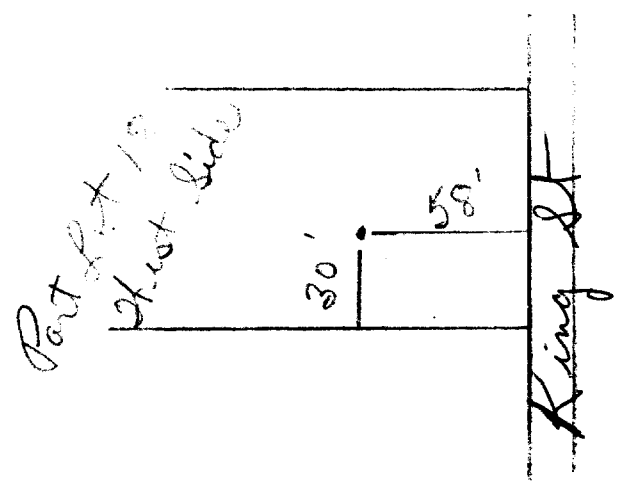
### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0</u>	<u>15'</u>	<u>84'</u>	
<u>sandy gravel with boulders</u>	<u>15'</u>	<u>29'</u>		
<u>limestone</u>	<u>29'</u>	<u>85'</u>		

For what purpose(s) is the water to be used?  
new house  
 Is well on upland, in valley or on hillside?  
 Drilling or Boring Firm Capital Water Supply Ltd.  
 Address 14 Ashford Dr  
Ottawa 6  
 Licence Number 3216  
 Name of Driller or Borer M. Kavanagh  
 Address  
 Date Apr 14 1969  
Halter Kavanagh  
 (Signature of Licensed Drilling or Boring Contractor)

### Location of Well

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



Form 7

OWRC COPY

CS3.53





# The Ontario Water Resources Commission Act

# WATER WELL RECORD

319/4F

Water management in Ontario

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2. CHECK  CORRECT BOX WHERE APPLICABLE

11

1510409

MUNICIP. 15701

CON. 10 14 15 22 23 24

COUNTY OR DISTRICT: Carl TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: \_\_\_\_\_ LOT: 25-27

OWNER (SURNAME FIRST): Star Quality Homes ADDRESS: Stittsville Ont. DATE COMPLETED: DAY 13 MO. 10 YR. 69

21 ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE  
 1 2 10 12 17 18 24 25 26 30 31

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>brown</u>	<u>clay</u>	<u>boulders</u>	<u>packed</u>	<u>0'</u>	<u>18'</u>
<u>grey</u>	<u>limestone</u>		<u>hard</u>	<u>18</u>	<u>60</u>

31 001860513 0060215

32

#### 41 WATER RECORD

WATER FOUND FEET	KIND OF WATER			
10-13	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>2 1/4</u>	<input checked="" type="checkbox"/> STEEL	<u>214</u>	<u>0</u>	<u>20</u>
<u>06</u>	<input type="checkbox"/> GALVANIZED		<u>20</u>	<u>60</u>
	<input type="checkbox"/> CONCRETE			
	<input checked="" type="checkbox"/> OPEN HOLE			<u>0060</u>

#### SCREEN

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

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_ FEET

#### 61 PLUGGING & SEALING RECORD

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

#### 71 PUMPING TEST

PUMPING TEST METHOD:  PUMP  BAILER

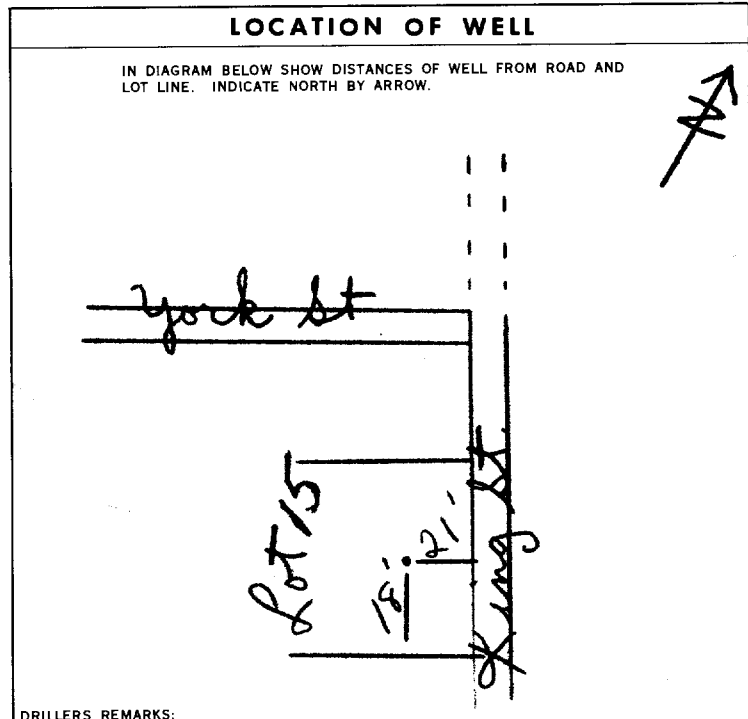
PUMPING RATE: 0010 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
<u>011</u> FEET	<u>013</u> FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		<u>013</u> FEET	<u>013</u> FEET	<u>013</u> FEET	<u>013</u> FEET

IF FLOWING, GIVE RATE: \_\_\_\_\_ GPM. PUMP INTAKE SET AT: \_\_\_\_\_ FEET. WATER AT END OF TEST:  CLEAR  CLOUDY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP. RECOMMENDED PUMP SETTING: 030 FEET. RECOMMENDED PUMPING RATE: 0005 GPM.

50-52 00510 GPM./FT. SPECIFIC CAPACITY



#### FINAL STATUS OF WELL

WATER SUPPLY  ABANDONED, INSUFFICIENT SUPPLY

OBSERVATION WELL  ABANDONED, POOR QUALITY

TEST HOLE  UNFINISHED

RECHARGE WELL

#### WATER USE

DOMESTIC  COMMERCIAL

STOCK  MUNICIPAL

IRRIGATION  PUBLIC SUPPLY

INDUSTRIAL  COOLING OR AIR CONDITIONING

OTHER  NOT USED

#### METHOD OF DRILLING

CABLE TOOL  BORING

ROTARY (CONVENTIONAL)  DIAMOND

ROTARY (REVERSE)  JETTING

ROTARY (AIR)  DRIVING

AIR PERCUSSION

#### CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply LICENCE NUMBER: 3216

ADDRESS: 14 Ashford Dr Ottawa

NAME OF DRILLER OR BOPER: J. Lavinagh LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: Walter Lavinagh SUBMISSION DATE: \_\_\_\_\_

#### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1503 DATE RECEIVED: 29.12.69

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: [Signature]

REMARKS: \_\_\_\_\_







COD ED

The Ontario Water Resources Commission Act

31648

# WATER WELL RECORD

Water management in Ontario

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COD ED 1510783

MUNICIP.

CDN.

COUNTY OR DISTRICT <b>CARLETON</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>Richmond</b>	CON., BLOCK, TRACT, SURVEY, ETC.	LOT 25-27
OWNER (SURNAME, FIRST) <b>Judicial Constr. Sd.</b>	ADDRESS <b>Richmond Ont</b>	DATE COMPLETED 48-53 DAY <b>9</b> MO. <b>10</b> YR. <b>70</b>	
ZONE <b>1B</b>	EASTING <b>434985</b>	NORTHING <b>604330</b>	RC <b>4</b>
ELEVATION <b>0308</b>	RC <b>4</b>	BASIN CODE <b>25</b>	

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY	SAND & STONES	PACKED	0	8
GREY	CLAY	BOULDERS	PACKED	8	12
GREY	LIMESTONE		HARD	12	55
BLACK	LIMESTON		HARD	55	65
grey	limestone		hard	65	207
grey	sandstone		hard	207	217

31	32
----	----

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
120	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
216	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
8 7/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	0	65
8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		65	217

### SCREEN

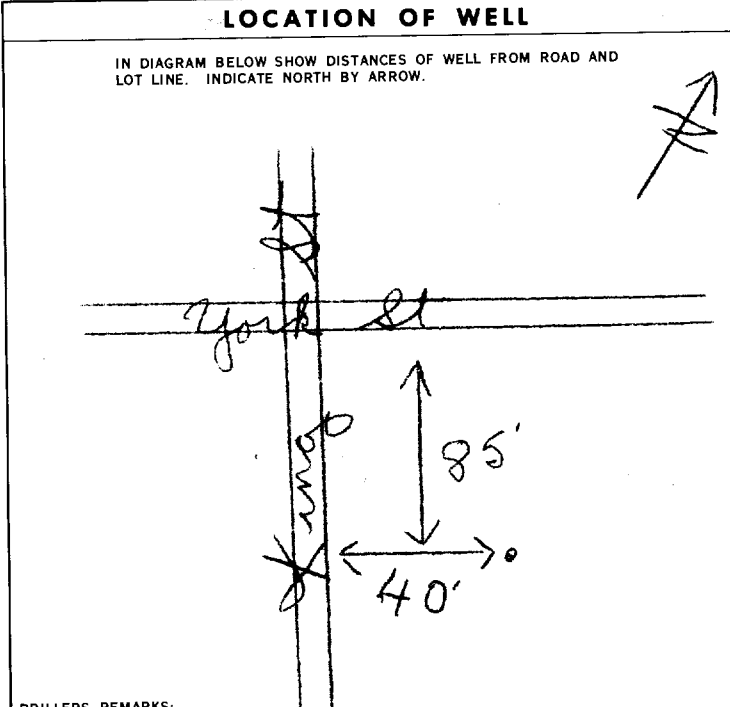
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE	DEPTH TO TDP OF SCREEN	

### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE GPM	DURATION OF PUMPING 15-16 HOURS 17-18 MINS.
STATIC LEVEL 19-21 FEET	WATER LEVEL END OF PUMPING 22-24 FEET	WATER LEVELS DURING 1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
IF FLOWING, GIVE RATE GPM	RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 200 FEET



### FINAL STATUS OF WELL

1 <input type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED, POOR QUALITY 7 <input type="checkbox"/> UNFINISHED
--	--

### WATER USE

1 <input type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL 5 <input type="checkbox"/> OTHER	6 <input type="checkbox"/> COMMERCIAL 7 <input checked="" type="checkbox"/> MUNICIPAL 8 <input type="checkbox"/> PUBLIC SUPPLY 9 <input type="checkbox"/> NOT USED
---	---

### METHOD OF DRILLING

1 <input type="checkbox"/> CABLE TOOL 2 <input checked="" type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input checked="" type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING
--	---

NAME OF WELL CONTRACTOR <b>Capital Water Supply</b>	LICENCE NUMBER <b>1558</b>
ADDRESS <b>14 Ashford Dr Ottawa</b>	
SIGNATURE OF CONTRACTOR <b>Walter Kavanagh</b>	SUBMISSION DATE DAY _____ MO. _____ YR. _____

DATA SOURCE	CONTRACTOR <b>230271</b>	DATE RECEIVED
DATE OF INSPECTION	INSPECTOR	
REMARKS:		



# WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK  CORRECT BOX WHERE APPLICABLE

11

1510923

MUNICIP. 15701

CON.

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: King St LOT: 6

OWNER (SURNAME FIRST): Julia Construction ADDRESS: Richmond Ont. DATE COMPLETED: DAY 20 MO. SEP YR. 70

ZONE: 18 EASTING: 434945 NORTHING: 5004290 RC: 4 ELEVATION: 0305 RC: 4 BASIN CODE: 25

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>brown</u>	<u>clay</u>	<u>stones</u>		<u>0</u>	<u>14</u>
<u>grey</u>	<u>limestone</u>			<u>14</u>	<u>55</u>

31 001400512 0053215

32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>.188</u>	<u>0</u>	<u>20</u>
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			<u>20-23</u>
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			<u>27-30</u>

### SCREEN

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

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD:  PUMP  BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37
<u>006</u>	<u>020</u>	<u>006</u> <u>006</u> <u>006</u> <u>006</u>

IF FLOWING, GIVE RATE: \_\_\_\_\_ GPM.

PUMP INTAKE SET AT: \_\_\_\_\_ FEET

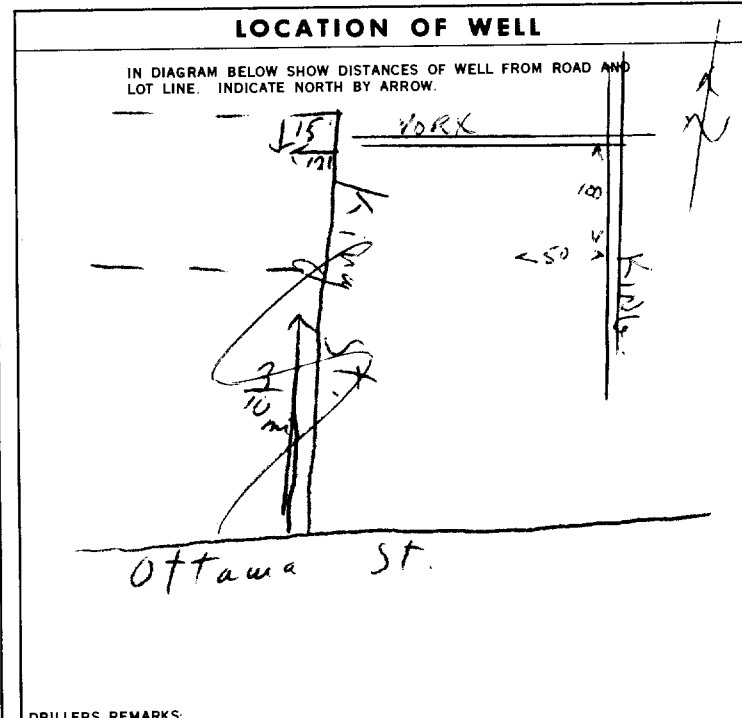
WATER AT END OF TEST: \_\_\_\_\_ FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 025 FEET

RECOMMENDED PUMPING RATE: 0010 GPM.

50-53 000.7 GPM./FT. SPECIFIC CAPACITY



### FINAL STATUS OF WELL

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

### WATER USE

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

### METHOD OF DRILLING

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

### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: Barry Acres LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: Henry Mains SUBMISSION DATE: DAY 30 MO. PT YR. 70

### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 201170

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: R/K

REMARKS: \_\_\_\_\_

1 8 2 4 3 5 2 2 0  
 4 R 5 0 0 3 8 5 0  
 EB 0 3 0 5  
 2 5



1510997 31614f B

The Ontario Water Resources Commission Act  
**WATER WELL RECORD**

County or District Grenville CARLETON Township, Village, Town or City Oxford Richmond  
 Con. TLL Lot 234 Date completed 14th June 1968  
 (day month year)  
 Address Kemptville, Ont.

**Casing and Screen Record**

Inside diameter of casing 6 3/16  
 Total length of casing 29  
 Type of screen -  
 Length of screen -  
 Depth to top of screen -  
 Diameter of finished hole 6

**Pumping Test**

Static level 4  
 Test-pumping rate 200 GPH GPM  
 Pumping level 24  
 Duration of test pumping 1/2 hr.  
 Water clear or cloudy at end of test clear  
 Recommended pumping rate 3 G.P.M.  
 with pump setting of 100 feet below ground surface

**Well Log**

**Water Record**

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay, sand, gravel mix</u>	<u>0</u>	<u>26</u>	<u>100</u>	<u>fresh</u>
<u>limestone</u>	<u>26</u>	<u>104</u>		

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

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

Drilling or Boring Firm

J.B. DUFRESNE & CO. LIMITED

Address 1014 Maitland Ave.,

Ottawa 5, Ont.

Licence Number 2999

Name of Driller or Borer R. Laniel

Address 6 Bellevue Cr. - Lucerne, Que.

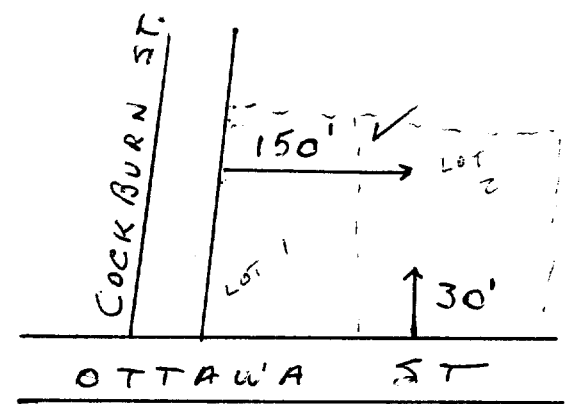
Date June 14th 1968

*R. Laniel*  
 (Signature of Licensed Drilling or Boring Contractor)  
 for: J.B. Dufresne & Co. Limited

Form 7 5M 60-20912

**Location of Well**

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



VILLAGE OF RICHMOND

P/km  
 LC/km

CS9.S8

OWRC COPY



2401870

316/4f B

1511083

1 8 2 4 3 5 1 9 0

4 5 0 0 3 8 4 0

5 R 0 3 0 5

The Ontario Water Resources Commission Act

# WATER WELL RECORD

County or District Grenville CARLETON Township, Village, Town or City Oxford Richmond

Con. T/L Lot + 24 Date completed 14th June 1968  
(day month year)

Address Kemptville, Ont.

### Casing and Screen Record

Inside diameter of casing 6 3/16  
 Total length of casing 29  
 Type of screen -  
 Length of screen -  
 Depth to top of screen -  
 Diameter of finished hole 6

### Pumping Test

Static level 10  
 Test-pumping rate 150 GPH ~~XXX~~  
 Pumping level 35  
 Duration of test pumping 1/2 hr.  
 Water clear or cloudy at end of test clear  
 Recommended pumping rate 2 G.P.M.  
 with pump setting of 78 feet below ground surface

### Well Log

### Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>Clay, sand, gravel mix</u>	<u>0</u>	<u>26</u>	<u>35-68</u>	<u>fresh</u>
<u>limestone</u>	<u>26</u>	<u>80</u>		

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

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

Drilling or Boring Firm

J.B. DUFRESNE & CO. LIMITED

Address 1014 Maitland Ave.,

Ottawa 5, Ont.

Licence Number 2999

Name of Driller or Borer R. Laniel

Address 6 Bellevue Cr. - Lucerne, Que.

Date June 14th 1968

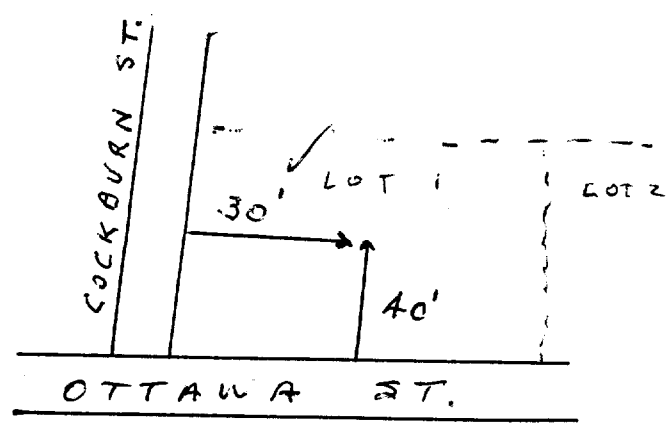
*(Signature)*  
for: J.B. Dufresne & Co. Limited

Form 7 5M 60-20912

OWRC COPY

### Location of Well

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



VILLAGE OF RICHMOND

CS9.S8

P/Km  
Lc/Km



# WATER WELL RECORD

3164F

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK  CORRECT BOX WHERE APPLICABLE

11 1511103-1 15701

COUNTY OR DISTRICT: CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: LOT 25-27

OWNER (SURNAME FIRST): JULIA CONST. LTD. ADDRESS: Richmond Ont. DATE COMPLETED: DAY 15 MO. 03 YR. 71

21 UTM ZONE: 18 EASTING: 435225 NORTHING: 5004520 RC: 4 ELEVATION: 0302 RC: 5 BASIN CODE: 25

**JULIA CONST. LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY	SAND & STONES	LOOSE	0	8
GREY	CLAY	SAND & BOULDERS	PACKED	8	12
GREY	LIMESTONE		HARD	12	164
GREY	SANDSTONE		HARD	164	190
WHITE	SANDSTONE		HARD	190	200
<b>APL</b>					

31 0008650912 00122050913 0164215 0190218 0200118

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
0080	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0105	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0165	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0189	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		0	64
10	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			20-23
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0270 GPM. DURATION OF PUMPING: 16 HOURS 00 MINS.

WATER LEVELS DURING PUMPING: 2  PUMPING 1  RECOVERY

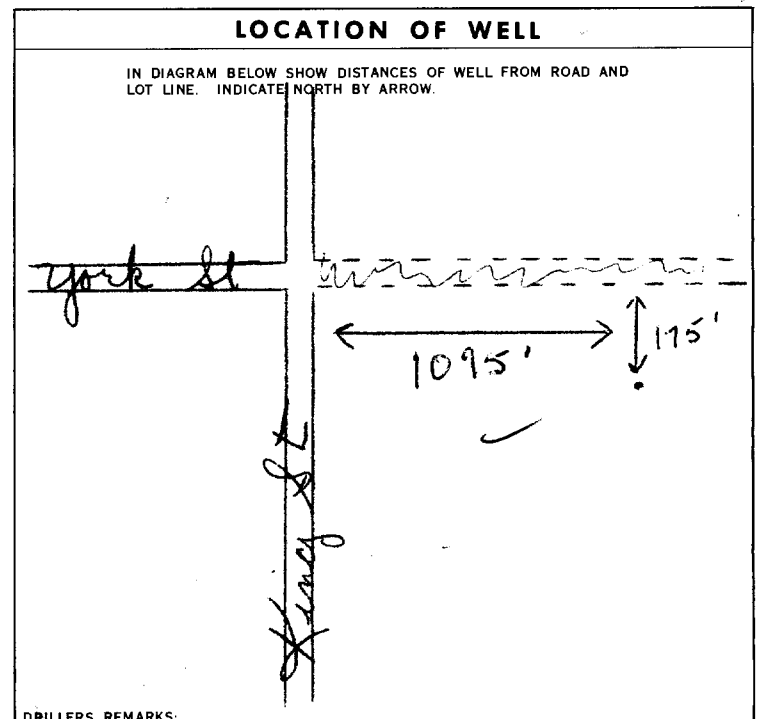
STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
47'	117'	110'	115'	116'	117'

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 180 FEET

RECOMMENDED PUMPING RATE: 0265 GPM.

50-53 002.4 GPM./FT. SPECIFIC CAPACITY



**FINAL STATUS OF WELL**

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

**WATER USE**

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

**METHOD OF DRILLING**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Capital Water Supply LICENCE NUMBER: 1558

ADDRESS: 14 Ashford Dr Ottawa

NAME OF DRILLER OR BORER: J Moore LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Walter Lavigne SUBMISSION DATE: MO. YR.

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 140470

DATE OF INSPECTION: INSPECTOR: K

REMARKS: PK

WI



# WATER WELL RECORD

Water management in Ontario

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

11  
1 2

1511257

3 1511257

MUNICIP. 15701

CON.

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond Ont CON., BLOCK, TRACT, SURVEY, ETC.: Albion St.

DATE COMPLETED: DAY 09 MO June YR 71

G 103.880<sup>95</sup> 24 RC 4 25 ELEVATION 031.0 26 RC 4 30 BASIN CODE 25 31

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	15
grey	hardpan	stones		15	20
grey	limestone			20	100

31 0015205 00202412 0100215

32

### 41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
10-13 <u>0100</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11 <u>05</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>1.88</u>	0	<u>0022</u>
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0005 GPM.

DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 <u>004</u>	22-24 <u>080</u>	15 MINUTES 25-28 <u>025</u> 30 MINUTES 29-31 <u>050</u> 45 MINUTES 32-34 <u>070</u> 60 MINUTES 35-37 <u>080</u>

IF FLOWING, GIVE RATE: \_\_\_\_\_

PUMP INTAKE SET AT: \_\_\_\_\_

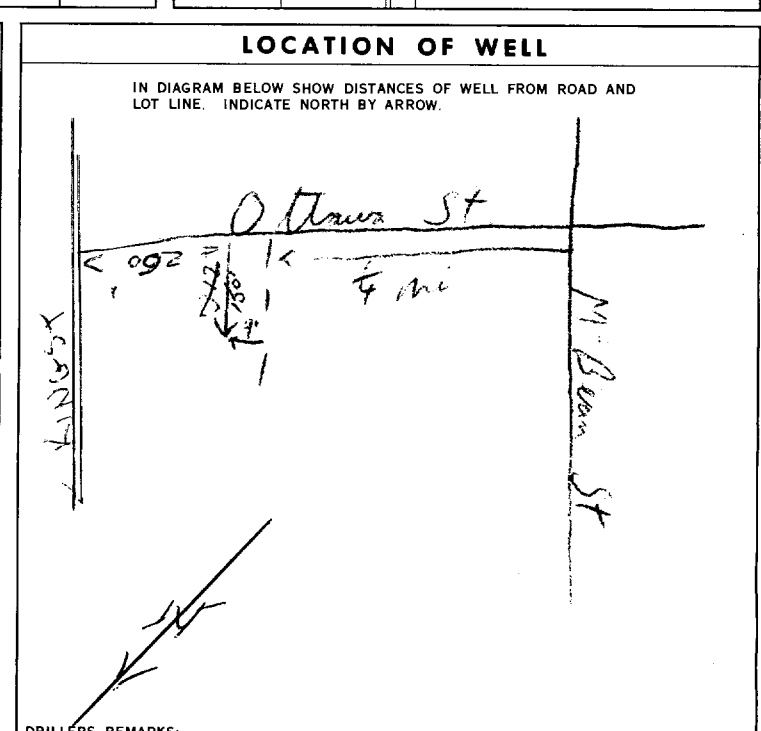
WATER AT END OF TEST: 1  CLEAR 2  CLOUDY

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 080 FEET

RECOMMENDED PUMPING RATE: 0005 GPM.

50-53 0.001 GPM./FT. SPECIFIC CAPACITY



### FINAL STATUS OF WELL

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

### WATER USE

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

### METHOD OF DRILLING

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

### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Maine Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORE: Henry Maine LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: Henry Maine SUBMISSION DATE: DAY 10 MO June YR 71

### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 08/17/71

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

P \_\_\_\_\_  
WI \_\_\_\_\_



Ontario

MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act

# WATER WELL RECORD

316/98

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

11 11514676 15003 CAN 03

COUNTY OR DISTRICT: Chatham TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Shelburne Richmond Can 3 CON., BLOCK, TRACT, SURVEY, ETC.: 026 LOT: 25-27

DATE COMPLETED: DAY 17 MONTH 03 YEAR 75

ING: 1514676 18: 155030 004435 4 306 4 26 AUG 04, 1977 303

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay		loamy	0	4
brown	sand			4	10
grey	clay	stones		10	45
grey	limestone			45	95

31 000420502 0010628 004520512 0095215

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
15-18	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0048
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HDLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

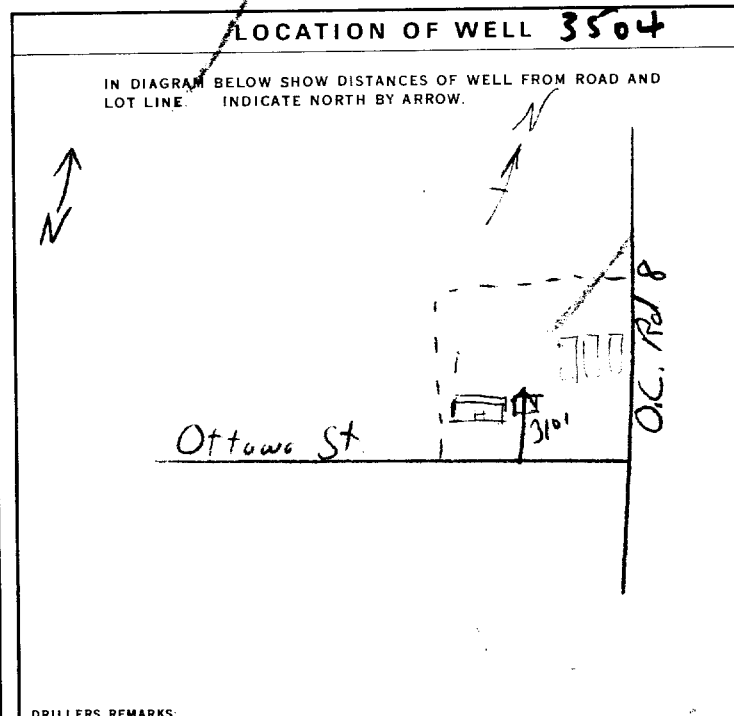
PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0010 GPM DURATION OF PUMPING: 01 15-16 HOUR 00 17-18 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21	22-24	15 MINUTES 26-28 050 30 MINUTES 29-31 050 45 MINUTES 32-34 050 60 MINUTES 35-37 050

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 050 FEET RECOMMENDED PUMPING RATE: 0010 GPM



**FINAL STATUS OF WELL** 54

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

**WATER USE** 55-56

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

**METHOD OF DRILLING** 57

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: 96 326, Richmond Ont.

NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY 29 MO. 3 YR. 75

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 290575

DATE OF INSPECTION: 26 Jun 76 INSPECTOR: P/R Dosh

REMARKS: \_\_\_\_\_

P

WI





Ontario

# WATER WELL RECORD

316/4F

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

11

1514856

MUNICIPALITY 15701

COUNTY OR DISTRICT *West*  
*Carleton* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE *Richmond* CON. BLOCK, TRACT, SURVEY, ETC. *M. Bean St.* LOT 25-27

*Richmond Ont.* DATE COMPLETED DAY 31 MO 07 YR 75

004324 4 306 4 26 JUN 28, 1977 300

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>gray</i>	<i>clay</i>			0	15
<i>gray</i>	<i>limestone</i>			15	55

31 0015205 0056215

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
0053 10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
28-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	25
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

**SCREEN**

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		80

**61 PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
28-29	30-33

**71 PUMPING TEST**

PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0004 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING				RECOVERY
006 19-21	030 22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	
		030 29-31	030 32-34	030 35-37		

IF FLOWING, GIVE RATE: 38-41 GPM

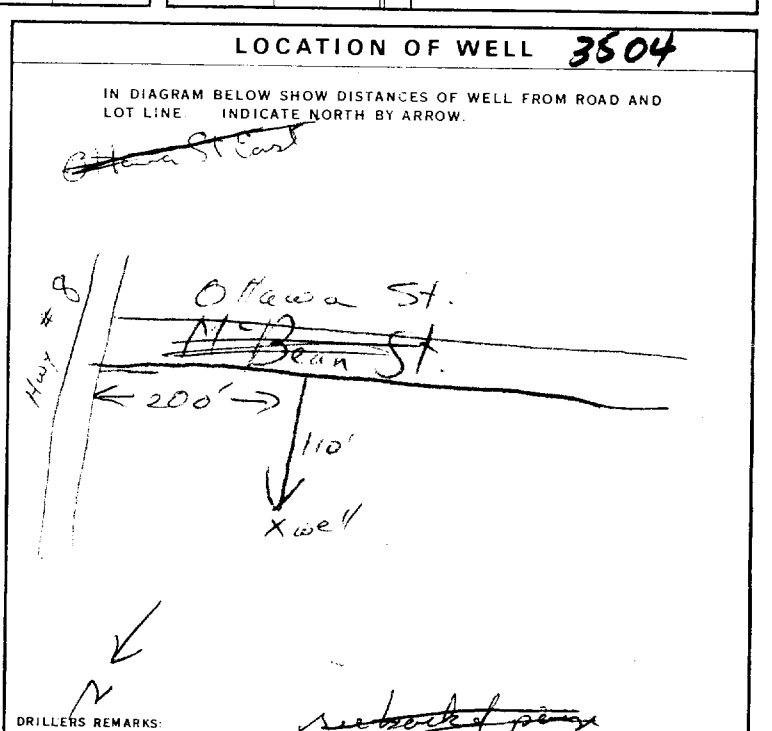
PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: 42 FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0003 GPM



**FINAL STATUS OF WELL** 1

**WATER USE** 01

**METHOD OF DRILLING** 5

**CONTRACTOR**

NAME OF WELL CONTRACTOR: *Henry Mann Well Drilling* LICENSE NUMBER: *3644*

ADDRESS: *Box 326 Richmond Ont.*

NAME OF DRILLER OR BORER: *H. Mann* LICENSE NUMBER:

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY 31 MD 7 YR 75

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 150875

DATE OF INSPECTION: *June 14/1976* INSPECTOR: *[Signature]*

REMARKS: *Con. III Lot 25*

P *[Signature]*

WI



Ontario

# WATER WELL RECORD

3194F

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

11

1515324

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Richmond CON., BLOCK, TRACT, SURVEY, ETC. Ottawa St.

NAME Richmond Ont DATE COMPLETED DAY 14 MO. 04 YR. 76

NO. 003852 RC 4 ELEVATION 308 RC 4 BASIN CODE 26 JUN 28, 1977 300

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	28
grey	limestone			28	45

31 0028205 0045215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

WIRE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1/8"	0	031
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO	
10-13 14-17	
18-21 22-25	
26-29 30-33 80	

71 PUMPING TEST METHOD

1  PUMP 2  BAILER

PUMPING RATE 0008 GPM

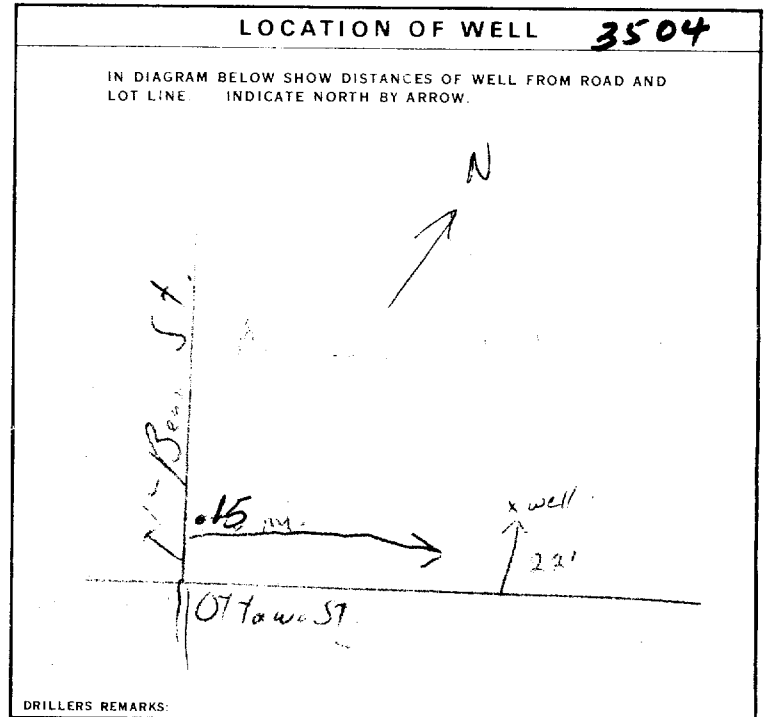
DURATION OF PUMPING 01 15-16 00 17-18 HOURS MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
008	030	15 MINUTES 030	30 MINUTES 030	45 MINUTES 030	60 MINUTES 030

RECOMMENDED PUMP TYPE  SHALLOW  DEEP

RECOMMENDED PUMP SETTING 030 FEET

RECOMMENDED PUMP RATE 0005 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 5

CONTRACTOR

NAME OF WELL CONTRACTOR Henry Mans Well Drilling LICENCE NUMBER 3644

ADDRESS Box 326 Richmond Ont.

NAME OF DRILLER OR BORER [Signature] LICENCE NUMBER

SIGNATURE OF CONTRACTOR [Signature] SUBMISSION DATE DAY 18 MO. 7 YR. 76

OFFICE USE ONLY

DATA SOURCE 1 CONTRACTOR 3644 DATE RECEIVED 060576

DATE OF INSPECTION June 16, 1976 INSPECTOR Col Pentney

REMARKS Con III Lot 23

P. [Signature]  
WI

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

11 1516664

MUNICIPALITY: \_\_\_\_\_ LOT: 25-27  
ELEVATION: \_\_\_\_\_

COUNTY OR DISTRICT: Carleton Place  
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Houlbourn  
CON. BLOCK, TRACT, SURVEY ETC.: Village Richmond  
DATE COMPLETED: \_\_\_\_\_  
DAY: 15 MD: 8 YR: 78  
ADDRESS: 88 Kehoe Ottawa, Ont

**LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	hardpan	sand + boulders		0	15
grey	hardpan	boulders		15	29
grey	limestone		broken	29	35

31 \_\_\_\_\_  
32 \_\_\_\_\_

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	0	29
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		29	35

**SCREEN**

SIZE S. OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET

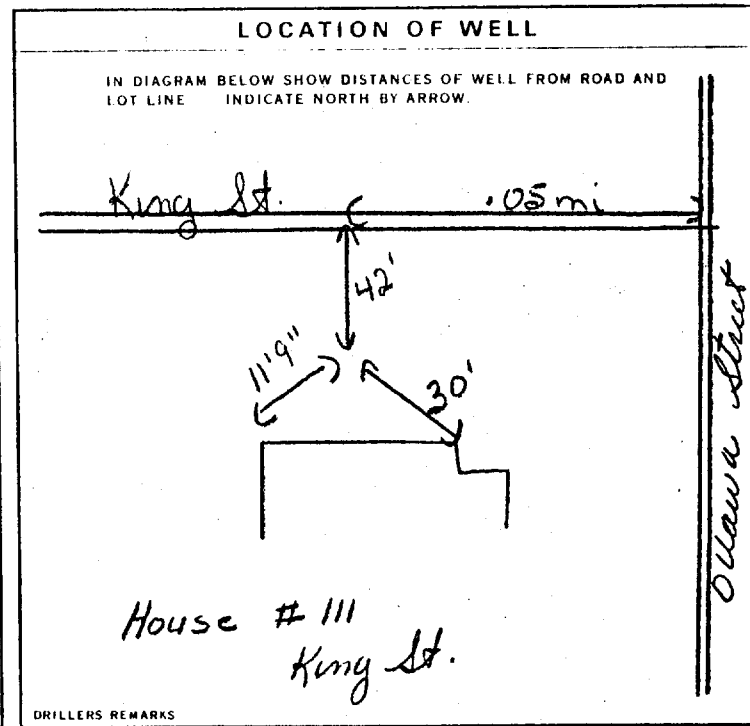
MATERIAL AND TYPE: \_\_\_\_\_  
DEPTH TO TOP OF SCREEN: \_\_\_\_\_ FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	25 GPM	1 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
10 FEET	25 FEET	15 MINUTES: 25 FEET 30 MINUTES: 25 FEET 45 MINUTES: 25 FEET 60 MINUTES: 25 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	25 FEET	5 GPM



**FINAL STATUS OF WELL**

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

**WATER USE**

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

**METHOD OF DRILLING**

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

**CONTRACTOR**

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LTD LICENCE NUMBER: 1558  
ADDRESS: Box 490, STITTSVILLE  
NAME OF DRILLER OR BORER: S. Miller LICENCE NUMBER: \_\_\_\_\_  
SIGNATURE OF CONTRACTOR: W. Kuciaruk SUBMISSION DATE: DAY 16 MD 8 YR 78

**OFFICE USE ONLY**

DATA SOURCE: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_ DATE RECEIVED: 080978  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_



# WATER WELL RECORD

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

11

1516664

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Goulbourn CON., BLOCK, TRACT, SURVEY, ETC.: Village Richmond LOT: 19

OWNER (SURNAME FIRST): OSTENDORFER, G. L. D. ADDRESS: 208 Kehoe Ottawa, Ont DATE COMPLETED: 15 MO. 08 YR 78

ZONING: 18 EASTING: 435220 NORTHING: 5003960 ELEVATION: 40310 BASIN CODE: 426

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)				
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	DEPTH - FEET	
			FROM	TO
Brown	hardpan	sand + boulders	0	15
grey	hardpan	boulders	15	29
grey	limestone		29	35
		broken		

31 00156142813 002921413 003521571

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>030</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

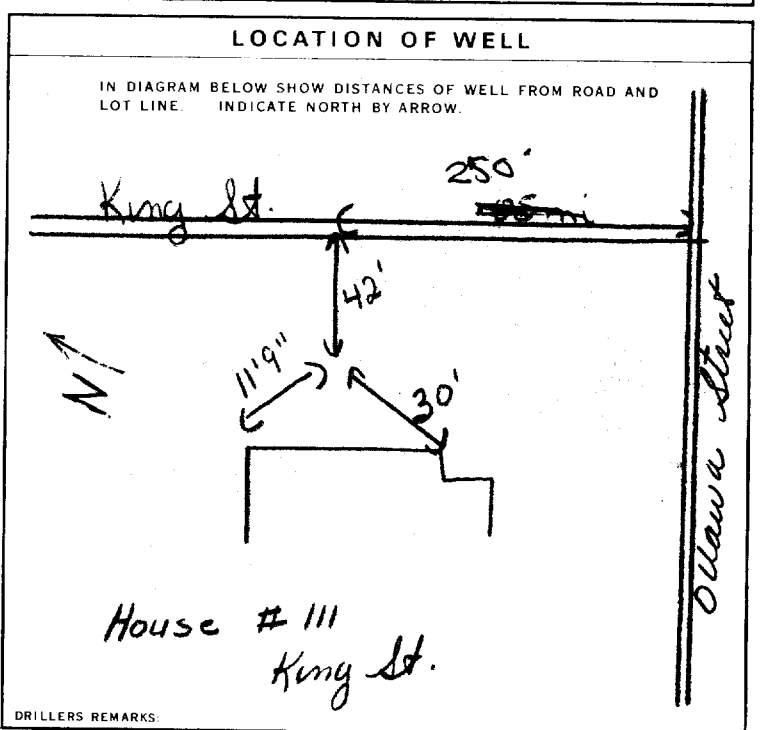
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>6 1/4</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>.188</u>	0	<u>29</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			<u>0029</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		29	<u>35</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			<u>27-30</u>

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	<u>0025</u> GPM	<u>01</u> HOURS <u>00</u> MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
<u>010</u> FEET	<u>025</u> FEET	15 MINUTES: <u>025</u> FEET 30 MINUTES: <u>025</u> FEET 45 MINUTES: <u>025</u> FEET 60 MINUTES: <u>025</u> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	<u>025</u> FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	<u>025</u> FEET	<u>0005</u> GPM



FINAL STATUS OF WELL: 1  WATER SUPPLY

WATER USE: 1  DOMESTIC

METHOD OF DRILLING: 5  AIR PERCUSSION

CONTRACTOR: CAPITAL WATER SUPPLY LTD, LICENCE NUMBER: 1558

NAME OF DRILLER OR BORER: S. Miller, LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: W. Kawmack, SUBMISSION DATE: DAY 16 MO 8 YR 78

OFFICE USE ONLY

DATA SOURCE: 1, CONTRACTOR: 1558, DATE RECEIVED: 080978

DATE OF INSPECTION: 12/5/79, INSPECTOR: Km J.P.P.

The Ontario Water Resources Board  
**WATER WELL LOG**

1516764

1 PRINT ONLY IN SPACES PROVIDED  
2 CHECK FOR CORRECT USE AND APPLICABLE

DISTRICT: *Carleton Place* TOWNSHIP: *Richmond* LOT: *113*  
 LOCATION: *King St. 7 Dell Ave. Ccs. Richmond Ont.* DATE COMPLETED: DAY *4* MO *8* YR *78*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MINERAL COMMON MATERIAL	OTHER MATERIALS	DEPTH - FEET	
			FROM	TO
<i>grey</i>	<i>clay</i>	<i>hardpan</i>	<i>0</i>	<i>28</i>
<i>grey</i>	<i>limestone</i>		<i>28</i>	<i>64</i>

**WATER RECORD**

WATER FOUND AT: *60*

TYPE OF WATER:  
 SURFACE  
 GROUND  
 OTHER

QUALITY:  
 FRESH  
 SALTY  
 OTHER

**CASING & OPEN HOLE RECORD**

DEPTH (FEET): *6* *188* *0* *31*

**SCREEN**

SCREEN MATERIAL AND TYPE: \_\_\_\_\_

SCREEN LENGTH (FEET): \_\_\_\_\_

**PLUGGING & SEALING RECORD**

PLUG MATERIAL AND TYPE: \_\_\_\_\_

PLUG LENGTH (FEET): \_\_\_\_\_

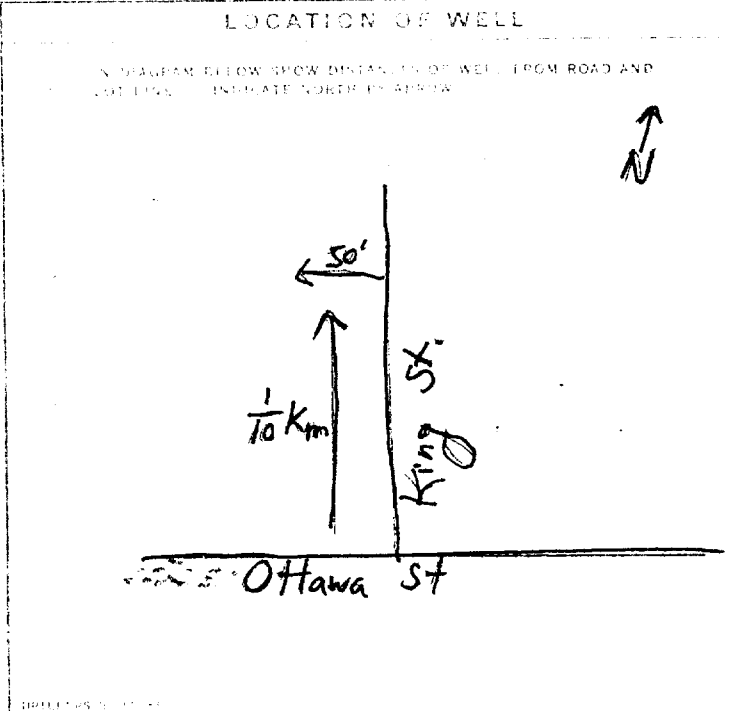
**PUMPING TEST**

PUMP TYPE:  PUMP  RAISER

FLOW RATE: *15 GPM* / *0*

STATIC LEVEL (FEET)	WELL HEAD (FEET)	WATER LEVEL (FEET)	DELIVERED (GPM)
<i>15</i>	<i>25</i>	<i>25</i>	<i>25</i>
<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>

RECOMMENDED PUMPING RATE: *30* (GPM) / *5* (FEET)



**FINAL STATUS OF WELL**

WATER SUPPLY  
 OBSERVATION WELL  
 TEST WELL  
 REDUCED WELL

**WATER USE**

DOMESTIC  
 STOCK  
 IRRIGATION  
 INDUSTRIAL  
 OTHER

**METHOD OF DRILLING**

CASE TOOL  
 ROTARY (CONVENTIONAL)  
 ROTARY (REVERSE)  
 ROTARY (AIR)  
 OTHER

CONTRACTOR: *Henry Mairns Well Drilling 3644*  
 ADDRESS: *Box 326 Richmond Ont*  
 NAME OF DRILLER: *Henry Mairns*  
 SIGNATURE OF CONTRACTOR: \_\_\_\_\_

OFFICE USE ONLY: *3644* *271178*

DATE: *10 8 78*



# WATER WELL RECORD

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

11

1516764

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGHS, CITY, TOWN, VILLAGE

CON., BLOCK, TRACT, SURVEY, ETC.

LOT

Carleton Place

Richmond Hill

King St.

#319

7 Bell Air Cres Richmond Hill

DATE COMPLETED DAY 04 MO. 08 YR. 78

GRID REFERENCE 003980

PC 4

ELEVATION 0310

PC 4

DEPTH CODE 26

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	hardpan		0	28
grey	limestone			28	64

31 002820514 0064215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0060	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0-31
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		31-64
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		64-80

SCREEN

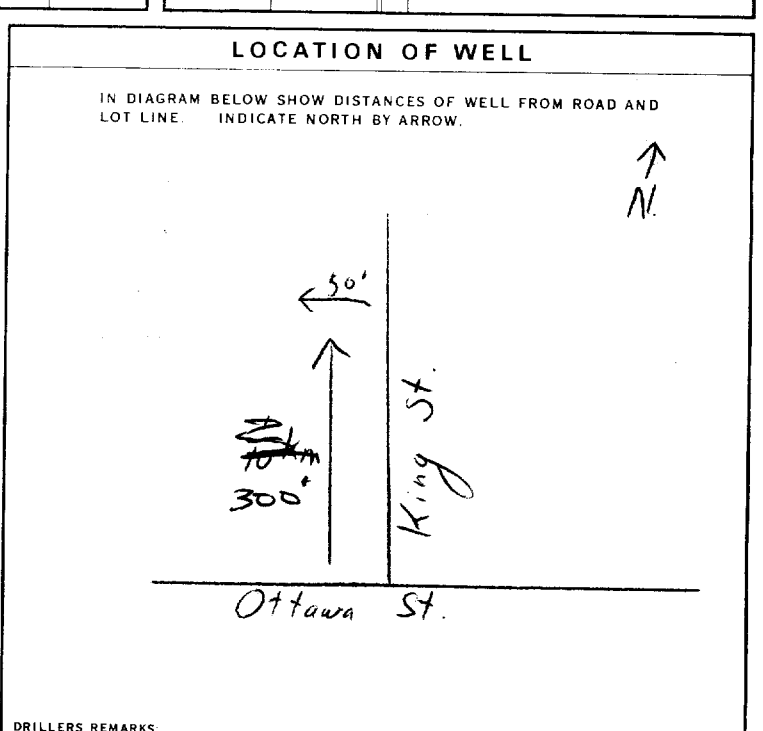
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0015 GPM	DURATION OF PUMPING 01 15-16 HOURS 00 17-18 MINS
STATIC LEVEL 015 FEET	WATER LEVEL END OF PUMPING 025 FEET	WATER LEVELS DURING 15 MINUTES 025 FEET 30 MINUTES 025 FEET 45 MINUTES 025 FEET 60 MINUTES 025 FEET
IS FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 030 FEET	RECOMMENDED PUMPING RATE 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mairs Well Drilling  
LICENCE NUMBER: 3644  
ADDRESS: Box 326, Richmond Ont.  
NAME OF DRILLER OR OPERATOR: Henry Mairs  
SIGNATURE OF CONTRACTOR: [Signature]  
SUBMISSION DATE: DAY 10 MO. 8 YR. 78

OFFICE USE ONLY

DATA SOURCE: 1  
CONTRACTOR: 3644  
DATE RECEIVED: 271178  
DATE OF INSPECTION: 14/5/79  
INSPECTOR: Km. J.P.P.

The Ontario Water Resources Board  
**WATER WELL LOG**

1516764

1 PRINT ONLY IN SPACES PROVIDED  
 2 CHECK FOR CORRECT USE AS APPLICABLE

DISTRICT: *Carleton Place* TOWN: *Richmond Hill* LOT: *113*  
 ADDRESS: *7 Dell Ave. Cess. Richmond Hill Ont.* DATE COMPLETED: DAY *4* MO *8* YR *78*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	NATURAL COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>grey</i>	<i>clay</i>	<i>hardpan</i>		<i>0</i>	<i>28</i>
<i>grey</i>	<i>limestone</i>			<i>28</i>	<i>64</i>

41 WATER RECORD

WATER FOUND AT: *60*

TYPE OF WATER:  
 SURFACE  
 WELLS  
 RIVERS  
 LAKES  
 OTHER

QUALITY:  
 SWEET  
 SALTY  
 MINERAL  
 OTHER

42 CASING & OPEN HOLE RECORD

DEPTH (FEET): *6* *188* *0* *31*

SCREEN RECORD

SCREEN TYPE:  WIRE MESH  SLANT SCREEN

SCREEN SIZE (INCHES):  1/2"  3/4"  1"  1 1/2"  2"

43 PLUGGING & SEALING RECORD

PLUG TYPE:  GRAVEL  SAND  OTHER

PLUG LOCATION (FEET):  AT SURFACE  AT OTHER DEPTH

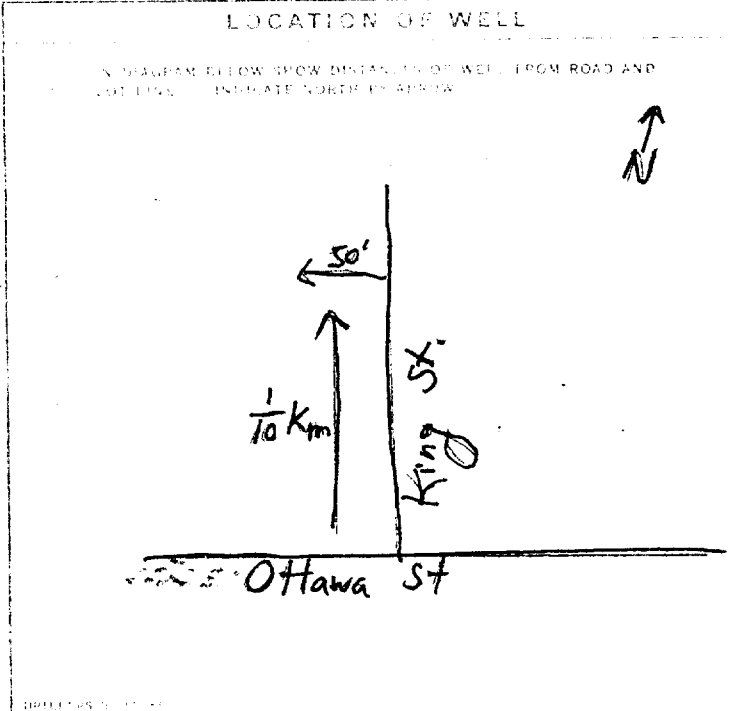
44 PUMPING TEST

PUMP TYPE:  PUMP  RAISER

WATER DELIVERY RATE: *15 GPM* / *0*

STATIC LEVEL (FEET)	WELL HEAD (FEET)	WATER LEVEL (FEET)	WELL HEAD (FEET)	WATER LEVEL (FEET)	WELL HEAD (FEET)	WATER LEVEL (FEET)
<i>15</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>

RECOMMENDED PUMPING RATE: *30* / *5*



46 FINAL STATUS OF WELL

WATER SUPPLY  ABANDONED - EFFICIENT SUPPLY

OBSERVATION WELL  ABANDONED - POOR QUALITY

TEST WELL  UNFINISHED

RED ROCK WELL

WATER USE:  
 DOMESTIC  COMMERCIAL  
 STOCK  MUNICIPAL  
 IRRIGATION  PUBLIC SUPPLY  
 INDUSTRIAL  COOLING OR AIR CONDITIONING  
 OTHER  NOT USED

METHOD OF DRILLING:  
 CASE TOOL  BURIED  
 ROTARY (CONVENTIONAL)  DIAMOND  
 ROTARY (REVERSE)  TEST  
 ROTARY (AIR)  OTHER

CONTRACTOR: *Henry Mairns Well Drilling 3644*  
 ADDRESS: *Box 326 Richmond Ont*  
 NAME OF DRILLER: *Henry Mairns*  
 SIGNATURE OF CONTRACTOR: *Henry Mairns*  
 DATE: *10 8 78*

OFFICE USE ONLY: *3644* *271178*



# WATER WELL RECORD

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

11

1516764

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: King St. LOT: #319

DATE COMPLETED: DAY 04 MO. 08 YR. 78

WELL NUMBER: 003980 ELEVATION: 40310 BENCH CODE: 4261

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	hardpan		0	28
grey	limestone			28	64

31 002820514 0064215

32

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0-31
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

#### SCREEN

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

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 FEET

#### 61 PLUGGING & SEALING RECORD

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

#### 71 PUMPING TEST

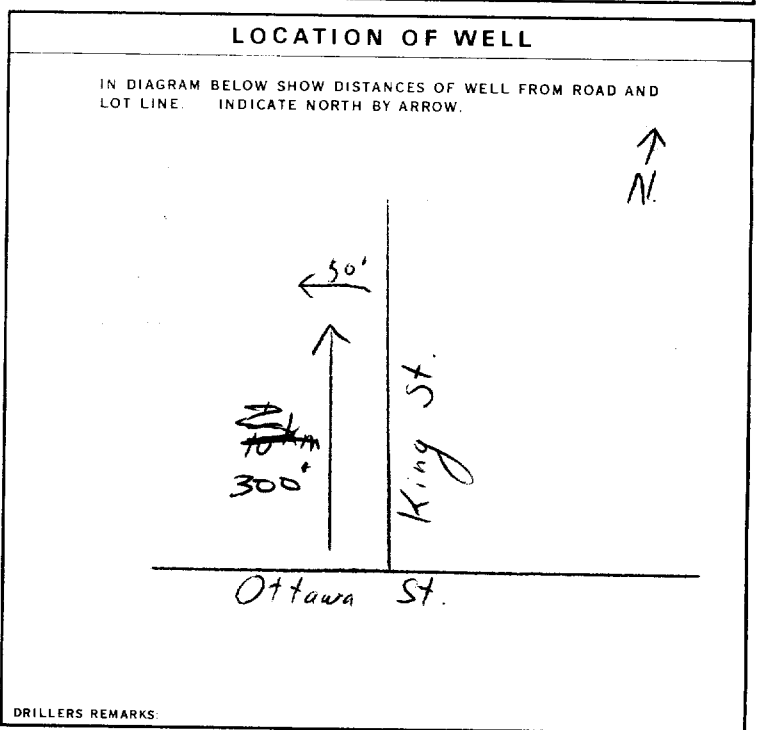
PUMPING TEST METHOD: 1  PUMP 2  BAILER

PUMPING RATE: 0015 GPM DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 FEET	22-24 FEET	15 MINUTES 25-28 FEET 30 MINUTES 29-31 FEET 45 MINUTES 32-34 FEET 60 MINUTES 35-37 FEET
<u>015</u>	<u>025</u>	<u>025</u> <u>025</u> <u>025</u> <u>025</u>

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 030 FEET RECOMMENDED PUMPING RATE: 0005 GPM



#### FINAL STATUS OF WELL

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

#### WATER USE

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

#### METHOD OF DRILLING

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mairs Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR OPERATOR: Henry Mairs LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY 10 MO. 8 YR. 78

#### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 271178

DATE OF INSPECTION: 14/5/79 INSPECTOR: Km. J.P.P.

REMARKS: \_\_\_\_\_





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

11 1517200 15701 102  
MUNICIPALITY: 15701 CON. NO.: 102  
COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Goulbourn  
CON. BLOCK, TRACT, SURVEY, ETC.: 2 LOT: 25-27  
DATE COMPLETED: 10-07-79  
ADDRESS: 5 Bentley Ave. Nepean, Ont. K2E 6T7  
H.M.S. NO.: 003699 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Clay			0	7
	Limestone			7	180
	Sandstone	Limestone		180	200

31 0007 09 0180 15 0200 18/5  
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0180	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
200	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	0 0021
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

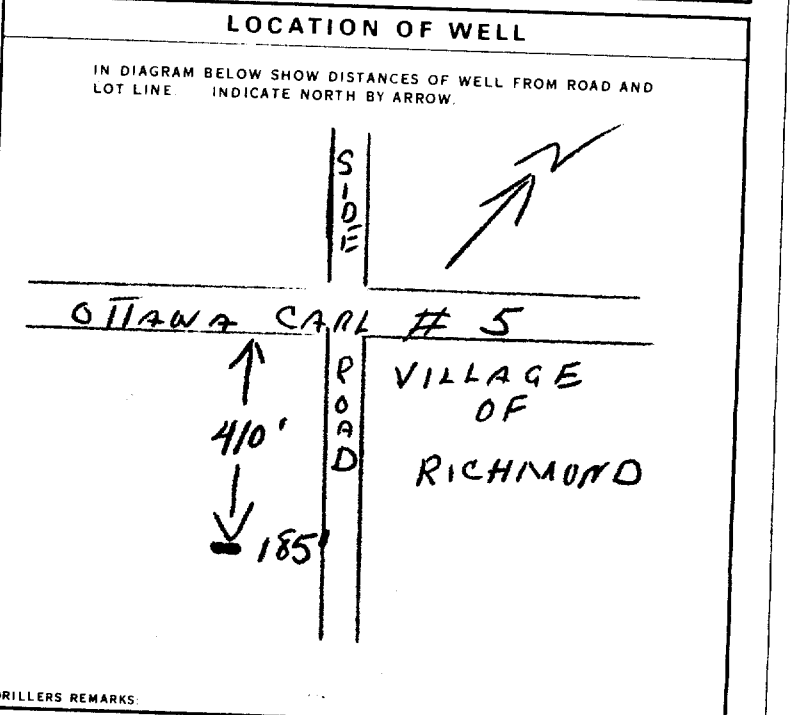
SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
10-13	14-17
16-21	22-25
26-29	30-33

71 PUMPING TEST

1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	10 PUMPING RATE: 0010 GPM	11-14 DURATION OF PUMPING: 00 HOURS	15-16 30-17-18 PUMPING RECOVERY: 30 MINS
STATIC LEVEL: 010 FEET	WATER LEVEL END OF PUMPING: 195 FEET	WATER LEVELS DURING:	
PUMP INTAKE SET AT: 160 FEET		WATER AT END OF TEST: 110 FEET	



FINAL STATUS OF WELL: 1  WATER SUPPLY

WATER USE: 01  DOMESTIC

METHOD OF DRILLING: 4  ROTARY (CONVENTIONAL)

NAME OF WELL CONTRACTOR: McLean Water Supply Ltd. LICENCE NUMBER: 3504

ADDRESS: 1532 R. ven Ave., Ottawa, Ont.

NAME OF DRILLER OR BORER: A. Scharf LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: A. Scharf SUBMISSION DATE: 11 MO 7 YR 79

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3504 DATE RECEIVED: 150180

DATE OF INSPECTION: INSPECTOR: [Signature]

REMARKS:

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

11 1517577 1.5008 RF 06

COUNTY OR DISTRICT: *Pelee* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Pelee* CON. BLOCK, TRACT, SURVEY, ETC.: *Conle* LOT: *003*  
 WELL # *Richmond KOA220* DATE COMPLETED: *25 08 81*  
 RING: *004199* RC: *4* ELEVATION: *0310* RC: *4* BASIN CODE: *26*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>grey</i>	<i>clay</i>			<i>0</i>	<i>20</i>
<i>grey</i>	<i>hardpan</i>	<i>stones</i>		<i>20</i>	<i>41</i>
<i>grey</i>	<i>limestone</i>			<i>41</i>	<i>125</i>

MOE VF-18

31 *0020205* *004121412* *0125215*  
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
<i>0/20</i>	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<i>110</i>	<input checked="" type="checkbox"/> STEEL	<i>188</i>	<i>0</i>	<i>13</i>
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			
<i>17-18</i>	<input type="checkbox"/> STEEL			<i>20-23</i>
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			
<i>24-25</i>	<input type="checkbox"/> STEEL			<i>27-30</i>
	<input type="checkbox"/> GALVANIZED			
	<input type="checkbox"/> CONCRETE			
	<input type="checkbox"/> OPEN HOLE			

SCREEN

SIZE (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_ FEET

61 PLUGGING & SEALING RECORD

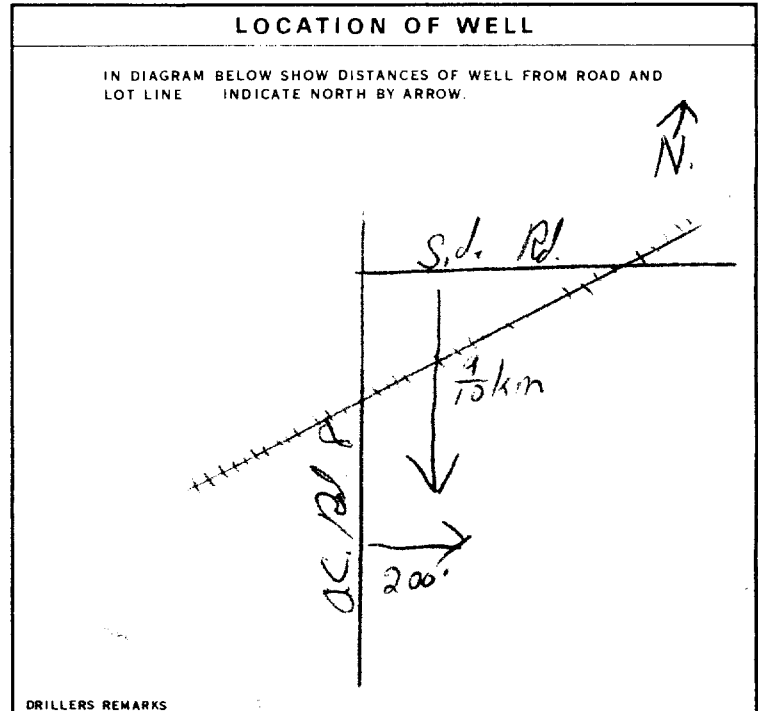
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
<i>10-13</i>	<i>14-17</i>	
<i>18-21</i>	<i>22-25</i>	
<i>26-28</i>	<i>30-33</i>	

71 PUMPING TEST METHOD:  PUMP  BAILER

PUMPING RATE: *000* GPM DURATION OF PUMPING: *01:00* HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
<i>015</i>	<i>060</i>	15 MINUTES: <i>060</i>	30 MINUTES: <i>060</i>	45 MINUTES: <i>060</i>	60 MINUTES: <i>060</i>

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP



FINAL STATUS OF WELL: *1*

WATER USE: *12*

METHOD OF DRILLING: *2*

CONTRACTOR: *Henry Mairs Well Drilling* LICENCE NUMBER: *3644*  
 ADDRESS: *Box 326, Richmond Ont.*  
 NAME OF DRILLER OR BORER: *Henry Mairs* LICENCE NUMBER: \_\_\_\_\_  
 SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: *2 8 81*

OFFICE USE ONLY

DATA SOURCE: *1* CONTRACTOR: *3644* DATE RECEIVED: *210881*

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

# WATER WELL RECORD

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

11 1517853 15701 CON 03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: Burke St. LOT: 024

OWNER (SURNAME FIRST): Rea J. E. Construction ADDRESS: Richmond Ont. KOA 220 DATE COMPLETED: DAY 27 MO 05 YR 82

ZONE: 18 EASTING: 435099 NORTHING: 5004099 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	18
grey	limestone			18	105

31 0018205 0105215

32

**41 WATER RECORD**

WATER FOUND AT - FEET	KIND OF WATER			
0/00	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
25-26	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

**51 CASING & OPEN HOLE RECORD**

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06	<input checked="" type="checkbox"/> STEEL	188	0	20
17-15	<input type="checkbox"/> STEEL			20-23
24-25	<input type="checkbox"/> STEEL			27-30

**SCREEN**

SIZE OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 FEET

**61 PLUGGING & SEALING RECORD**

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

**71 PUMPING TEST**

PUMPING TEST METHOD:  PUMP  BAILER

PUMPING RATE: 0006 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING					
0/2	080	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	75 MINUTES	90 MINUTES
		080	080	080	080	080	080

IF FLOWING, GIVE RATE: \_\_\_\_\_ GPM

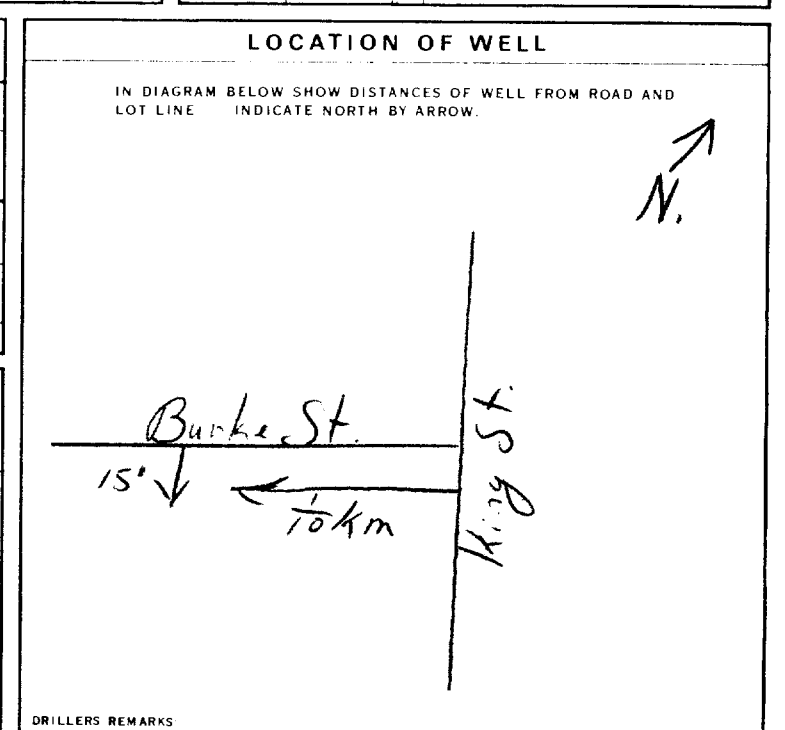
PUMP INTAKE SET AT: \_\_\_\_\_ FEET

WATER AT END OF TEST: \_\_\_\_\_ FEET

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 080 FEET

RECOMMENDED PUMPING RATE: 0006 GPM



**FINAL STATUS OF WELL** 1

**WATER USE** 01

**METHOD OF DRILLING** 5

**CONTRACTOR**

NAME OF WELL CONTRACTOR: Henry Main's Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: H. Main LICENCE NUMBER: \_\_\_\_\_

SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY 27 MO 05 YR 82

**OFFICE USE ONLY**

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 09 07 82

DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

REMARKS: \_\_\_\_\_



Ministry  
of the  
Environment  
Ontario

The Ontario Water Resources Act

# WATER WELL RECORD

31646

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

11

1518220

MUNICIP. 15701

CON. CDN

02

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: Ottawa St. LOT: 66

DATE COMPLETED: DAY 19 MO 04 YR 83

WELL NO.: 03899 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	3
grey	hardpan	stones		3	18
grey	limestone			18	63

MOE  
VF-18

31 0003205 001821412 0063215

32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06	STEEL	188	0 to 22
06	STEEL		22 to 63

### SCREEN

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

### 61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
0 to 22	Cement grouted

### 71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0006 GPM	01:06 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
006 FEET	030 FEET	15 MINUTES: 030, 30 MINUTES: 030, 45 MINUTES: 030, 60 MINUTES: 030

### LOCATION OF WELL

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

DRILLERS REMARKS:

### FINAL STATUS OF WELL

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

### WATER USE

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

### METHOD OF DRILLING

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

### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644  
ADDRESS: Box 326, Richmond Ont  
NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER:  
SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 19 MO 4 YR 83

### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 06 05 83  
DATE OF INSPECTION: INSPECTOR:  
REMARKS:



Ministry of the Environment  
Ontario

The Ontario Water Resources Act

# WATER WELL RECORD

31648

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

11

1518579

MUNICIPALITY: 15701 CON: C.O.N. LOT: 024

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC: Ottawa St. LOT: 024

OWNER (SURNAME FIRST): D.C. Construction ADDRESS: Richmond Ont. DATE COMPLETED: DAY 21 MO 09 YR. 83

ZONE: 18 EASTING: 435199 NORTHING: 5003799 RC: 4 ELEVATION: 031.0 RC: 4 P.SIN CODE: 26

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	22
grey	limestone			22	205
white	sandstone			205	225

31 0022205 0205215 0225118

32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0222	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
96	1 <input checked="" type="checkbox"/> STEEL	188	0-24
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		24-225

### SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: 41-44 FEET

### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD: 1  PUMP 2  BAILER

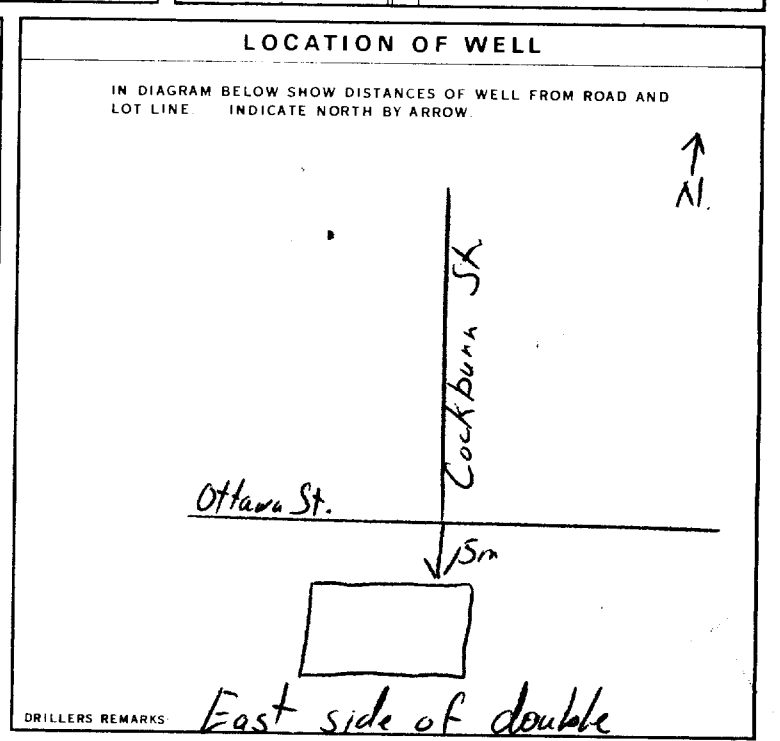
PUMPING RATE: 0030 GPM DURATION OF PUMPING: 01:00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
010	060	15 MINUTES: 060 30 MINUTES: 060 45 MINUTES: 060 60 MINUTES: 060

IF FLOWING: GIVE RATE: \_\_\_\_\_ PUMP INTAKE SET AT: \_\_\_\_\_ WATER AT END OF TEST: \_\_\_\_\_

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP

RECOMMENDED PUMP SETTING: 060 RECOMMENDED PUMPING RATE: 0010 GPM



### FINAL STATUS OF WELL

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

### WATER USE

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

### METHOD OF DRILLING

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

### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644  
ADDRESS: 326, Richmond Ont.  
NAME OF DRILLER OR OPERATOR: Henry Mains LICENCE NUMBER: \_\_\_\_\_  
SIGNATURE OF CONTRACTOR: \_\_\_\_\_ SUBMISSION DATE: DAY 22 MO 9 YR. 83

### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 13 10 83  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_



# The Ontario Water Resources Commission Act WATER WELL RECORD

3180A

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK  CORRECT BOX IF APPLICABLE

COUNTY OR DISTRICT: Carleton Place TOWNSHIP: Hambly CON., BLOCK, TRACT, SURVEY, ETC.: Con V LOT: 014

OW: [REDACTED] ADDRESS: RR# 3, Carp DATE COMPLETED: 07 Dec 71

U.T.M. ZONE: 21 EASTING: 1818280 NORTHING: 50117730 RC: 4 ELEVATION: 6385 RC: 4 BASIN CODE: 25

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	89
grey	hardpan			89	104
grey	limestone			104	128

31 0089205 0104214 0128215

32

### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0128	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
05	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0127
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		0128
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

### SCREEN

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

MATERIAL AND TYPE: \_\_\_\_\_ DEPTH TO TOP OF SCREEN: \_\_\_\_\_

### 61 PLUGGING & SEALING RECORD

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

### 71 PUMPING TEST

PUMPING TEST METHOD: 1  PUMP 2  BAILEY

PUMPING RATE: 0015 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21 FEET	22-24 FEET	15 MINUTES 26-28 FEET	30 MINUTES 29-31 FEET	45 MINUTES 32-34 FEET	60 MINUTES 35-37 FEET
009	045	030	039	045	045

IF FLOWING, GIVE RATE: \_\_\_\_\_ GPM. PUMP INTAKE SET AT: \_\_\_\_\_ FEET. WATER AT END OF TEST: \_\_\_\_\_ FEET.

RECOMMENDED PUMP TYPE:  SHALLOW  DEEP. RECOMMENDED PUMP SETTING: 050 FEET. RECOMMENDED PUMPING RATE: 0010 GPM.

50-53 000.4 GPM./FT. SPECIFIC CAPACITY

### LOCATION OF WELL

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

DRILLERS REMARKS:

### FINAL STATUS OF WELL

54 1  WATER SUPPLY 5  ABANDONED, INSUFFICIENT SUPPLY  
2  OBSERVATION WELL 6  ABANDONED, POOR QUALITY  
3  TEST HOLE 7  UNFINISHED  
4  RECHARGE WELL

### WATER USE

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

### METHOD OF DRILLING

57 1  CABLE TOOL 6  BORING  
2  ROTARY (CONVENTIONAL) 7  DIAMOND  
3  ROTARY (REVERSE) 8  JETTING  
4  ROTARY (AIR) 9  DRIVING  
5  AIR PERCUSSION

### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644  
ADDRESS: Box 326 Richmond Ont.  
NAME OF DRILLER OR BORER: Jim Purack LICENCE NUMBER: \_\_\_\_\_  
SIGNATURE OF CONTRACTOR: Henry Mains SUBMISSION DATE: 7 Dec 71

### OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 120172  
DATE OF INSPECTION: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
P, L  
WI

# WATER WELL RECORD

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

(11)

1518580

MUNICIP. 15701

CON. CON

02

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CDN. BLOCK, TRACT, SURVEY ETC: Ottawa St. LDT: 024  
OWNER (SURNAME FIRST): D.C. Construction ADDRESS: Richmond Ont. DATE COMPLETED: DAY 21 MO 09 YR 83

ZONE: 18 EASTING: 435199 NORTHING: 5003799 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

### LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	23
grey	limestone			23	160

31 0023205 0160215  
32

#### 41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0/55	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

#### 51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10 1/2	STEEL	1/8	0	25
6	GALVANIZED		25	160

#### 61 PLUGGING & SEALING RECORD

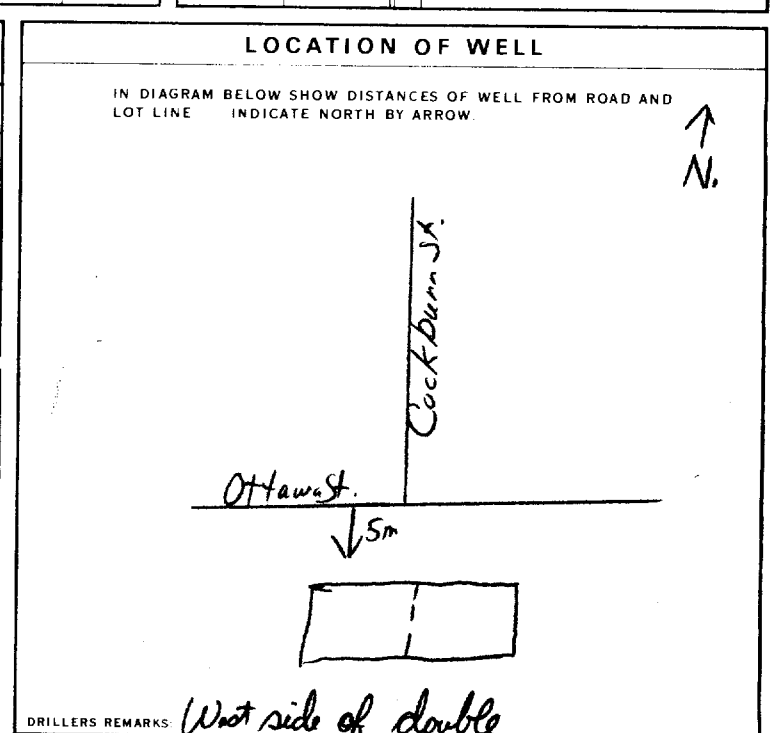
DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13		
18-21		
25-28		

#### 71 PUMPING TEST

PUMPING TEST METHOD: 1  PUMP 2  GRAVEL  
PUMPING RATE: 000 GPM  
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21 FEET	22-24 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
0/0	080	080	080	080	080

IF FLOWING, GIVE RATE: 38-41 GPM  
PUMP INTAKE SET AT: 080 FEET  
WATER AT END OF TEST: 42 FEET  
RECOMMENDED PUMP TYPE:  SHALLOW  DEEP  
RECOMMENDED PUMP SETTING: 080 FEET  
RECOMMENDED PUMPING RATE: 0006 GPM



#### FINAL STATUS OF WELL

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

#### WATER USE

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

#### METHOD OF DRILLING

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

#### CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644  
ADDRESS: Rd 326, Richmond Ont.  
NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER:  
SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 22 MO 9 YR 83

#### OFFICE USE ONLY

DATA SOURCE: 1 58 CONTRACTOR: 3644 59-62 DATE RECEIVED: 13 10 88 83-88 80  
DATE OF INSPECTION: INSPECTOR:  
REMARKS:





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11

1531665

Municipality 15003 Con. CON 03

County or District: Ottawa Carleton; Township/Borough/City/Town/Village: Goulbourn; Con block tract survey, etc.: 3; Lot: 25; Address: 3326 Limebank Rd; Date completed: 15 day 12 month 00 year; Gloucester, Ontario K1G 2N3

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions). Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To). Rows include Clay, Limestone, Packed, Medium Hard.

31 32

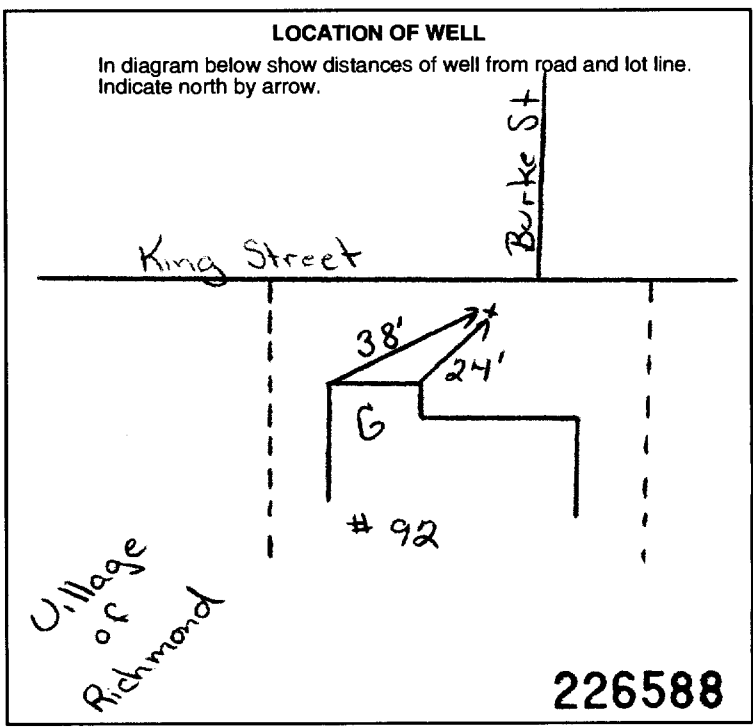
41 WATER RECORD. Table with columns: Water found at - feet, Kind of water. Includes checkboxes for Fresh, Salty, Sulphur, Minerals, Gas.

51 CASING & OPEN HOLE RECORD. Table with columns: Inside diam inches, Material, Well thickness inches, Depth - feet (From, To). Includes entries for 6 1/4 inch steel casing and 6 inch open hole.

54 SCREEN. Table with columns: Sizes of opening (Slot No.), Diameter inches, Length feet, Material and type, Depth at top of screen feet.

61 PLUGGING & SEALING RECORD. Table with columns: Annular space, Abandonment, Depth set at - feet (From, To), Material and type (Cement grout, bentonite, etc.). Includes entry for Grouted - Cement (3).

71 PUMPING TEST. Table with columns: Pumping test method, Pumping rate (15 GPM), Duration of pumping (1 Hours), Static level (10 feet), Water level end of pumping (35 feet), Water levels during pumping (70, 50, 35, 35 feet), Pump intake set at (50 feet), Recommended pump type (Deep), Recommended pump setting (50 feet), Recommended pump rate (5 GPM).



FINAL STATUS OF WELL, WATER USE, METHOD OF CONSTRUCTION. Includes checkboxes for Water supply, Abandoned, Commercial, Domestic, Municipal, Cable tool, Air percussion, etc.

Name of Well Contractor: Capital Water Supply Ltd.; Well Contractor's Licence No.: 1558; Address: Box 490 Stittsville, Ontario K2S 1A6; Name of Well Technician: S. Miller; Well Technician's Licence No.: T0097; Submission date: day 20 mo 12 yr 00.

MINISTRY USE ONLY. Data source: 1558; Date received: JAN 29 2001; Date of inspection; Inspector; Remarks: CSS.ES1.

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

11

1531778

Municipality 15003 Con. CON 03

County or District: Ottawa Carleton; Township/Borough/City/Town/Village: Goulbourn; Con block tract survey, etc.: 3; Lot: 26; Address: Box # 35, KOA 270, 6180 Ottawa, Street, Richmond ON; Date completed: 16 day, 03 month, 01 year

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions). Table with columns: General colour, Most common material, Other materials, General description, Depth - feet (From, To). Rows: Brown Hardpan Boulders (0-11), Grey Limestone hard (11-75)

31, 32

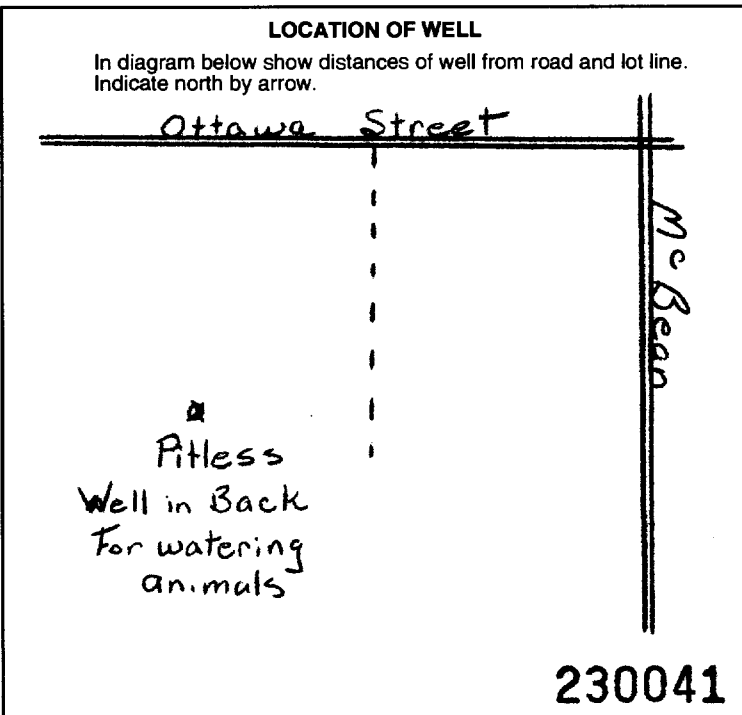
41 WATER RECORD. Table with columns: Water found at - feet, Kind of water (Fresh, Salty, Sulphur, Minerals, Gas). Rows: 69 (10-13), 15-18, 20-23, 25-28, 30-33

51 CASING & OPEN HOLE RECORD. Table with columns: Inside diam inches, Material, Well thickness inches, Depth - feet (From, To). Rows: 6 1/4" (0-21), 6" (21-75), 24-25

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

61 PLUGGING & SEALING RECORD. Table with columns: Depth set at - feet, Material and type (Cement grout, bentonite, etc.). Row: 21 (10-13), 0 (14-17), Grouted (3) (18-21)

71 PUMPING TEST. Pumping test method (Pump checked), Pumping rate (8 GPM), Duration of pumping (1 Hour), Static level (9'6" feet), Water level end of pumping (25 feet), Water levels during pumping (73, 30, 25, 25 feet)



FINAL STATUS OF WELL, WATER USE, METHOD OF CONSTRUCTION. Final status: Water supply checked. Water use: Stock checked. Method of construction: Air percussion checked.

Name of Well Contractor: Capital Water Supply Ltd.; Well Contractor's Licence No.: 1558; Name of Well Technician: S. Miller; Well Technician's Licence No.: T0097; Submission date: 16 mo 3 yr 01

MINISTRY USE ONLY. Data source: 1558; Date received: APR 26 2001; Date of inspection; Inspector; Remarks: CSS.ES1

Print only in spaces provided.  
Mark correct box with a checkmark, where applicable.

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1533079

Municipality  
15003

Con.  
CON

03

County or District <b>Ottawa Carleton</b>		Township/Borough/City/Town/Village <b>Goulbourn</b>		Con block tract survey, etc. <b>3</b>	Lot <b>23</b>
Owner's surname <b>Maple Mountain Homes</b>	First Name	Address <b>P.O. Box 730 Richmond, Ontario KOA 2Z0</b>		Date completed <b>21 day 8 month 02 year</b>	

21

Zone Easting Northing RC Elevation RC Basin Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	Clay	Stones		0	12
Gray	Clay	Stones		12	26
Gray	Limestone			26	180
Gray & White	Sandstone			180	240
Note Casing was left 1 foot above ground level at time of drilling					

31

32

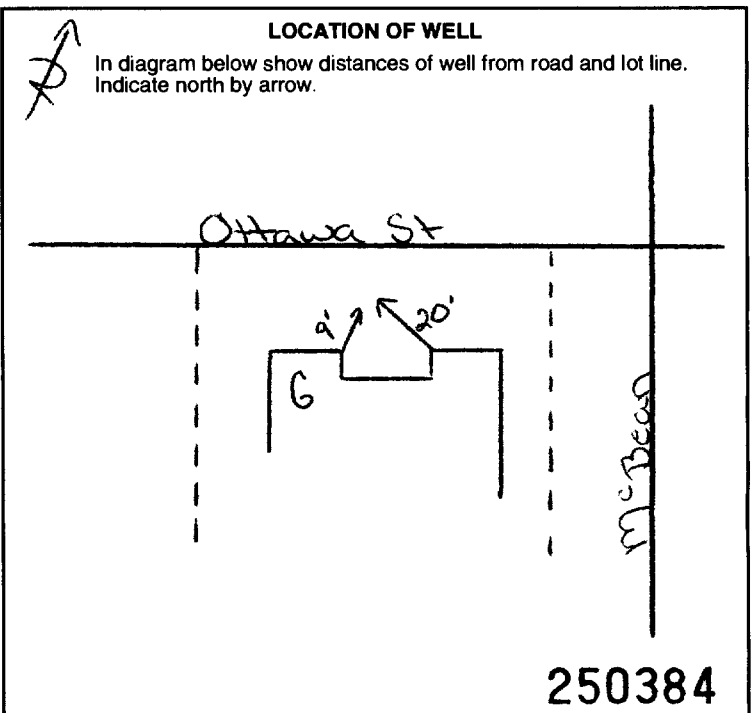
41 WATER RECORD			
Water found at - feet	Kind of water		
10-13 <b>236</b>	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	14
15-18 <b>not tested</b>	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	19
20-23	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	24
25-28	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	29
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas	34

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	29
5 7/8	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		29	240

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

61 PLUGGING & SEALING RECORD			
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17	Grouted - Cement (4)	
18-21	22-25		
26-29	30-33		

71	Pumping test method 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailar	Pumping rate <b>20</b> GPM	Duration of pumping <b>1</b> Hours <b>17</b> Mins
PUMPING TEST	Static level 19-21 <b>14' 3"</b>	Water level end of pumping 22-24 <b>75</b> feet	Water levels during 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery
		15 minutes 26-28 <b>225</b> feet	30 minutes 29-31 <b>150</b> feet
		45 minutes 32-34 <b>100</b> feet	60 minutes 35-37 <b>75</b> feet
	If flowing give rate 38-41 GPM	Pump intake set at feet <b>100</b>	Water at end of test 42 <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy
	Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting 43-45 <b>100</b> feet	Recommended pump rate 46-49 <b>5</b> GPM



FINAL STATUS OF WELL		
1 <input type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation wall	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacament wall
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge wall	8 <input type="checkbox"/> Dewatering	
WATER USE		
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input checked="" type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	
METHOD OF CONSTRUCTION		
1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jatting	

Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licanca No. <b>1558</b>
Address <b>P.O. Box 490 Stittsville, Ontario K2S 1A6</b>	
Name of Well Technician <b>S. Miller</b>	Well Technician's Licanca No. <b>T0097</b>
Signature of Technician/Contractor <i>[Signature]</i>	Submission data day <b>23</b> mo <b>8</b> yr <b>02</b>

MINISTRY USE ONLY	Data source <b>1558</b>	Contractor <b>1558</b>	Date received <b>SEP 16 2002</b>
	Date of inspection		Inspector
	Remarks <b>CSS.ES2</b>		

Print only in spaces provided.  
Mark correct box with a checkmark, where applicable.

11

1533080

Municipality **15003** Con. **CON** 02

County or District <b>Ottawa Carleton</b>		Township/Borough/City/Town/Village <b>Goulbourn</b>		Con block tract survey, etc. <b>2</b>	Lot <b>222</b>
Owner's surname <b>CSN Electric Ltd.</b>	First Name	Address <b>5640 Manotick Main St. Manotick, Ontario</b>			Date completed <b>20</b> day <b>08</b> month <b>2</b> year

21

Zone Easting Northing RC Elevation **RQM** Code ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
<b>brown cl</b>	<b>clay</b>	<b>stones</b>	<b>packed</b>	0	8
<b>grey</b>	<b>limestone</b>		<b>medium</b>	8	125
<b>Note: Casing was left 1 foot above ground level at time of drilling.</b>					

31

32

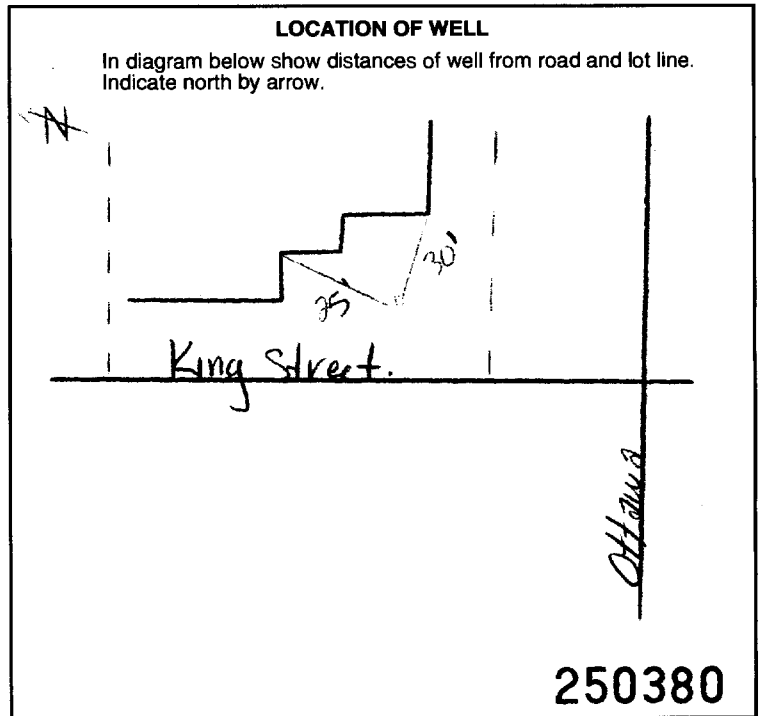
WATER RECORD			
Water found at - feet	Kind of water		
10-13 <b>111</b>	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
15-18 <b>not tested</b>	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
20-23	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
25-28	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	34

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 <b>6 1/4</b>	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	<b>.188</b>	0	13-16 <b>21'6</b>
17-18 <b>5 7/8</b>	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		21'6	20-23 <b>125</b>
24-25	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			27-30

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

PLUGGING & SEALING RECORD			
Annular space		Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
21'8	0	<b>grouted cement (3)</b>	
18-21	22-25		
26-29	30-33		

PUMPING TEST	Pumping test method <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer	Pumping rate <b>12</b> GPM	Duration of pumping <b>1</b> Hours <b>17</b> Mins			
	Static level <b>12'5</b> feet	Water level end of pumping <b>50</b> feet	Water levels during Pumping			
			15 minutes <b>120</b> feet	30 minutes <b>180</b> feet	45 minutes <b>75</b> feet	60 minutes <b>50</b> feet
	If flowing give rate	Pump intake set et	Water at end of test			
	Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting <b>95</b> feet	Recommended pump rate <b>5</b> GPM			



<b>FINAL STATUS OF WELL</b>		
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	
<b>WATER USE</b>		
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	
<b>METHOD OF CONSTRUCTION</b>		
1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1558</b>
Address <b>Box 490 Stittsville, Ontario K2S 1A6</b>	
Name of Well Technician <b>S. Miller</b>	Well Technician's Licence No. <b>T0097</b>
Signature of Technician/Contractor	Submission date day <b>22</b> mo <b>08</b> yr <b>02</b>

MINISTRY USE ONLY	Data source <b>1558</b>	Date received <b>SEP 16 2002</b>
	Date of inspection	Inspector
	Remarks <b>CSS.ES2</b>	

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- 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 1/10<sup>th</sup> of a metre.
- Please print clearly in blue or black ink only.

<b>Well Owner's Information and Location of Well Information</b>		<b>Ministry Use Only</b>	
MUN	CON	LOT	
First Name <b>Hank DeKemp &amp; Vanson Construction</b>	Last Name	Mailing Address (Street Number/Name, RR, Lot, Concession) <b>2069 Woodroffe Ave</b>	
County/District/Municipality <b>Ottawa Carleton</b>	Township/City/Town/Village <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>N2C 3H1</b>
Address of Well Location (County/District/Municipality) <b>Ottawa Carleton</b>		Township <b>Goulbourn</b>	Telephone Number (include area code) <b>613 226 6729</b>
RR#/Street Number/Name <b>Test Well 3, King Street</b>	City/Town/Village <b>Richmond</b>	Lot <b>24/25</b>	Concession <b>3</b>
GPS Reading	NAD Zone Easting Northing <b>8 3 18 435457 5004602</b>	Unit Make/Model <b>Garmin</b>	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify

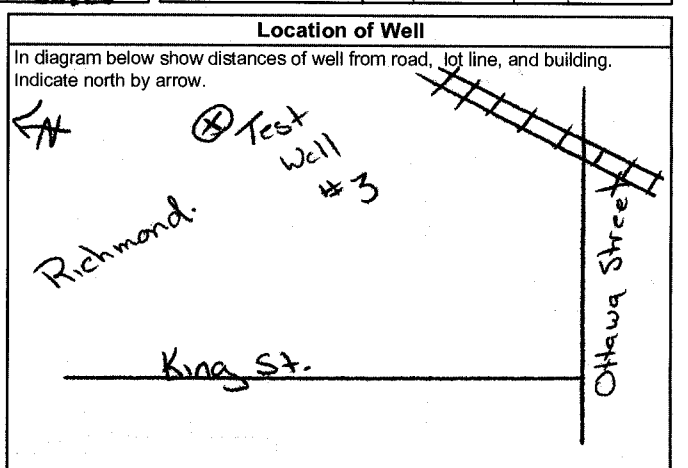
Log of Overburden and Bedrock Materials (see instructions)		General Description	Depth From	Metres To
General Colour	Most common material	Other Materials		
<b>brown</b>	<b>clay</b>		<b>0</b>	<b>2.43</b>
<b>brown</b>	<b>hardpan</b>	<b>layered</b>	<b>2.43</b>	<b>4.26</b>
<b>grey</b>	<b>limestone</b>	<b>layered</b>	<b>4.26</b>	<b>18.59</b>
<b>grey</b>	<b>limestone</b>	<b>hard</b>	<b>18.59</b>	<b>22.25</b>

<b>Hole Diameter</b>			<b>Construction Record</b>				<b>Test of Well Yield</b>					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
<b>0</b>	<b>6.40</b>	<b>22.75</b>						Pump intake set at - (metres)				
<b>6.40</b>	<b>22.24</b>	<b>15.39</b>	<b>15.86</b>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	<b>0.48</b>	<b>+ .45</b>	<b>6.40</b>	Pumping rate - (litres/min)	<b>1</b>		<b>1</b>	
<b>Water Record</b>			<b>Casing</b>				<b>Screen</b>					
Water found at Metres	Kind of Water		Outside diam				Slot No.					
<b>8.53</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					
<b>12.49</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					
<b>16.15-18.59</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					
<b>NOT TESTED</b>	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify			<b>No Casing or Screen</b>				<b>No Casing or Screen</b>					
Chlorinated	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Open hole									

<b>Plugging and Sealing Record</b>			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		
<b>6.40</b>	<b>grouted: bentonite slurry</b>	<b>.198m3</b>		

<b>Method of Construction</b>			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	
<b>Water Use</b>			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
<b>Final Status of Well</b>			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

<b>Well Contractor/Technician Information</b>	
Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1558</b>
Business Address (street name, number, city etc.) <b>Box 490 Stittsville, Ontario K2S 1A6</b>	
Name of Well Technician (last name, first name) <b>Miller, Stephen</b>	Well Technician's Licence No. <b>T0097</b>
Signature of Technician/Contractor <i>[Signature]</i>	Date Submitted <b>2005 3 22</b>



Audit No. <b>Z 13768</b>	Date Well Completed YYYY MM DD <b>2005 3 16</b>
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered YYYY MM DD <b>2005 3 22</b>

<b>Ministry Use Only</b>	
Data Source	Contractor <b>1558</b>
Date Received YYYY MM DD <b>MAY 18 2005</b>	Date of Inspection YYYY MM DD
Remarks	Well Record Number

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- All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.
- Please print clearly in blue or black ink only.

**Well Owner's Information and Location of Well Information**

Ministry Use Only											
MUN										CON	LOT

**Uttawa Carleton** RR#/Street Number/Name  
**Test Well 1, King Street**

**Goulbourn** City/Town/Village  
**Richmond**

Site/Compartment/Block/Tract etc. **24/25 3**

GPS Reading NAD Zone Easting Northing  
**8 3 18 435246 5004428**

Unit Make/Model **Garmin** Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify

**Log of Overburden and Bedrock Materials (see instructions)**

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
<b>brown</b>	<b>clay</b>	<b>stones</b>	<b>packed</b>	<b>0</b>	<b>3.65</b>
<b>grey</b>	<b>limestone</b>		<b>medium hard</b>	<b>3.65</b>	<b>45.11</b>

**Hole Diameter**

Depth From	Metres To	Diameter Centimetres
<b>0</b>	<b>6.40</b>	<b>22.75</b>
<b>6.40</b>	<b>45.18</b>	<b>15.39</b>

**Water Record**

Water found at **43.58** Metres Kind of Water  Fresh  Sulphur  Gas  Salty  Minerals  Other:

**NOT TESTED**  Fresh  Sulphur  Gas  Salty  Minerals  Other:

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

Chlorinated  Yes  No

**Construction Record**

Inside diam centimetres	Material	Wall thickness centimetres	Depth Metres	
			From	To
<b>15.86</b>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	<b>0.48</b>	<b>+4.5</b>	<b>6.40</b>
<b>Casing</b>				
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized			
<b>Screen</b>				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
<b>No Casing or Screen</b>				
<b>15.39</b>	<input checked="" type="checkbox"/> Open hole		<b>6.40</b>	<b>45.18</b>

**Test of Well Yield**

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
<b>submersible</b>				
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping hrs + min	2		2	
Final water level end of pumping metres	3		3	
Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth metres	5		5	
Recommended pump rate (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

**Plugging and Sealing Record**  Annular space  Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
<b>6.40</b>	<b>0</b>	<b>grouted: bentonite slurry</b>	<b>.154m3</b>

**Method of Construction**

Cable Tool  Rotary (air)  Diamond  Digging  Rotary (conventional)  Air percussion  Jetting  Other  Rotary (reverse)  Boring  Driving

**Water Use**

Domestic  Industrial  Public Supply  Other  Stock  Commercial  Not used  Irrigation  Municipal  Cooling & air conditioning

**Final Status of Well**

Water Supply  Recharge well  Unfinished  Abandoned, (Other)  Observation well  Abandoned, insufficient supply  Dewatering  Test Hole  Abandoned, poor quality  Replacement well

**Well Contractor/Technician Information**

Name of Well Contractor **Capital Water Supply Ltd.** Well Contractor's Licence No. **1558**

Business Address (street name, number, city, etc.) **Box 490 Strittsville, Ontario K2S 1A6**

Name of Well Technician (last name, first name) **Miller, Stephen** Well Technician's Licence No. **T0097**

Signature of Technician/Contractor **X [Signature]** Date Submitted **2005 3 22**

**Location of Well**

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

Audit No. **Z 13770** Date Well Completed **2005 3 17**

Was the well owner's information package delivered?  Yes  No **2005 3 22**

**Ministry Use Only**

Data Source Contractor **1558**

Date Received **MAY 18 2005** Date of Inspection **2005 3 22**

Remarks Well Record Number

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- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355.
- **All metre measurements shall be reported to 1/10<sup>th</sup> of a metre.**
- Please print clearly in blue or black ink only.

**Ministry Use Only**

MUN	CON	LOT	CON
-----	-----	-----	-----

Address of Well Location (County/District/Municipality) **Ottawa - Carleton** Township **Soulbourn** Lot **Plan 4R-18509** Concession

RR#/Street Number/Name **\* 67 Burke Street** City/Town/Village **Richmond** Site/Compartment/Block/Tract etc **Plan D00427 Part 2**

GPS Reading NAD **83** Zone **18** Easting **434923** Northing **5004238** Unit/Make/Model **Vogel** Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify

**Log of Overburden and Bedrock Materials (see instructions)**

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
	<b>Clay</b>			<b>0</b>	<b>4.57</b>
	<b>Grey limestone</b>			<b>4.57</b>	<b>24.38</b>

**Hole Diameter**

Depth Metres	Diameter Centimetres
From <b>0</b> To <b>24.38</b>	<b>14.91</b>

**Water Record**

Water found at **17.08** m Kind of Water  Fresh  Sulphur  Gas  Salty  Minerals  Other: **NO**

After test of well yield, water was **Cloudy NOT**  Clear and sediment free  Other, specify **TESTED**

Chlorinated  Yes  No

**Construction Record**

Inside diam centimetres	Material	Wall thickness centimetres	Depth From Metres	Depth To Metres
<b>15.88</b>	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	<b>.48</b>	<b>0</b>	<b>6.71</b>

**Screen**

Outside diam	Slot No.
<b>6.10</b>	<b>24.38</b>

No casing or screen  Open hole

**Test of Well Yield**

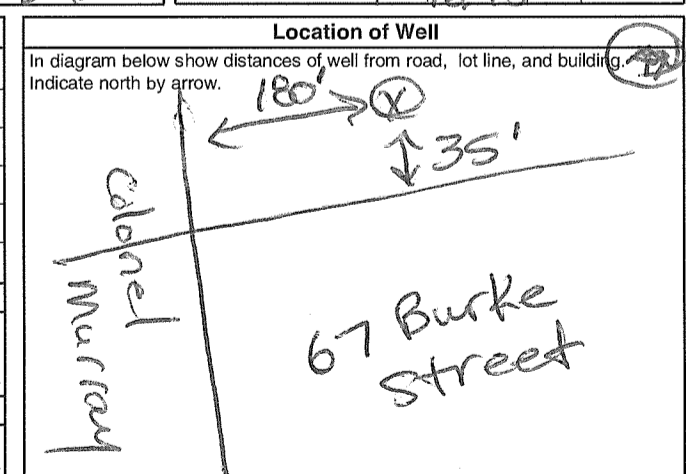
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
<b>Sub Pump</b>				
Pump intake set at (metres) <b>3.33</b>	Static Level	<b>1.70</b>		<b>16.48</b>
Pumping rate - (litres/min) <b>91</b>	1	<b>4.82</b>	1	<b>11.80</b>
Duration of pumping <b>hrs + 0 min</b>	2	<b>6.72</b>	2	<b>8.90</b>
Final water level end of pumping <b>16.48</b> metres	3	<b>8.16</b>	3	<b>6.32</b>
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	<b>9.40</b>	4	<b>4.53</b>
Recommended pump depth <b>21.33</b> metres	5	<b>10.24</b>	5	<b>3.40</b>
Recommended pump rate (litres/min) <b>91</b>	10	<b>12.57</b>	10	<b>1.70</b>
If flowing give rate - (litres/min)	15	<b>13.07</b>	15	
	20	<b>13.56</b>	20	
	25	<b>14.45</b>	25	
If pumping discontinued, give reason.	30	<b>15.35</b>	30	
	40	<b>15.76</b>	40	
	50	<b>16.12</b>	50	
	60	<b>16.48</b>	60	

**Plugging and Sealing Record**  Annular space  Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
<b>6.10</b>	<b>3.05</b>	<b>Neat Cement Slurry</b>	<b>.1816</b>
<b>3.05</b>	<b>0</b>	<b>Bentonite slurry</b>	<b>.245</b>

**Method of Construction**

Cable Tool  Rotary (air)  Diamond  Digging  Rotary (conventional)  Air percussion  Jetting  Other  Rotary (reverse)  Boring  Driving



**Water Use**

Domestic  Industrial  Public Supply  Other  Stock  Commercial  Not used  Irrigation  Municipal  Cooling & air conditioning

**Final Status of Well**

Water Supply  Recharge well  Unfinished  Abandoned, (Other)  Observation well  Abandoned, insufficient supply  Dewatering  Test Hole  Abandoned, poor quality  Replacement well

Audit No. **Z 55591** Date Well Completed **2006 12 19**

Was the well owner's information package delivered?  Yes  No Date Delivered **2006 12 20**

**Well Contractor/Technician Information**

Name of Well Contractor **HIR ROCK DRILLING LTD 119** Well Contractor's Licence No. **119**

Business Address (street name, number, city etc.) **RR#1 RICHMOND ONT K0A2Z0**

Name of Well Technician (last name, first name) **HOSAN DAN** Well Technician's Licence No. **T3058**

Signature of Technician/Contractor **X [Signature]** Date Submitted **2007 01 22**

**Ministry Use Only**

Data Source Contractor **1119**

Date Received **FEB 12 2007** DD Date of Inspection **YYYY MM DD**

Remarks Well Record Number



A043482

Address of Well Location (Street Number/Name, RR) #108 King Street Township: Goulbourn Lot: Concession: \_\_\_\_\_  
 County/District/Municipality: Ottawa-Carleton City/Town/Village: Richmond Province: Ontario Postal Code: \_\_\_\_\_  
 UTM Coordinates: NAD 83 Zone: 18 Easting: 435268 Northing: 5004249 GPS Unit Make: Magellan Model: \_\_\_\_\_ Mode of Operation:  Undifferentiated  Averaged  
 Differentiated, specify \_\_\_\_\_

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
	Sandy Clay Gravel			0	6.10
	Grey Limestone			6.10	24.99

\* Plan AR-10642 Part 1-2-3-8-9-12 \*

Annular Space/Abandonment Sealing Record

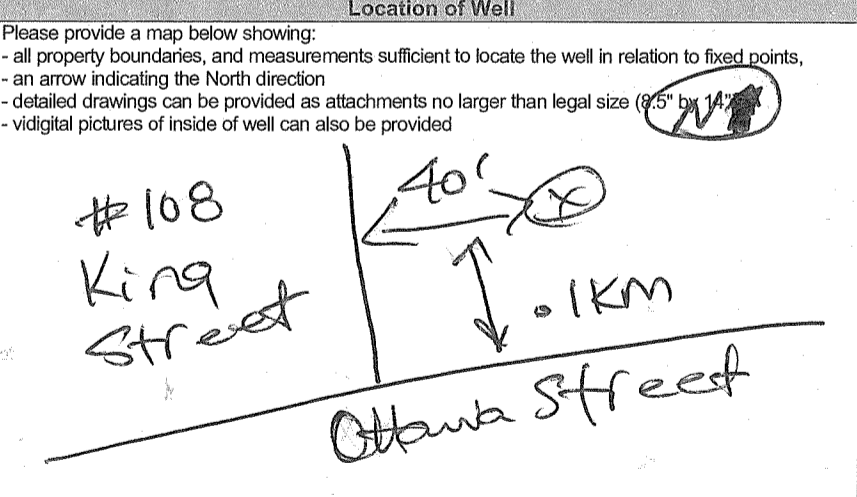
Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
7.77	0	Neat Cement Slurry	0.1816

Method of Construction:  Cable Tool  Rotary (Conventional)  Rotary (Reverse)  Rotary (Air)  Air percussion  Other, specify \_\_\_\_\_  
 Diamond  Jetting  Driving  Digging  Boring  
 Water Use:  Public  Domestic  Livestock  Irrigation  Industrial  Commercial  Municipal  Test Hole  Cooling & Air Conditioning  Not used  Dewatering  Monitoring  
 Status of Well:  Water Supply  Replacement Well  Test Hole  Recharge Well  Dewatering Well  Abandoned, Insufficient Supply  Abandoned, Poor Water Quality  Abandoned, other, specify \_\_\_\_\_  Observation and/or Monitoring Hole  Alteration (Construction)  Other, specify \_\_\_\_\_

Results of Well Yield Testing

Time (Min)	Water Level (Metres)	Draw Down		Recovery	
		Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
Static Level	4.87	Static Level	5.84		
1	5.50	1	4.94		
2	5.63	2	4.87		
3	5.66	3			
4	5.69	4			
5	5.71	5			
10	5.76	10			
15	5.79	15			
20	5.82	20			
25	5.82	25			
30	5.82	30			
40	5.83	40			
50	5.83	50			
60	5.84	60			

Check box if after test of well yield, water was:  Clear and sand free  Cannot develop to sand-free state  
 If pumping discontinued, give reason: \_\_\_\_\_  
 Pumping test method: SUBPUMP  
 Pump intake set at (Metres): 18.27  
 Pumping rate (Litres/min): 56.75  
 Duration of pumping: 1 hrs + 0 min  
 Final water level end of pumping (Metres): 5.84  
 Recommended pump type:  Shallow  Deep  
 Recommended pump depth: 18.27 Metres  
 Recommended pumping rate (Litres/min): 56.75  
 If flowing give rate (Litres/min): \_\_\_\_\_



Water Details

Water found at Depth (Metres)	Kind of Water
15.54	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
19.20	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
22.86	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Date Well Completed (yyyy/mm/dd): 2007-08-20 Was the well owner's information package delivered?  Yes  No Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): 2007-08-21

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD Well Contractor's Licence No.: 1119  
 Business Address (Street No./Name, number, RR): Rte 1 Municipality: Richmond  
 Province: ONT Postal Code: K0A2Z0 Business E-mail Address: \_\_\_\_\_  
 Bus. Telephone No. (inc. area code): 613 838 2170 Name of Well Technician (Last Name, First Name): PURCELL SHANNON  
 Well Technician's Licence No.: T2102 Signature of Technician: \_\_\_\_\_ Date Submitted (yyyy/mm/dd): 2007-10-10

Casing Used:  Galvanized  Steel  Fibreglass  Plastic  Concrete  
 Screen Used:  Galvanized  Steel  Fibreglass  Plastic  Concrete  
 Casing and Well Details: Diameter of the Hole (Centimetres): 14.91  
 Depth of the Hole (Metres): 24.99  
 Wall Thickness (Metres): 4.8cm  
 Inside Diameter of the Casing (Metres): 1.538  
 Depth of the Casing (Metres): 8.38

Ministry Use Only

Audit No.: z60179 Well Contractor No.: \_\_\_\_\_  
 Date Received (yyyy/mm/dd): OCT 15 2007 Date of Inspection (yyyy/mm/dd): \_\_\_\_\_  
 Remarks: \_\_\_\_\_



Well Owner's Information

604 OTTAWA STREET  
 County/District/Municipality: OTTAWA-CARLETON  
 City/Town/Village: RICHMOND  
 Province: Ontario  
 Postal Code: K0A 2R0  
 UTM Coordinates: NAD 83 Zone Easting: 18435297 Northing: 5004160  
 GPS Unit Make: MAGNUM  
 Mode of Operation:  Undifferentiated  Averaged  
 Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
GREY	CLAY			0.00	3.05
"	TILL	STONES		3.05	5.18
GREY	LIMESTONE			5.18	46.36

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0.00	6.00	Grout	0.14

Results of Well Yield Testing

Check box if after test of well yield, water was:	Draw Down		Recovery	
	Time (Min)	Water Level (Metres)	Time (Min)	Water Level (Metres)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Cannot develop to sand-free state	Static Level	2.77	Static Level	
If pumping discontinued, give reason: N/A.	1	4.10	1	17.78
Pumping test method: PLUMP.	2	4.91	2	16.98
Pump intake set at (Metres): 43m (140').	3	5.80	3	16.12
Pumping rate (Litres/min): 23 lpm (5 gpm).	4	6.91	4	15.29
Duration of pumping: 1 hrs + 0 min	5	7.72	5	14.67
Final water level end of pumping (Metres): 9.08.	10	9.61	10	12.32
Recommended pump type: <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	15	11.82	15	10.12
Recommended pump depth: 43 Metres (140')	20	13.98	20	8.37
Recommended pump rate (Litres/min): 23 lpm (5 gpm).	25	14.56	25	7.41
If flowing give rate (Litres/min): N/A.	30	15.44	30	6.48
	40	17.12	40	4.93
	50	18.28	50	3.77
	60	19.08	60	3.29

Method of Construction

Water Use

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

Status of Well

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

Location of Well

Please provide a map below showing  
 - all property boundaries, and measurements sufficient to locate the well in relation to fixed points  
 - an arrow indicating the North direction  
 - detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")  
 - digital pictures of inside of well can also be provided



Water Details

Water found at Depth	Kind of Water
12 Metres <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	
23 Metres <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	
36 Metres <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	

Casing Used

Screen Used

Casing and Well Details

Galvanized  Galvanized  
 Steel  Steel N/A.  
 Fibreglass  Fibreglass  
 Plastic  Plastic  
 Concrete  Concrete

Diameter of the Hole (Centimetres): 114.61 (5 3/4")  
 Depth of the Hole (Metres): 152'  
 Wall Thickness (Metres): 6.08"  
 Inside Diameter of the Casing (Metres): 64"  
 Depth of the Casing (Metres): 7.63m (25')

No Casing and Screen Used  
 Open Hole 6.55 - 46.36  
 Disinfected?  Yes  No

Ministry Use Only

Audit No. **z 77591**  
 Date Received (yyyy/mm/dd): **AUG 28 2008**  
 Date of Inspection (yyyy/mm/dd):  
 Well Contractor No.:  
 Remarks:

Date Well Completed (yyyy/mm/dd): 2008/06/13  
 Was the well owner's information package delivered?  Yes  No  
 Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): 2008/06/13

Well Contractor and Well Technician Information

Business Name of Well Contractor: STANTON DRILLING INC  
 Well Contractor's Licence No.: 4875  
 Business Address (Street No./Name, number, RR): BOX 219  
 Municipality: PARENTHAM  
 Province: ON Postal Code: K0A 2X0 Business E-mail Address: stanton-drilling@cyberus.ca  
 Bus. Telephone No. (inc. area code): (613) 645-6629 Name of Well Technician (Last Name, First Name): STANTON, PETER  
 Well Technician's Licence No.: 0086  
 Signature of Technician: [Signature]  
 Date Submitted (yyyy/mm/dd): 2008/08/25



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Rd, Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 3 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83 18</b>	Easting <b>435243</b>	Northing <b>5004413</b>	Municipal Plan and Sublot Number

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Clay	Boulders	Packed	0	6.70
Gray	Limestone		Medium	6.70	37.48

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 8.83 To: 0	Grouted Bentonite Slurry	.21m <sup>3</sup>	

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

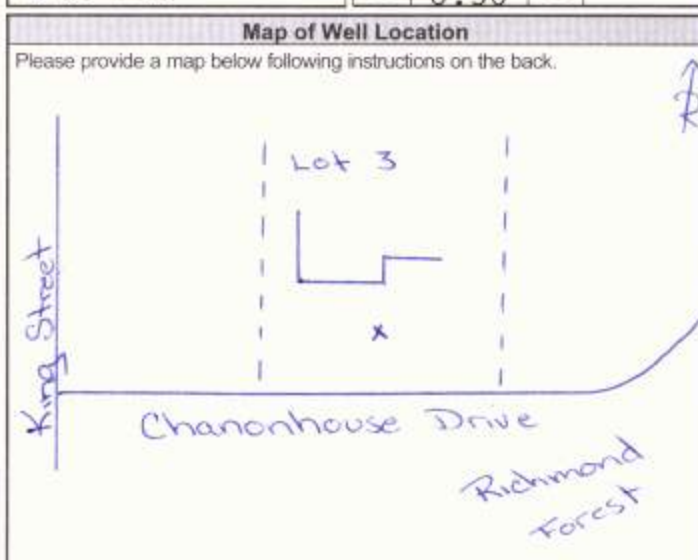
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+	8.83	

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

Water Details		Hole Diameter	
Water found at Depth: 28.0 (4 ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From: 0 To: 8.83	Diameter (cm/in): 15.86
Water found at Depth: 35.3 (5 ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From: 8.83 To: 37.48	Diameter (cm/in): 15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S 1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>		Date Submitted <b>20080822</b>

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft) <b>22.85</b> Pumping rate (l/min / GPM) <b>54.6</b> Duration of pumping <b>1</b> hrs + <b>0</b> min Final water level end of pumping (m/ft) <b>8.30</b> If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) <b>22.85</b> Recommended pump rate (l/min / GPM) <b>45.5</b> Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	4.40		
	1	5.80	1	6.28
	2	6.51	2	5.19
	3	6.99	3	4.74
	4	7.31	4	4.62
	5	7.53	5	4.59
10	7.95	10	4.53	
15	8.13	15	4.50	
20	8.20	20	4.48	
25	8.22	25	4.47	
30	8.24	30	4.46	
40	8.25	40	4.45	
50	8.27	50	4.44	
60	8.30	60		



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2 0 0 8 0 8 1 9</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84379</b> OCT 14 2008 Received
Date Work Completed <b>2 0 0 8 0 8 1 9</b>		



**Well Owner's Information**

First Name: **Talos Custom Homes** Last Name: \_\_\_\_\_ E-mail Address: \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name, RR): **5509 Canotek Rd. Unit 1** Municipality: **Ottawa** Province: **Ontario** Postal Code: **K1J 9S 8** Telephone No. (inc. area code): **613 747 3993**

**Part A Construction and/or Major Alteration of a Well**

Address of Well Location (Street Number/Name, RR): **Lot 33 Richmond Forest** Township: **Goulbourn** Lot: **25** Concession: **3**

County/District/Municipality: **Ottawa Carleton** City/Town/Village: **Richmond** Province: **Ontario** Postal Code: \_\_\_\_\_

UTM Coordinates: Zone: **18** Easting: **435430** Northing: **5004623** GPS Unit Make: **Garmin** Model: \_\_\_\_\_ Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

**Overburden and Bedrock Materials** (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
Brown	Clay	Stone	Packed	0	6.09
Gray	Limestone		Broken	6.09	8.22
Gray	Limestone		Medium	8.22	29.86

**Annular Space/Abandonment Sealing Record**

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
9.14	0	Grouted Bentonite Slurry	2.52m <sup>3</sup>

**Method of Construction**

Cable Tool  Diamond  Public  Commercial  Not used

Rotary (Conventional)  Jetting  Domestic  Municipal  Dewatering

Rotary (Reverse)  Driving  Livestock  Test Hole  Monitoring

Rotary (Air)  Digging  Irrigation  Cooling & Air Conditioning

Air percussion  Boring  Industrial  Other, specify \_\_\_\_\_

Other, specify \_\_\_\_\_

**Water Use**

Dewatering Well  Observation and/or Monitoring Hole

Replacement Well  Abandoned, Insufficient Supply  Alteration (Construction)

Test Hole  Abandoned, Poor Water Quality  Other, specify \_\_\_\_\_

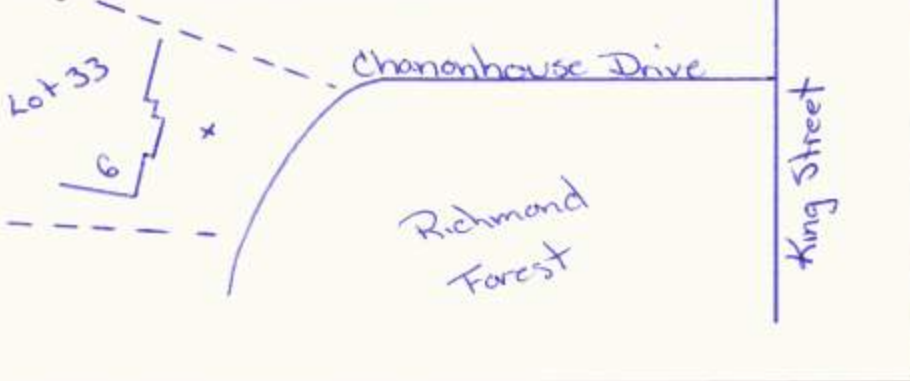
Recharge Well  Abandoned, other, specify \_\_\_\_\_

**Status of Well**

**Location of Well**

Please provide a map below showing:

- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- digital pictures of inside of well can also be provided



Date Well Completed (yyyy/mm/dd): **2008/7/22** Was the well owner's information package delivered?  Yes  No Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): **2008/7/23**

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **Capital Water Supply Ltd.** Well Contractor's Licence No.: **1 5 5 8**

Business Address (Street No./Name, number, RR): **Box 490** Municipality: **Stittsville**

Province: **Ontario** Postal Code: **K2S 1A6** Business E-mail Address: **office@capitalwater.ca**

Bus Telephone No. (inc. area code): **613 836 1766** Name of Well Technician (Last Name, First Name): **Miller, Stephen**

Well Technician's Licence No.: **0 0 9 7** Signature of Technician: \_\_\_\_\_ Date Submitted (yyyy/mm/dd): **2008/7/30**

**Results of Well Yield Testing**

Check box if after test of well yield, water was:

Clear and sand free  Cannot develop to sand-free state

If pumping discontinued, give reason: \_\_\_\_\_

Pumping test method: **Submersible**

Pump intake set at (Metres): **18.28**

Pumping rate (Litres/min): **54.6**

Duration of pumping: **1** hrs + \_\_\_\_\_ min

Final water level end of pumping (Metres): **6.09**

Recommended pump type:  Shallow  Deep

Recommended pump depth: **15.23** Metres

Recommended pump rate (Litres/min): **45.5**

If flowing give rate (Litres/min): \_\_\_\_\_

Time (Min)	Draw Down		Recovery	
	Water Level (Metres)	Time (Min)	Water Level (Metres)	Time (Min)
Static Level	<b>3.87</b>	Static Level		
1	5.13	1	4.42	
2	5.54	2	4.15	
3	5.71	3	4.09	
4	5.81	4	4.05	
5	5.86	5	4.02	
10	5.96	10	3.96	
15	6.01	15	3.94	
20	6.03	20	3.93	
25	6.05	25	3.92	
30	6.07	30	3.91	
40	6.08	40	3.90	
50	6.09	50	3.90	
60	6.09	60	3.89	

**Water Details**

Water found at Depth: **27.73** Metres  Gas  Fresh  Salty  Sulphur  Minerals **Not Tested**

Water found at Depth: \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals

Water found at Depth: \_\_\_\_\_ Metres  Gas  Fresh  Salty  Sulphur  Minerals

**Casing Used, Screen Used, Casing and Well Details**

Galvanized  Galvanized  Steel  Steel  Fibreglass  Fibreglass  Plastic  Plastic  Concrete  Concrete

Diameter of the Hole (Centimetres): **15.39**

Depth of the Hole (Metres): **29.86**

Wall Thickness (Metres): **0.48**

Inside Diameter of the Casing (Metres): **15.86**

Depth of the Casing (Metres): **+4.45 to 9.14**

No Casing and Screen Used:  Open Hole

Disinfected?  Yes  No

**Ministry Use Only**

Audit No.: **z 77400** Well Contractor No.: \_\_\_\_\_

Date Received (yyyy/mm/dd): **Oct 13 2008** Date of Inspection (yyyy/mm/dd): \_\_\_\_\_

Remarks: \_\_\_\_\_



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 9 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83 18</b>	Easting <b>435333</b>	Northing <b>5004508</b>	Municipal Plan and Sublot Number <b>Other</b>

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Sticky	0	5.48
Grat	Limestone			5.48	37.48

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used	Volume Placed	
From	(Material and Type)	(m <sup>3</sup> /ft <sup>3</sup> )	
8.53	0	Grouted Bentonite Slurry	.42m <sup>3</sup>

Results of Well Yield Testing				
After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Static Level	4.48		
If pumping discontinued, give reason:	1	5.23	1	4.86
Pump intake set at (m/ft) <b>22.85</b>	2	5.39	2	4.70
Pumping rate (l/min / GPM) <b>54.6</b>	3	5.46	3	
Duration of pumping <b>1</b> hrs + <b> </b> min	4	5.50	4	4.62
Final water level end of pumping (m/ft) <b>5.69</b>	5	5.53	5	4.61
If flowing give rate (l/min / GPM)	10	5.55	10	4.57
Recommended pump depth (m/ft) <b>18.28</b>	15	5.60	15	4.54
Recommended pump rate (l/min / GPM) <b>45.5</b>	20	5.62	20	4.52
Well production (l/min / GPM)	25	5.64	25	4.52
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	30	5.56	30	4.52
	40	5.67	40	4.52
	50	5.68	50	4.52
	60	5.69	60	4.52

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse) <b>Air</b>	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+4.45	8.53	

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

Water Details		Hole Diameter	
Water found at Depth <b>35.65 (m/ft)</b>	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		From	To
Water found at Depth <b> </b> (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	0	8.53
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		8.63	37.48
Water found at Depth <b> </b> (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		15.23
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted <b>20080922</b>	

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20080917</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84400</b> OCT 14 2008 Received
Date Work Completed <b>20080916</b>		



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>		Municipality <b>Ottawa</b>	Province <b>Ontario</b>
		Postal Code <b>K1J9J8</b>	Telephone No. (inc. area code) <b>613 747 3993</b>

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 2 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83</b>	Easting <b>18435250</b>	Northing <b>5004396</b>	Municipal Plan and Sublot Number

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Packed	0	4.87
Gray	Limestone	Brown Layers	Medium	4.87	37.48

**Annular Space**

Depth Set at (m/ft) From <b>7.61</b>	To <b>0</b>	Type of Sealant Used (Material and Type) <b>Grouted Bentonite Slurry</b>	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> ) <b>.547m<sup>3</sup></b>
--	----------------	---	--

**Results of Well Yield Testing**

After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down	Recovery		
If pumping discontinued, give reason:  Pump intake set at (m/ft) <b>22.85</b> Pumping rate (l/min / GPM) <b>54.6</b> Duration of pumping <b>1</b> hrs + <b>0</b> min Final water level end of pumping (m/ft) <b>10.57</b> If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) <b>22.85</b> Recommended pump rate (l/min / GPM) <b>45.5</b> Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
	Static Level	<b>4.76</b>		
	1	<b>6.41</b>	1	<b>8.11</b>
	2	<b>7.15</b>	2	<b>6.45</b>
	3	<b>7.76</b>	3	<b>5.50</b>
	4	<b>8.35</b>	4	<b>5.11</b>
	5	<b>8.57</b>	5	<b>4.99</b>
	10	<b>9.63</b>	10	<b>4.89</b>
	15	<b>10.08</b>	15	<b>4.85</b>
	20	<b>10.26</b>	20	<b>4.82</b>
25	<b>10.34</b>	25	<b>4.80</b>	
30	<b>10.40</b>	30	<b>4.79</b>	
40	<b>10.50</b>	40	<b>4.77</b>	
50	<b>10.54</b>	50		
60	<b>10.57</b>	60		

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting
<input checked="" type="checkbox"/> Rotary (Reverse) <b>Air</b>	<input type="checkbox"/> Driving
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging
<input checked="" type="checkbox"/> Air percussion	
<input type="checkbox"/> Other, specify	

**Well Use**

<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<b>15.86</b>	<b>Steel</b>	<b>.48</b>	<b>+4.45</b>	<b>7.61</b>	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

**Construction Record - Screen**

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

**Water Details**

Water found at Depth <b>18.28</b> (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify
Water found at Depth <b>36.26</b> (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify
Water found at Depth _____ (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
<b>0</b>	<b>15.86</b>
<b>7.61</b>	<b>15.23</b>

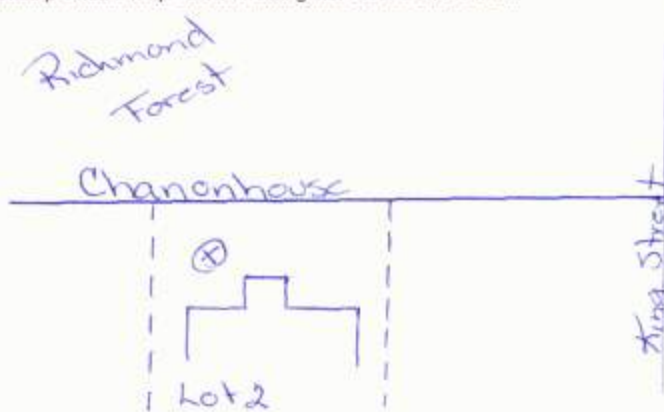
**Well Contractor and Well Technician Information**

Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>
Business E-mail Address <b>office@capitalwater.ca</b>	

Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>
	Date Submitted <b>20080922</b>

**Map of Well Location**

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20080917</b>
	Date Work Completed <b>20080916</b>

<b>Ministry Use Only</b>	
Audit No. <b>Z 84401</b>	
OCT 1 2008	
Received	



**Well Owner's Information**

First Name: Talos Custom Homes | Last Name: | E-mail Address: |  Well Constructed by Well Owner

Mailing Address (Street Number/Name, RR): 5509 Canotek Rd, Unit 1 | Municipality: Ottawa | Province: Ontario | Postal Code: K1J 9J8 | Telephone No. (inc. area code): 613 747 3993

**Part A Construction and/or Major Alteration of a Well**

Address of Well Location (Street Number/Name, RR): Lot 8 Richmond Forest | Township: Goulbourn | Lot: 25 | Concession: 3

County/District/Municipality: Ottawa Carleton | City/Town/Village: Richmond | Province: Ontario | Postal Code: |

UTM Coordinates: Zone: 18 | Easting: 435321 | Northing: 5004487 | GPS Unit Make: Garmin | Model: | Mode of Operation:  Undifferentiated  Averaged  Differentiated, specify \_\_\_\_\_

**Overburden and Bedrock Materials (see instructions on the back of this form)**

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
Brown	Sandy Clay	Stones	Packed	0	4.57
Gray	Limestone		Medium Hard	4.57	29.86

**Annular Space/Abandonment Sealing Record**

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
7.77	0	Grouted Bentonite Slurry	.315m <sup>3</sup>

**Results of Well Yield Testing**

Time (Min)	Draw Down		Recovery	
	Water Level (Metres)	Time (Min)	Water Level (Metres)	Time (Min)
Static Level	3.95	Static Level		
1	4.94	1	4.36	
2	5.22	2	4.17	
3	5.35	3	4.11	
4	5.39	4	4.08	
5	5.43	5	4.06	
10	5.50	10	4.01	
15	5.51	15	3.99	
20	5.53	20	3.98	
25	5.54	25	3.97	
30	5.54	30	3.97	
40	5.55	40		
50	5.56	50		
60	5.58	60		

Check box if after test of well yield, water was:  
 Clear and sand free  
 Cannot develop to sand-free state

If pumping discontinued, give reason: \_\_\_\_\_

Pumping test method: **Submersible**

Pump intake set at (Metres): 22.85

Pumping rate (Litres/min): 54.6

Duration of pumping: 1 hrs + min

Final water level end of pumping (Metres): 5.58

Recommended pump type:  Shallow  Deep

Recommended pump depth: 22.85 Metres

Recommended pump rate (Litres/min): 45.5

If flowing give rate (Litres/min): \_\_\_\_\_

**Method of Construction**

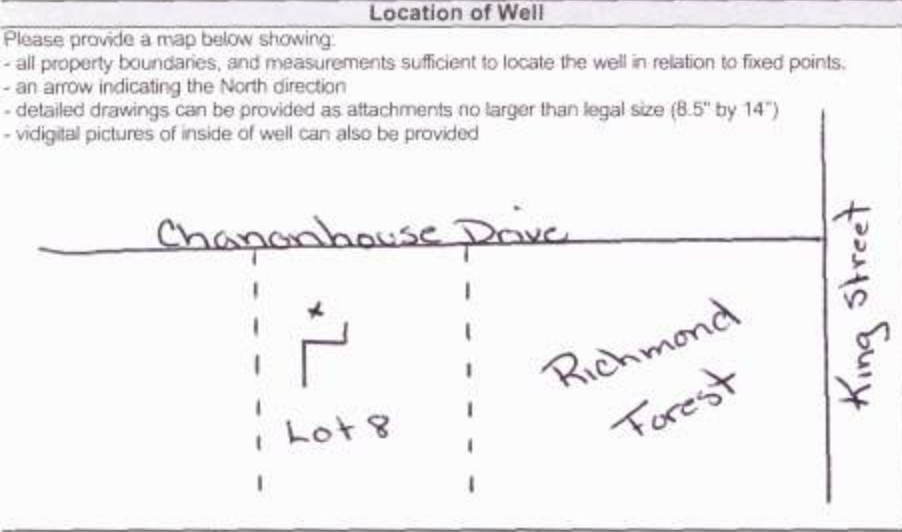
Cable Tool  Diamond  Rotary (Conventional)  Jetting  Rotary (Reverse)  Driving  Rotary (Air)  Digging  Air percussion  Boring  Other, specify \_\_\_\_\_

**Water Use**

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

**Status of Well**

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



**Water Details**

Water found at Depth	Kind of Water
12.19 Metres <input type="checkbox"/> Gas	Not Tested <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
27.43 Metres <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals
Metres <input type="checkbox"/> Gas	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals

Date Well Completed (yyyy/mm/dd): 2008/7/8 | Was the well owner's information package delivered?  Yes  No | Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): 2008/7/9

**Casing Used**

Galvanized  Steel  Fibreglass  Plastic  Concrete

**Screen Used**

Galvanized  Steel  Fibreglass  Plastic  Concrete

**Casing and Well Details**

Diameter of the Hole (Centimetres): 15.39

Depth of the Hole (Metres): 29.86

Wall Thickness (Metres): 0.48

Inside Diameter of the Casing (Metres): 15.86

Depth of the Casing (Metres): +.45 to 7.77

**No Casing and Screen Used**

Open Hole

Disinfected?  Yes  No

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: Capital Water Supply Ltd. | Well Contractor's Licence No.: 1 5 5 8

Business Address (Street No./Name, number, RR): Box 490 | Municipality: Stittsville

Province: Ontario | Postal Code: K2S 1A6 | Business E-mail Address: office@capitalwater.ca

Bus. Telephone No. (inc. area code): 613 836 1766 | Name of Well Technician (Last Name, First Name): Miller, Stephen

Well Technician's Licence No.: 0 0 9 7 | Signature of Technician: [Signature] | Date Submitted (yyyy/mm/dd): 2008/7/11

**Ministry Use Only**

Audit No.: **z 77389** | Well Contractor No.: \_\_\_\_\_

Date Received (yyyy/mm/dd): Oct 14 2009 | Date of Inspection (yyyy/mm/dd): \_\_\_\_\_

Remarks: \_\_\_\_\_







**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 25 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83 18</b>	Easting <b>435371</b>	Northing <b>5004501</b>	Municipal Plan and Sublot Number <b>Other</b>

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones		0	3.04
Gray	Clay	Sand	Loose	3.04	6.09
Gray	Limestone	Badly Broken	Fault in Rock	6.09	10.97
Gray	Limestone		Medium	10.97	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 13.10 To: 0	Grouted Bentonite Slurry	1.05m <sup>3</sup>	

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+4.5	13.10	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
41.75		From: 0 To: 13.10	15.86
		13.10	45.10
			15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6138361766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted <b>20080922</b>	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	4.52		
Pump intake set at (m/ft) <b>22.85</b>		1	6.30	1	8.23
Pumping rate (l/min / GPM) <b>54.6</b>		2	7.38	2	6.70
Duration of pumping <b>1</b> hrs + <b>0</b> min		3	8.14	3	5.67
Final water level end of pumping (m/ft) <b>10.56</b>		4	8.67	4	5.05
If flowing give rate (l/min / GPM)		5	9.09	5	4.80
Recommended pump depth (m/ft) <b>22.85</b>		10	10.	10	4.55
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	10.27	15	
Well production (l/min / GPM)		20	10.41	20	
Disinfected?		25	10.47	25	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		30	10.50	30	
		40	10.53	40	
		50	10.55	50	
		60	10.56	60	

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	20080917		Audit No. <b>Z 84399</b>	
		Date Work Completed		<b>OCT 1 2008</b>	
		20080916		Received	



**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 5 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 83 18 43 52 67 50 04 44 6</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Clay	Stones	Packed	0	5.79
Gray	Limestone		Medium	5.79	37.48

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From	To		
7.61	0 Grouted Bentonite Slurry	.42m <sup>3</sup>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) Air <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning	<input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	.48	+ .45	7.61	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
		From	To
36.26		0	7.61 15.86
		7.61	37.48 15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	Date Submitted <b>20080910</b>	
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor <i>[Signature]</i>		

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	4.59		
Pump intake set at (m/ft) <b>30.47</b>		1	6.20	1	7.64
Pumping rate (l/min / GPM) <b>54.6</b>		2	6.97	2	6.17
Duration of pumping <b>1</b> hrs + <b> </b> min		3	7.52	3	5.32
Final water level end of pumping (m/ft) <b>10.18</b>		4	7.89	4	4.96
If flowing give rate (l/min / GPM)		5	8.21	5	4.86
Recommended pump depth (m/ft) <b>22.85</b>		10	9.15	10	4.59
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	9.56	15	
Well production (l/min / GPM)		20	9.79	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	9.83	25	
		30	9.95	30	
		40	10.01	40	
		50	10.10	50	
		60	10.18	60	

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20080908</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84390</b> Received <b>07/14/2009</b>
Date Work Completed <b>20080904</b>		



Measurements recorded in:  Metric  Imperial

 A068310 **A 068310**

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**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>		Municipality <b>Ottawa</b>	Province <b>Ontario</b>
		Postal Code <b>K1J 9J8</b>	Telephone No. (inc. area code) <b>613 747 3993</b>

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 14 Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 83 18 43 54 04 50 04 63 1</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Soil	Stones	Packed	0	5.48
Gray	Limestone			5.48	45.10

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From: 7.77 To: 0	Grouted Bentonite Slurry	.69m <sup>3</sup>

**Results of Well Yield Testing**

After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft) <b>30.47</b> Pumping rate (l/min / GPM) <b>54.6</b> Duration of pumping <b>1</b> hrs + <b> </b> min Final water level end of pumping (m/ft) <b>11.64</b> If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) <b>22.85</b> Recommended pump rate (l/min / GPM) <b>45.5</b> Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	3.63		
	1	5.18	1	8.37
	2	6.13	2	5.67
	3	6.82	3	5.03
	4	7.40	4	4.30
	5	8.60	5	3.45
10	9.40	10	3.65	
15	10.17	15		
20	10.79	20		
25	11.05	25		
30	11.18	30		
40	11.47	40		
50	11.57	50		
60	11.64	60		

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
15.86	Steel	.48	+4.45	7.77	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

**Construction Record - Screen**

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

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)		Diameter (cm/in)
		From	To	
42.36	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	7.77	15.86
		7.77	45.10	15.23

**Hole Diameter**
**Well Contractor and Well Technician Information**

Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>
Province <b>Ontario</b>	Postal Code <b>K2S 1A6</b>
Business E-mail Address <b>office@capitalwater.ca</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Signature of Technician and/or Contractor 
Well Technician's Licence No. <b>0 0 9 7</b>	Date Submitted <b>2 0 0 8 1 1 1 0</b>

**Map of Well Location**

Please provide a map below following instructions on the back.

Chanonhouse Dr.

King Street

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2 0 0 8 1 1 0 7</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84444</b> DEC 02 2008 Received
Date Work Completed <b>2 0 0 8 1 1 0 6</b>		



Measurements recorded in:  Metric  Imperial

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**Well Owner's Information**

First Name <b>Talos Custom Homes</b>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 29 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83 18</b>	Easting <b>435428</b>	Northing <b>5004553</b>	Municipal Plan and Sublot Number <b>Other</b>

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Packed	0	3.65
Gray	Clay	Stones	Sticky	3.65	6.09
Gray	Limestone		Medium	6.09	45.10

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From: 8.53 To: 0	Grouted Bentonite Slurry	.69m <sup>3</sup>

**Results of Well Yield Testing**

After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down	Recovery
If pumping discontinued, give reason:	Time (min)	Water Level (m/ft)
	Static Level	4.16
Pump intake set at (m/ft) <b>30.47</b>	1	12.05
Pumping rate (l/min / GPM) <b>54.6</b>	2	10.35
Duration of pumping <b>1</b> hrs + <b>min</b>	3	8.73
Final water level end of pumping (m/ft) <b>15.23</b>	4	7.38
If flowing give rate (l/min / GPM)	5	6.10
Recommended pump depth (m/ft) <b>22.85</b>	10	4.25
Recommended pump rate (l/min / GPM) <b>45.5</b>	15	4.16
Well production (l/min / GPM)	20	20
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	25	14.40
	30	14.62
	40	14.95
	50	15.09
	60	15.23

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse) Air	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
15.86	Steel	.48	+ .60	8.53	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

**Construction Record - Screen**

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

**Water Details**

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
42.36(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		From: 0 To: 8.53	15.86
(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		8.53 45.10	15.07

**Well Contractor and Well Technician Information**

Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>
Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>
Business E-mail Address <b>office@capitalwater.ca</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Date Submitted <b>2008 11 17</b>
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor 

**Map of Well Location**

Please provide a map below following instructions on the back.

Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2008 11 13</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84445</b> DEC 02 2008 Received
Date Work Completed <b>2008 11 12</b>		



Measurements recorded in:  Metric  Imperial

 A076812 **A076812**

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**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 1 - Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 83 18 435216 5004384</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Packed	0	4.26
Gray	Limestone		Medium	4.26	47.24

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From	To		
7.31	0 Grouted Bentonite Slurry	.46m <sup>3</sup>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) <b>Air</b> <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Livestock <input type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <input type="checkbox"/> Irrigation <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+ .45	7.31	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
From	To	From	To
45.41	0	0	7.31 15.86
7.31	47.24	7.31	47.24 15.55

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>	Municipality <b>Stittsville</b>	
Business Address (Street Number/Name) <b>Box 490</b>	Province <b>Ontario</b>	Postal Code <b>K2S1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>
Well Technician's Licence No. <b>6138361766</b>	Signature of Technician and/or Contractor 	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	Date Submitted <b>20081203</b>
0 0 9 7		2 0 0 8 1 2 0 3	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.75		
Pump intake set at (m/ft) <b>30.47</b>		1	4.58	1	3.99
Pumping rate (l/min / GPM) <b>54.6</b>		2	4.84	2	3.98
Duration of pumping <b>1</b> hrs + <b> </b> min		3	4.93	3	3.83
Final water level end of pumping (m/ft) <b>5.25</b>		4	4.98	4	3.80
If flowing give rate (l/min / GPM)		5	5.01	5	3.79
Recommended pump depth (m/ft) <b>19.81</b>		10	5.10	10	3.76
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	5.19	15	
Well production (l/min / GPM)		20	5.21	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	5.22	25	
		30	5.23	30	
		40	5.29	40	
		50	5.26	50	
		60	5.25	60	

Map of Well Location	
Please provide a map below following instructions on the back.	

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20081203</b>	<b>Ministry Use Only</b> Audit No. <b>Z 84460</b> <b>FEB 12 2009</b> Received
Date Work Completed <b>20081202</b>		



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name \_\_\_\_\_ Last Name / Organization **Talos Custom Homes** E-mail Address \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name) **5509 Canotek Road - Unit 1** Municipality **Ottawa** Province **Ontario** Postal Code **K1J 9J8** Telephone No. (inc. area code) **613 747 3993**

**Well Location**

Address of Well Location (Street Number/Name) **Lot 10 Richmond Forest** Township **Goulbourn** Lot **25** Concession **3**

County/District/Municipality **Ottawa Carleton** City/Town/Village **Richmond** Province **Ontario** Postal Code \_\_\_\_\_

UTM Coordinates Zone **18** Easting **435356** Northing **5004513** Municipal Plan and Sublot Number \_\_\_\_\_ Other \_\_\_\_\_

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Packed	0	5.79
Gray	Limestone		Medium	5.79	48.76

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used	Volume Placed	
From	(Material and Type)	(m <sup>3</sup> /ft <sup>3</sup> )	
8.83	0 Grouted Bentonite Slurry	.43m <sup>3</sup>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) <b>Air</b> <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <input type="checkbox"/> Cooling & Air Conditioning	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	.48	+ .45	8.83	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)
		From	To
46.63		0	8.83
		8.83	48.76

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>		Well Contractor's Licence No. <b>1 5 5 8</b>	
Business Address (Street Number/Name) <b>Box 490</b>		Municipality <b>Stittsville</b>	
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>		Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	
Well Technician's Licence No. <b>0 0 9 7</b>		Date Submitted <b>2 0 0 8 1 2 0 3</b>	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.90		
Pump intake set at (m/ft) <b>45.71</b>		1	5.10	1	5.18
Pumping rate (l/min / GPM) <b>54.6</b>		2	5.67	2	4.29
Duration of pumping <b>1</b> hrs + _____ min		3	5.99	3	3.98
Final water level end of pumping (m/ft) <b>6.98</b>		4	6.24	4	3.94
If flowing give rate (l/min / GPM)		5	6.47	5	3.92
Recommended pump depth (m/ft) <b>22.85</b>		10	6.85	10	
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	6.94	15	
Well production (l/min / GPM)		20	7	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	7.04	25	
		30	6.97	30	
		40	6.97	40	
		50	6.97	50	
		60	6.98	60	

**Map of Well Location**

Please provide a map below following instructions on the back.

Well owner's information package delivered	Date Package Delivered	Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<b>2 0 0 8 1 2 0 3</b>	Audit No. <b>Z 84461</b>	<b>FEB 12 2009</b>
<input type="checkbox"/> No	<b>2 0 0 8 1 2 0 2</b>	Received _____	



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name \_\_\_\_\_ Last Name / Organization **Talos Custom Homes** E-mail Address \_\_\_\_\_  Well Constructed by Well Owner

Mailing Address (Street Number/Name) **5509 Canotek Rd. Unit 1** Municipality **Ottawa** Province **Ontario** Postal Code **K1J 9J8** Telephone No. (inc. area code) **613 747 3993**

**Well Location**

Address of Well Location (Street Number/Name) **Lot 18 Richmond Forest** Township **Goulbourn** Lot **25** Concession **3**

County/District/Municipality **Ottawa Carleton** City/Town/Village **Richmond** Province **Ontario** Postal Code \_\_\_\_\_

UTM Coordinates Zone **18** Easting **435254** Northing **5004394** Municipal Plan and Sublot Number \_\_\_\_\_ Other \_\_\_\_\_

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Soil	Stones	Packed	0	5.48
Gray	Limestone		Medium	5.48	29.86

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used	Volume Placed
From To	(Material and Type)	(m <sup>3</sup> /ft <sup>3</sup> )
8.53 0	Grouted Bentonite Slurry	.42m <sup>3</sup>

**Results of Well Yield Testing**

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason: _____	Static Level	3.90		
	1	4.06	1	4.15
Pump intake set at (m/ft) <b>16.76</b>	2	4.09	2	4.10
Pumping rate (l/min / GPM) <b>54.6</b>	3	4.13	3	4.07
Duration of pumping <b>1</b> hrs + _____ min	4	4.16	4	4.05
Final water level end of pumping (m/ft) <b>4.34</b>	5	4.19	5	4.01
If flowing give rate (l/min / GPM) _____	10	4.25	10	3.92
	15	4.27	15	
	20	4.29	20	
Recommended pump depth (m/ft) <b>16.78</b>	25	4.32	25	
Recommended pump rate (l/min / GPM) <b>45.5</b>	30	4.31	30	
Well production (l/min / GPM) _____	40	4.32	40	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50	4.33	50	
	60	4.34	60	

**Method of Construction**

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

**Well Use**

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

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
15.86	Steel	.48	+ .45	8.53	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

**Construction Record - Screen**

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

**Water Details**

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft) From To Diameter (cm/in)
27.73	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 8.53 15.86
		8.53 29.86 15.55

**Well Contractor and Well Technician Information**

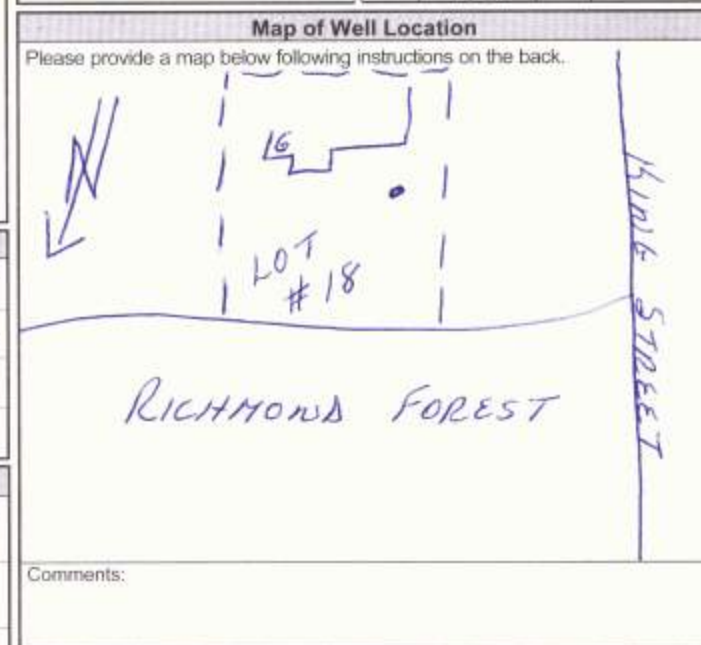
Business Name of Well Contractor **Capital Water Supply Ltd.** Well Contractor's Licence No. **1 5 5 8**

Business Address (Street Number/Name) **Box 490** Municipality **Stittsville**

Province **Ontario** Postal Code **K2S1A6** Business E-mail Address **office@capitalwater.ca**

Bus. Telephone No. (inc. area code) **613 836 1766** Name of Well Technician (Last Name, First Name) **Miller, Stephen**

Well Technician's Licence No. **0 0 9 7** Signature of Technician and/or Contractor \_\_\_\_\_ Date Submitted **20081216**



Well owner's information package delivered  Yes  No

Date Package Delivered **20081211**

Date Work Completed **20081209**

**Ministry Use Only**

Audit No. **Z 84464**

**FEB 12 2009**



Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner	
	Talos Custom Homes			
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
5509 Canotek Road - Unit 1	Ottawa	Ontario	K1J 9J8	613 747 3993

**Well Location**

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Lot 22 - Richmond Forest	Goulbourn	25	3
County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	Richmond	Ontario	
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublot Number	Other	
NAD 83 18 435315 5004443			

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Clay	Stones	Packed	0	4.57
Gray	Limestone		Medium	4.57	47.24

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 7.92 To: 0	Grouted Bentonite Slurry	.52m <sup>3</sup>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) Air <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+4.45	7.92	

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From: To:	<input type="checkbox"/> Other, specify

Water Details		Hole Diameter		
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)	
44.80 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	From: To:		
		0 7.92	15.86	
		7.92 47.24	15.39	

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
Capital Water Supply Ltd.	1 5 5 8		
Business Address (Street Number/Name)	Municipality		
Box 490	Stittsville		
Province	Postal Code	Business E-mail Address	
Ontario	K 2 S 1 A 6	office@capitalwater.ca	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
6 1 3 8 3 6 1 7 6 6	Miller, Stephen		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
0 0 9 7		20090120	

Results of Well Yield Testing				
After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify				
If pumping discontinued, give reason:	Static Level	4.06		
	1	5.78	1	13.10
	Pump intake set at (m/ft)			
	45.71		2	10.78
	Pumping rate (l/min / GPM)			
	36.40		3	9.02
Duration of pumping				
1 hrs + min		4	7.84	
Final water level end of pumping (m/ft)				
16.39		5	6.88	
If flowing give rate (l/min / GPM)	10	12	10	4.38
	15	12.98	15	4.06
	20	14.11	20	
	25	14.64	25	
	30	15.20	30	
	40	15.73	40	
Recommended pump depth (m/ft)				
30.47		50	16.14	
Recommended pump rate (l/min / GPM)				
45.5		60	16.39	
Well production (l/min / GPM)				
Disinfected?				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Ministry Use Only	
Well owner's information package delivered	Date Package Delivered
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20090121
	Date Work Completed
	20090120
Audit No.	Received
Z 84473	
FEB 12 2009	



**Well Owner's Information**

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner	
Talos Custom Homes				
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
5509 Canotek Rd. Unit 1	Ottawa	Ontario	K1J 9J8	613 747 3993

**Well Location**

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Lot 30, Richmond Forest	Goulbourn	25	3
County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	Richmond	Ontario	
UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD 83	18	435437	5004548

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Soil	Stones		0	4.26
Gray	Hardpan	Boulders	Packed	4.26	8.83
Gray	Limestone		Medium	8.83	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 8.83 To: 0	Grouted Bentonite Slurry	.84m <sup>3</sup>	

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	.48	+ .45	8.83	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
43.27	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	8.83
		8.83	45.10

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
Capital Water Supply Ltd.	1 5 5 8		
Business Address (Street Number/Name)	Municipality		
Box 490	Stittsville		
Province	Postal Code	Business E-mail Address	
Ontario	K2S1A6	office@capitalwater.ca	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
6138361766	Miller, Stephen		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
0097		20090306	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.99		
Pump intake set at (m/ft)		1	4.74	1	4.27
30.47		2	4.90	2	4.11
Pumping rate (l/min / GPM)		3	4.94	3	4.04
54.6		4	4.98	4	4
Duration of pumping		5	5.	5	
1 hrs + min		10	5.08	10	
Final water level end of pumping (m/ft)		15	5.09	15	
5.14		20	5.11	20	
If flowing give rate (l/min / GPM)		25	5.12	25	
Recommended pump depth (m/ft)		30	5.12	30	
22.85		40	5.13	40	
Recommended pump rate (l/min / GPM)		50	5.13	50	
45.5		60	5.14	60	
Well production (l/min / GPM)					
Disinfected?					
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

Map of Well Location	
Please provide a map below following instructions on the back.	

Well owner's information package delivered	Date Package Delivered	<b>Ministry Use Only</b> Audit No. <b>2095337</b> <b>APR 06 2009</b> Received
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Work Completed	
	20090306	
	20090305	



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Rd. Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 31, Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 8 31 8 4 3 5 4 5 2 5 0 0 4 5 9 9</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Soil	Stones		0	4.26
Gray	Hardpan	Boulders	Packed	4.26	7.01
Gray	Limestone		Medium	7.01	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From	To		
8.83	0	Grouted Bentonite Slurry	.84m <sup>3</sup>

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) Air <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning	<input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

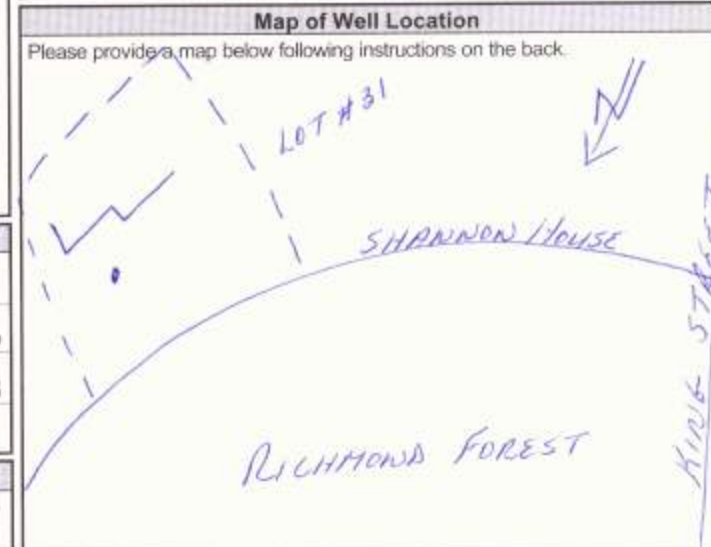
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	.48	+ .45	8.83	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
43.27	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	15.86
		8.83	15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor	Date Submitted <b>20090306</b>	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.95		
Pump intake set at (m/ft) <b>30.47</b>		1	5.30	1	5.62
Pumping rate (l/min / GPM) <b>54.6</b>		2	5.84	2	4.50
Duration of pumping <b>1 hrs + min</b>		3	6.24	3	4.04
Final water level end of pumping (m/ft) <b>7.78</b>		4	6.53	4	3.93
If flowing give rate (l/min / GPM)		5	6.77	5	
Recommended pump depth (m/ft) <b>22.85</b>		10	7.17	10	
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	7.37	15	
Well production (l/min / GPM)		20	7.49	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	7.58	25	
		30	7.64	30	
		40	7.68	40	
		50	7.73	50	
		60	7.78	60	



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2 0 0 9 0 3 0 6</b>	<b>Ministry Use Only</b> Audit No. <b>2 0 9 5 3 3 8</b> <b>APR 0 6 2009</b> Received
Date Work Completed <b>2 0 0 9 0 3 0 5</b>		



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Rd. Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 31, Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 8 31 8 4 3 5 4 5 2 5 0 0 4 5 9 9</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Soil	Stones		0	4.26
Gray	Hardpan	Boulders	Packed	4.26	7.01
Gray	Limestone		Medium	7.01	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used	Volume Placed	
From	(Material and Type)	(m <sup>3</sup> /ft <sup>3</sup> )	
8.83	0	Grouted Bentonite Slurry	.84m <sup>3</sup>

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

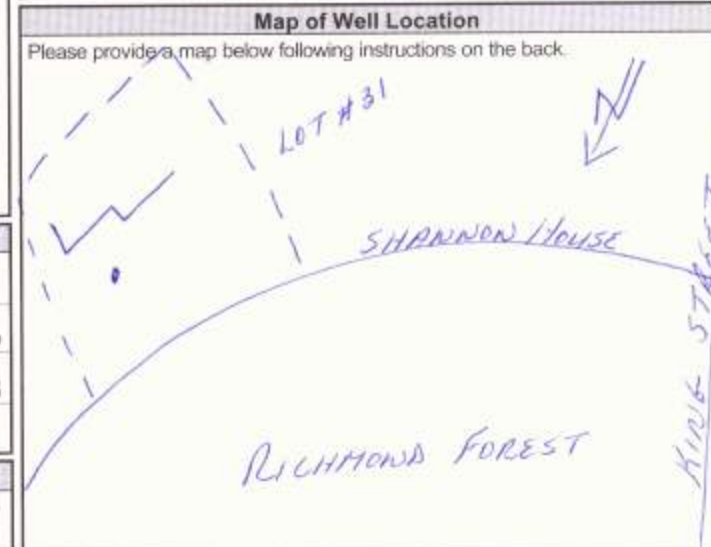
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	.48	+ .45	8.83	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
43.27	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	15.86
		8.83	15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor	Date Submitted <b>20090306</b>	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.95		
Pump intake set at (m/ft) <b>30.47</b>		1	5.30	1	5.62
Pumping rate (l/min / GPM) <b>54.6</b>		2	5.84	2	4.50
Duration of pumping <b>1</b> hrs + <b>0</b> min		3	6.24	3	4.04
Final water level end of pumping (m/ft) <b>7.78</b>		4	6.53	4	3.93
If flowing give rate (l/min / GPM)		5	6.77	5	
Recommended pump depth (m/ft) <b>22.85</b>		10	7.17	10	
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	7.37	15	
Well production (l/min / GPM)		20	7.49	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	7.58	25	
		30	7.64	30	
		40	7.68	40	
		50	7.73	50	
		60	7.78	60	



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2 0 0 9 0 3 0 6</b>	<b>Ministry Use Only</b> Audit No. <b>2 0 9 5 3 3 8</b> <b>APR 0 6 2009</b> Received
Date Work Completed <b>2 0 0 9 0 3 0 5</b>		



**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 26 Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>3</b>	Concession <b>25</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates <b>NAD 83 18 43 53 71 5004 517</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Soil	Stones	Packed	0	3.35
Gray	Sandy Soil	Stones	Packed	3.35	5.79
Gray	Limestone		Medium	5.79	45.10

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To	
8.83	0 Grouted Bentonite Slurry	.42m <sup>3</sup>

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse) Air	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+ .45	8.83	

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

Water Details		Hole Diameter		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)		Diameter (cm/in)
		From	To	
43.88 (144.19)		0	8.83	15.86
		8.83	45.10	15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	

Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor 	Date Submitted <b>2 0 0 9 0 3 3 0</b>	

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft) <b>30.48</b> Pumping rate (l/min / GPM) <b>54.6</b> Duration of pumping <b>1</b> hrs + _____ min Final water level end of pumping (m/ft) <b>6.46</b> If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) <b>22.85</b> Recommended pump rate (l/min / GPM) <b>45.5</b> Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	3.32		
	1	4.79	1	4.26
	2	5.30	2	3.91
	3	5.64	3	3.46
	4	5.88	4	3.41
5	5.98	5	3.39	
10	6.24	10	3.33	
15		15		
20	6.37	20		
25		25		
30		30		
40	6.43	40		
50	6.44	50		
60	6.46	60		

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Ministry Use Only	
Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>2 0 0 9 0 3 3 0</b> Date Work Completed <b>2 0 0 9 0 3 2 4</b>
Audit No. <b>2 0 9 5 3 2 4</b>	Received <b>MAY 2 0 2009</b>



Address of Well Location (Street Number/Name) <b>Lot 27 Chanonhouse Drive</b>		Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>		City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD	83	18435407	5004510	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)					
General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Sandy Clay	Stones	Packed	0	3.65
Gray	Sandy Clay	Stones	Packed	3.65	5.48
Gray	Limestone		Medium	5.48	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 8.53 To: 0	Grouted Bentonite Slurry	.63m <sup>3</sup>	

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse) Air	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

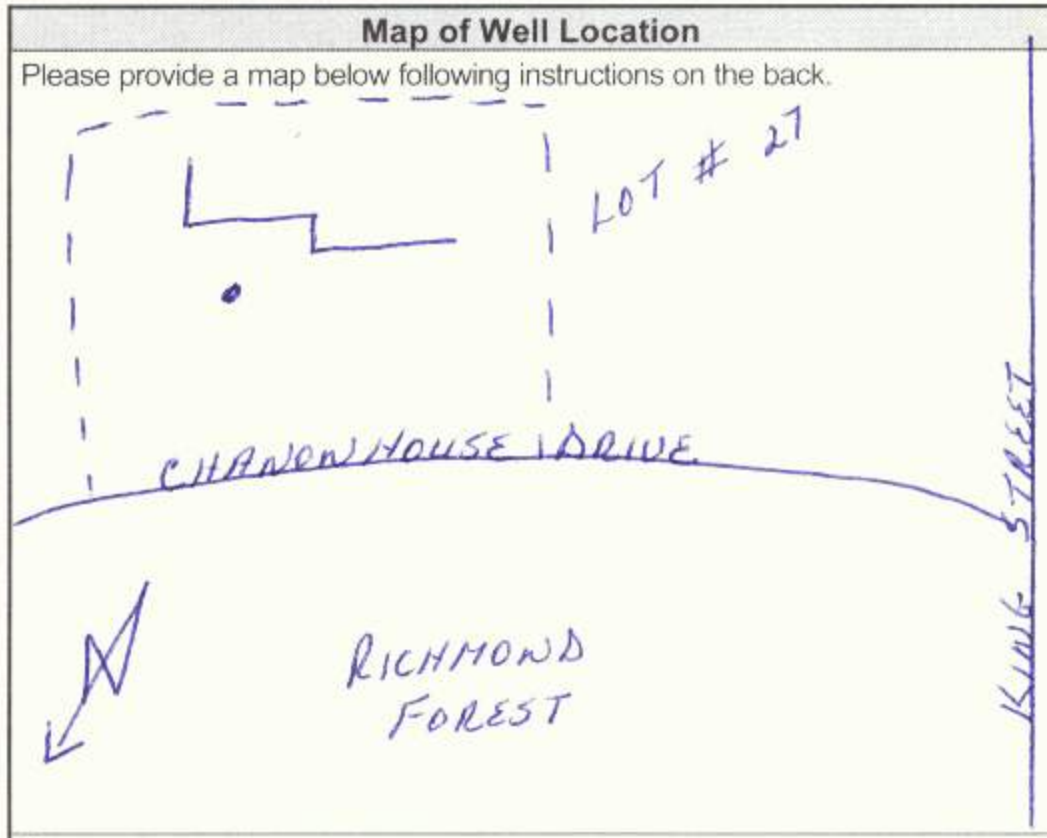
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+ .45	8.53	

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

Water Details		Hole Diameter		
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)	
43.58 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	From: 0 To: 8.53	15.86	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	8.53	45.10	15.23
(m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested			
(m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>		Well Contractor's Licence No. <b>1 5 5 8</b>	
Business Address (Street Number/Name) <b>Box 490</b>		Municipality <b>Stittsville</b>	
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>		Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	
Well Technician's Licence No. <b>0 0 9 7</b>		Date Submitted <b>2 0 0 9 0 3 3 0</b>	

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level	3.22		
	1	4.72	1	5.09
	2	5.55	2	3.92
	3	6.15	3	3.47
	4	6.53	4	3.32
Pump intake set at (m/ft) <b>22.85</b>				
Pumping rate (l/min / GPM) <b>54.6</b>				
Duration of pumping <b>1</b> hrs + <b>0</b> min				
Final water level end of pumping (m/ft) <b>7.73</b>				
If flowing give rate (l/min / GPM)				
Recommended pump depth (m/ft) <b>22.85</b>				
Recommended pump rate (l/min / GPM) <b>45.5</b>				
Well production (l/min / GPM)				
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



Comments:

Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2 0 0 9 0 3 3 0	2 0 0 9 0 3 2 4	Audit No. <b>Z 095325</b>	Recd <b>MAY 20 2009</b>



Measurements recorded in:  Metric  Imperial

A076798

**A076798**

Page \_\_\_\_\_ of \_\_\_\_\_

Address of Well Location (Street Number/Name) <b>Lot 28 Richmond Forest</b>		Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>		City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD	8	3	1	8
	4	3	5	3
	9	8	5	0
	0	4	5	3
				2

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones		0	4.26
Gray	Clay	Stones		4.26	5.79
Gray	Limestone			5.79	45.10

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
From	To	
8.83	0	Grouted Bentonite Slurry
		.42m <sup>3</sup>

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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+ .45	8.83	

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

Water Details		Hole Diameter		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)	
		From	To	
42.66	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	8.83	15.86
		8.83	45.10	15.07

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>		Well Contractor's Licence No. <b>1 5 5 8</b>	
Business Address (Street Number/Name) <b>Box 490</b>		Municipality <b>Stittsville</b>	
Province <b>Ontario</b>	Postal Code <b>K 2 S 1 A 6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>6 1 3 8 3 6 1 7 6 6</b>		Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	
Well Technician's Licence No. <b>0 0 9 7</b>		Date Submitted <b>2 0 0 9 0 3 2 5</b>	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.57		
Pump intake set at (m/ft) <b>30.47</b>		1	4.49	1	3.67
Pumping rate (l/min / GPM) <b>54.6</b>		2	4.65	2	3.58
Duration of pumping <b>1</b> hrs + <b>_____</b> min		3	4.70	3	
Final water level end of pumping (m/ft) <b>4.81</b>		4	4.72	4	
If flowing give rate (l/min / GPM)		5	4.73	5	
Recommended pump depth (m/ft) <b>22.85</b>		10	4.75	10	
Recommended pump rate (l/min / GPM) <b>45.5</b>		15	4.77	15	
Well production (l/min / GPM)		20	4.80	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	4.80	25	
		30	4.80	30	
		40	4.80	40	
		50	4.80	50	
		60	4.81	60	

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2 0 0 9 0 3 2 4		Audit No.	<b>2 095328</b>
		Date Work Completed			<b>MAY 20 2009</b>
		2 0 0 9 0 3 2 3		Received	



**A066513**

Address of Well Location (Street Number/Name) **(No Civic) Huntley Road** Township **Goulbourn** Lot **24** Concession **4**  
 County/District/Municipality **Ottawa-Carleton** City/Town/Village **Richmond** Province **Ontario** Postal Code \_\_\_\_\_  
 UTM Coordinates Zone **18** Easting **435521** Northing **5004251** Municipal Plan and Sublot Number \_\_\_\_\_ Other \_\_\_\_\_

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
	Grey Clay			0	56'
	Grey limestone			56'	176'
	Grey Sandstone + limestone Mix			176'	240'

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
62' 52'	Neat Cement Slurry	9.36
52' 0"	Portland Slurry	16.8

**Results of Well Yield Testing**

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

If pumping discontinued, give reason: \_\_\_\_\_

Pump intake set at (m/ft) **220**

Pumping rate (l/min / GPM) **20**

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

Final water level end of pumping (m/ft) **16' 8"**

If flowing give rate (l/min / GPM) \_\_\_\_\_

Recommended pump depth (m/ft) **(Clamp) 100'**

Recommended pump rate (l/min / GPM) **20**

Well production (l/min / GPM) **60**

Disinfected?  Yes  No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level	2' 3"		16' 8"	
1	9' 6"	1	7'	
2	12'	2	5'	
3	13' 2"	3	4'	
4	14' 2"	4	3'	
5	14' 8"	5	2'	
10	16'	10		
15	16' 2"	15		
20	16' 8"	20		
25	16' 8"	25		
30	16' 8"	30		
40		40		
50		50		
60		60		

**Method of Construction**

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

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
6"	Steel	.188"	12'	62'	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
6"	Openhole		62'	240'	

**Construction Record - Screen**

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

**Water Details**

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

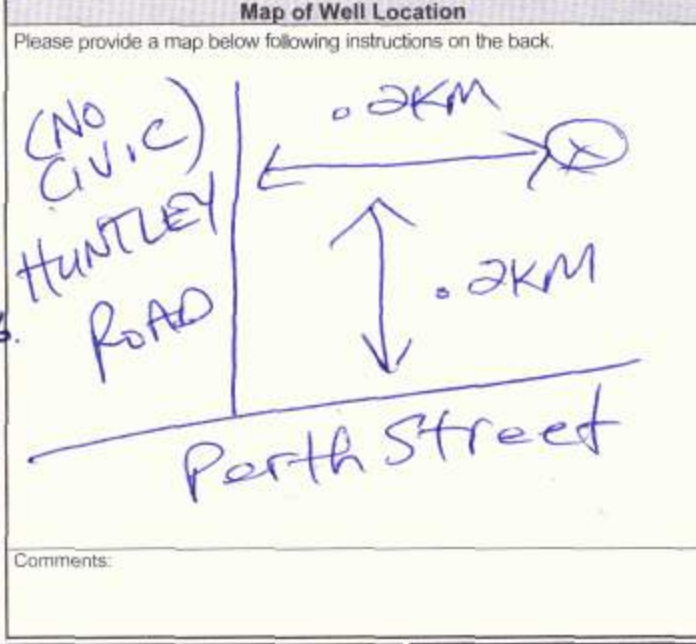
**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
0' 240'	5 15/16"

**Well Contractor and Well Technician Information**

Business Name of Well Contractor **Air Rock Drilling Co Ltd** Well Contractor's Licence No. **1119**  
 Business Address (Street Number/Name) **Rt#1** Municipality **Richmond**  
 Province **ON** Postal Code **K0A2Z0** Business E-mail Address \_\_\_\_\_

Bus. Telephone No. (inc. area code) **6138382170** Name of Well Technician (Last Name, First Name) **GRAHAM RYAN**  
 Well Technician's Licence No. **T3484** Signature of Technician and/or Contractor **[Signature]** Date Submitted **20060603**



Well owner's information package delivered  Yes  No

Date Package Delivered **20090519** Date Work Completed **20090515**

**Ministry Use Only**

Audit No. **20090582**  
**JUN 08 2009**  
 Received **JUN 08 2009**



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Rd. - Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 19, Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone <b>NAD 83 18</b>	Easting <b>435282</b>	Northing <b>5004405</b>	Municipal Plan and Sublot Number

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Soil	Stones		0	6.4
Gray	Limestone			6.4	23.46

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 8.83 To: 0	Grouted Bentonite Slurry	.52m <sup>3</sup>	

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input checked="" type="checkbox"/> Rotary (Reverse Air)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+4.5	8.83	

Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From: To:	<input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Water Details		Hole Diameter	
Water found at Depth: 22.85(m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft) From: 0 To: 8.83	Diameter (cm/in): 15.86
Water found at Depth: (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: 8.83 To: 23.46	Diameter (cm/in): 15.55
Water found at Depth: (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S 1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Bus. Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor 	Date Submitted <b>20090506</b>	

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level	3.93		
	1	4.13	1	4.16
	Pump intake set at (m/ft) <b>16.76</b>			
	2	4.18	2	4.08
	Pumping rate (l/min / GPM) <b>54.6</b>			
	3	4.20	3	4.05
Duration of pumping <b>1 hrs + 30 min</b>				
4	4.22	4	4.03	
Final water level end of pumping (m/ft) <b>4.35</b>				
5	4.23	5	4	
If flowing give rate (l/min / GPM)				
10	4.28	10	3.96	
15	4.31	15	3.93	
20	4.31	20		
Recommended pump depth (m/ft) <b>16.76</b>				
25	4.32	25		
Recommended pump rate (l/min / GPM) <b>45.5</b>				
30	4.34	30		
Well production (l/min / GPM)				
40	4.33	40		
50	4.34	50		
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
60	4.34	60		

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Well owner's information package delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	Date Package Delivered <b>20090506</b>	Audit No. <b>2095305</b>	
<input type="checkbox"/> No	Date Work Completed <b>20090506</b>	<b>JUN 23 2009</b>	



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Talos Custom Homes			
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
5509 Canotek Road, Unit 1	Ottawa	Ontario	K1J 9J8
		Telephone No. (inc. area code)	613 747 3993

**Well Location**

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Lot 20, Richmond Forest	Goulbourn	25	3
County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	Richmond	Ontario	
UTM Coordinates	Zone	Easting	Northing
NAD 83	18	435287	5004427
Municipal Plan and Sublot Number		Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones	Packed	0	6.70
Grey	Limestone	Dark Layers	Medium	6.70	25.90

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
From: 8.83 To: 0	Grouted Bentonite Slurry	.42m <sup>3</sup>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) Air <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	Steel	.48	+6.60	8.83	

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

Water Details		Hole Diameter	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
18.28(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		From: 0 To: 8.83	15.86
21.33(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		8.83 To: 25.90	15.55
24.99(m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify			

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
Capital Water Supply Ltd.	1 5 5 8		
Business Address (Street Number/Name)	Municipality		
Box 490	Stittsville		
Province	Postal Code	Business E-mail Address	
Ontario	K2S 1A6	office@capitalwater.ca	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
613 836 1766	Miller, Stephen		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
0 0 9 7		2009 05 06	

Results of Well Yield Testing				
After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify				
If pumping discontinued, give reason:	Static Level	3.96		
Pump intake set at (m/ft)	1	4.10	1	4.16
18.28	2	4.15	2	4.11
Pumping rate (l/min / GPM)	3	4.18	3	4.08
54.6	4	4.21	4	4.06
Duration of pumping	5	4.24	5	4.04
1 hrs + min	10	4.26	10	4.
Final water level end of pumping (m/ft)	15	4.32	15	3.97
4.35	20	4.33	20	3.96
If flowing give rate (l/min / GPM)	25	4.34	25	
Recommended pump depth (m/ft)	30	4.35	30	
18.28	40	4.35	40	
Recommended pump rate (l/min / GPM)	50	4.36	50	
45.5	60	4.35	60	
Well production (l/min / GPM)				
Disinfected?				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Ministry Use Only	
Well owner's information package delivered	Date Package Delivered
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2009 05 06
Date Work Completed	2009 05 05
Audit No.	2095310
Received	JUN 23 2009





Measurements recorded in:  Metric  Imperial

A076823 **A076823**

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Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Well Constructed by Well Owner, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space: Depth Set at (m/ft), Type of Sealant Used, Volume Placed

Results of Well Yield Testing: After test of well yield, water was, Draw Down, Recovery, Pumping rate, Duration of pumping, Final water level end of pumping, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

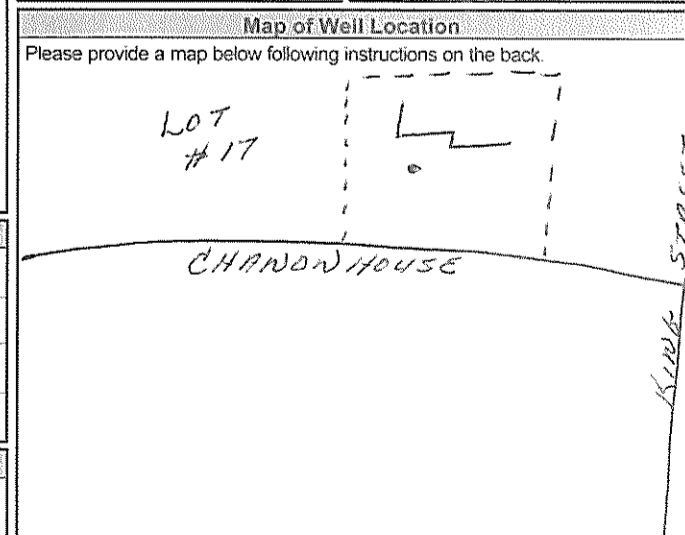
Method of Construction, Well Use

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft), Status of Well

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth (m/ft)

Water Details, Hole Diameter: Water found at Depth, Kind of Water, Depth (m/ft), Diameter (cm/in)

Well Contractor and Well Technician Information: Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality



Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Telephone No., Name of Well Technician, Signature of Technician and/or Contractor, Date Submitted

Comments, Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only: Audit No., Received

Measurements recorded in:  Metric  Imperial

Page \_\_\_\_\_ of \_\_\_\_\_

**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road, Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 12, Chanonhouse</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 83 18 435390 5004542</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones		0	6.09
Gray	Limestone		Medium	6.09	42.97
Gray & White Sandstone				42.97	51.81

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
From: 9.14 To: 0	Grouted Bentonite Slurry	.63m³	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Rotary (Reverse) Air <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+ .45	9.14	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)
50.59		From: 0 To: 9.14	15.86
		9.14	51.81

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>	Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>
Province <b>Ontario</b>	Postal Code <b>K2S 1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	
Business Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>	Date Submitted <b>20090619</b>	
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor 		

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft) <b>30.47</b> Pumping rate (l/min / GPM) <b>54.6</b> Duration of pumping <b>1</b> hrs + <b> </b> min Final water level end of pumping (m/ft) <b>15.90</b> If flowing give rate (l/min / GPM)  Recommended pump depth (m/ft) <b>22.85</b> Recommended pump rate (l/min / GPM) <b>45.5</b> Well production (l/min / GPM)  Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	<b>4.32</b>		
	1	<b>6.03</b>	1	<b>13.08</b>
	2	<b>7.12</b>	2	<b>11.04</b>
	3	<b>8.20</b>	3	<b>9.35</b>
	4	<b>8.83</b>	4	<b>7.70</b>
	5	<b>9.48</b>	5	<b>6.70</b>
10	<b>11.80</b>	10	<b>4.31</b>	
15	<b>13.20</b>	15		
20	<b>14.19</b>	20		
25	<b>14.87</b>	25		
30	<b>15.23</b>	30		
40	<b>15.66</b>	40		
50	<b>15.83</b>	50		
60	<b>15.90</b>	60		

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments:	

Ministry Use Only	
Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered <b>20090618</b> Date Work Completed <b>20090617</b>
Audit No. <b>2095261</b>	Received <b>AUG 10 2009</b>



Measurements recorded in:  Metric  Imperial

**Well Owner's Information**

First Name	Last Name / Organization <b>Talos Custom Homes</b>	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <b>5509 Canotek Road, Unit 1</b>	Municipality <b>Ottawa</b>	Province <b>Ontario</b>	Postal Code <b>K1J 9J8</b>
		Telephone No. (inc. area code) <b>613 747 3993</b>	

**Well Location**

Address of Well Location (Street Number/Name) <b>Lot 24, Richmond Forest</b>	Township <b>Goulbourn</b>	Lot <b>25</b>	Concession <b>3</b>
County/District/Municipality <b>Ottawa Carleton</b>	City/Town/Village <b>Richmond</b>	Province <b>Ontario</b>	Postal Code
UTM Coordinates Zone Easting Northing <b>NAD 83 18 435348 5004486</b>	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Soil	Stones	Packed	0	6.09
Gray	Limestone		Layered & Broken	6.09	7.61
Gray	Limestone		Medium	7.61	25.90
Gray	Limestone		Broken Layers	25.90	29.86

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )	
9.14	0	Grouted Bentonite Slurry	.52m <sup>3</sup>

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	4.09		
Pump intake set at (m/ft)		1	5.33	1	5.06
Pumping rate (l/min / GPM)		2	5.80	2	4.53
Duration of pumping		3	5.93	3	4.34
1 hrs + min		4	6.19	4	4.25
Final water level end of pumping (m/ft)		5	6.27	5	4.19
6.60		10	6.47	10	4.10
If flowing give rate (l/min / GPM)		15	6.52	15	
Recommended pump depth (m/ft)		20	6.54	20	
22.85		25	6.55	25	
Recommended pump rate (l/min / GPM)		30	6.57	30	
45.5		40	6.59	40	
Well production (l/min / GPM)		50	6.60	50	
Disinfected?		60	6.60	60	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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

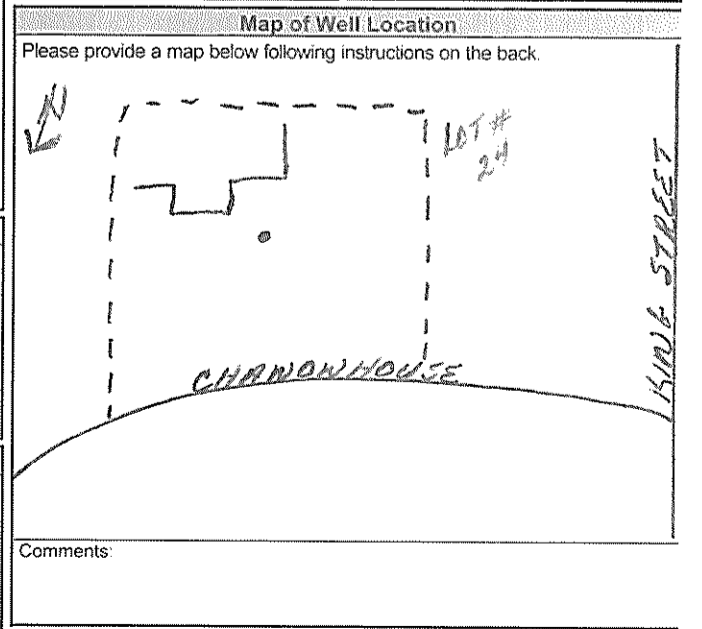
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+4.5	9.14	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
25.90	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	15.86
		9.14	15.23

Well Contractor and Well Technician Information			
Business Name of Well Contractor <b>Capital Water Supply Ltd.</b>	Well Contractor's Licence No. <b>1 5 5 8</b>		
Business Address (Street Number/Name) <b>Box 490</b>	Municipality <b>Stittsville</b>		
Province <b>Ontario</b>	Postal Code <b>K2S 1A6</b>	Business E-mail Address <b>office@capitalwater.ca</b>	

Well Contractor and Well Technician Information			
Business Telephone No. (inc. area code) <b>613 836 1766</b>	Name of Well Technician (Last Name, First Name) <b>Miller, Stephen</b>		
Well Technician's Licence No. <b>0 0 9 7</b>	Signature of Technician and/or Contractor	Date Submitted <b>20090612</b>	



Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>20090612</b>		Audit No. <b>2095268</b>	
		Date Work Completed <b>20090610</b>		<b>AUG 10 2009</b>	Received



Measurements recorded in:  Metric  Imperial

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Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

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

Results of Well Yield Testing table with columns: Draw Down, Recovery, Time (min), Water Level (m/ft)

Method of Construction, Well Use (Public, Commercial, Domestic, etc.)

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

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To

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

Well Contractor and Well Technician Information form with fields for Business Name, Licence No., Address, Municipality, Province, Postal Code, Business E-mail Address, Name of Well Technician

Map of Well Location section with a hand-drawn map showing 'LOT #23' and 'CHANDON HOUSE' near 'KING STREET'.

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Well owner's information package delivered (Yes/No)

Ministry Use Only section with fields for Audit No., Date Submitted, Received



Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name Last Name / Organization E-mail Address
Talos Custom Homes

Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (inc. area code)
5509 Canotek Road Ottawa Ontario K1J 9J8 613 747 3993

Well Location

Address of Well Location (Street Number/Name) Township Lot Concession
Lot 34 Richmond Forest Goulbourn 25 3

County/District/Municipality City/Town/Village Province Postal Code
Ottawa Carleton Richmond Ontario

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other
NAD 83 18 435406 5004642

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

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To. Rows include Sandy Clay, Clay, Limestone, Loose, Stones, Medium.

Annular Space table with 4 columns: Depth Set at (m/ft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Row: 9.44 0 Grouted Bentonite Slurry 1.15m³

Method of Construction and Well Use tables. Method of Construction includes Rotary (Reverse) Air, Boring, Air percussion. Well Use includes Domestic, Municipal, Test Hole, etc.

Construction Record - Casing and Status of Well tables. Casing table includes Inside Diameter, Open Hole OR Material, Wall Thickness, Depth. Status of Well includes Water Supply, Replacement Well, etc.

Construction Record - Screen table with 5 columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (m/ft) From To.

Water Details and Hole Diameter tables. Water Details includes Water found at Depth, Kind of Water. Hole Diameter includes Depth (m/ft) From To, Diameter (cm/in).

Well Contractor and Well Technician Information table. Includes Business Name of Well Contractor (Capital Water Supply Ltd.), Well Contractor's Licence No., Business Address, Municipality (Stittsville), Province, Postal Code, Business E-mail Address, Name of Well Technician (Miller, Stephen), Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted.

Results of Well Yield Testing table. Includes After test of well yield, water was; Draw Down (Time, Water Level); Recovery (Time, Water Level); Pumping rate; Duration of pumping; Final water level end of pumping; Recommended pump depth; Recommended pump rate; Well production; Disinfected?.

Map of Well Location section. Includes a hand-drawn map showing Lot #34, House #46, Channon House, Richmond Forest, and Kirk Street. Text: 'Please provide a map below following instructions on the back.'

Ministry Use Only table. Includes Well owner's information package delivered (Yes/No), Date Package Delivered (2009-11-26), Date Work Completed (2009-11-25), Audit No. (2101774), Received (FEB 16 2010).





Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Municipal Plan and Sublot Number

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space: Depth Set at, Type of Sealant Used, Volume Placed

Method of Construction, Well Use: Cable Tool, Rotary, Boring, Air percussion, Public, Commercial, Domestic, etc.

Construction Record - Casing: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Construction Record - Screen: Outside Diameter, Material, Slot No., Depth, Status of Well

Water Details, Hole Diameter: Water found at Depth, Kind of Water, Depth, Diameter

Well Contractor and Well Technician Information: Business Name, Licence No., Address, Municipality, Province, Postal Code, Business E-mail Address, Name of Well Technician

Results of Well Yield Testing: After test of well yield, water was, Draw Down, Recovery, Pumping rate, Duration of pumping, Final water level end of pumping, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Map of Well Location: Please provide a map below following instructions on the back. Includes handwritten map of Lot #16, Richmond Forest, and Channon House Dr.

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

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



Well Owner's Information

First Name	Last Name / Organization Talos Custom Homes	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 5509 Canotek Road, Unit 1	Municipality Ottawa	Province Ontario	Postal Code K1J 9J8
		Telephone No. (inc. area code) 613 747 3993	

Well Location

Address of Well Location (Street Number/Name) Lot 15 - Richmond Forest	Township Goulbourn	Lot 25	Concession 3
County/District/Municipality Ottawa Carleton	City/Town/Village Richmond	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing NAD 83 18 435389 5004607	Municipal Plan and Sublot Number	Other	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
Brown	Clay	Stones		0	4.26
Gray	Limestone		Layered	4.26	6.09
Gray	Limestone		Medium	6.09	45.10

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	
From	To		
7.31	0	Grouted Bentonite Slurry	.63m³

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	3.80		
Pump intake set at (m/ft) 30.47		1	4.14	1	3.86
Pumping rate (l/min / GPM) 54.6		2	4.18	2	3.82
Duration of pumping 1 hrs + min		3	4.19	3	
Final water level end of pumping (m/ft) 4.25		4	4.20	4	
If flowing give rate (l/min / GPM)		5	4.21	5	
Recommended pump depth (m/ft) 22.85		10	4.24	10	
Recommended pump rate (l/min / GPM) 45.5		15	4.24	15	
Well production (l/min / GPM)		20	4.24	20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25	4.23	25	
		30	4.24	30	
		40	4.24	40	
		50	4.23	50	
		60	4.24	60	

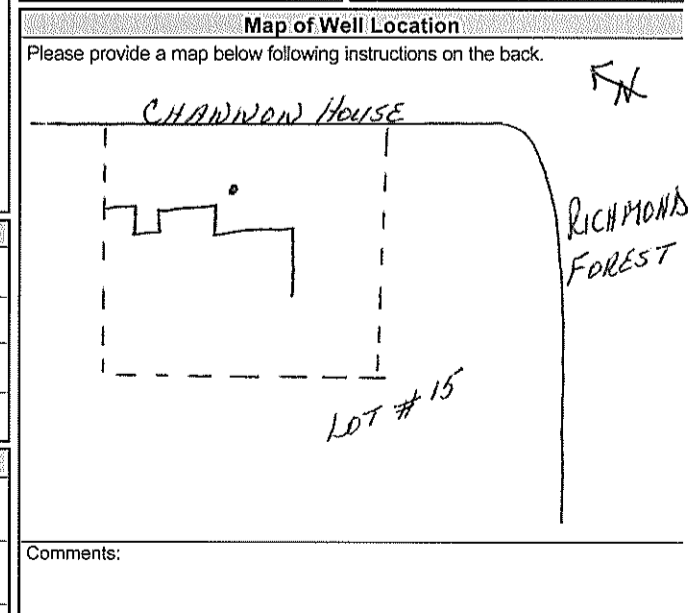
Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input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

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+ .45	7.31	

Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify _____
			From	To	

Water Details		Hole Diameter		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)	
From	To	From	To	
43.58		0	7.31	15.86
		7.31	45.10	15.07

Well Contractor and Well Technician Information			
Business Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1 5 5 8		
Business Address (Street Number/Name) Box 490	Municipality Stittsville		
Province Ontario	Postal Code K2S 1A6	Business E-mail Address office@capitalwater.ca	
Bus. Telephone No. (inc. area code) 613 836 1766	Name of Well Technician (Last Name, First Name) Miller, Stephen		
Well Technician's Licence No. 0 0 9 7	Signature of Technician and/or Contractor	Date Submitted 2009/03/0	



Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2 0 0 9 1 0 3 0	2 0 0 9 1 0 2 8	Audit No. Z101753	Received FEB 16 2010



Measurements recorded in:  Metric  Imperial

A076840

A076840

Page \_\_\_ of \_\_\_

Well Owner's Information

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

Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (inc. area code)

5509 Canotek Road, unit 1 Ottawa Ontario K1J 9J8 613 747 3993

Well Location

Address of Well Location (Street Number/Name) Township Lot Concession

Lot 13 - Chanonhouse Dr. Goulbourn 25 3

County/District/Municipality City/Town/Village Province Postal Code

Ottawa Carleton Richmond Ontario

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 18 435427 5004590

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

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

Annular Space

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

7.31 0 Grouted Bentonite Slurry .84m³

Method of Construction Well Use

Method of Construction: Rotary (Reverse) Air. Well Use: Domestic.

Construction Record - Casing

Inside Diameter (cm/in) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness (cm/in) Depth (m/ft) From To

15.86 Steel .48 +.45 7.31

Construction Record - Screen

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

15.86 Steel .48 +.45 7.31

Water Details Hole Diameter

Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) From To Diameter (cm/in)

34.4 (m/ft) Gas Other, specify 0 7.31 15.86

7.31 37.48 15.23

Well Contractor and Well Technician Information

Business Name of Well Contractor Well Contractor's Licence No.

Capital Water Supply Ltd. 1 5 5 8

Business Address (Street Number/Name) Municipality

Box 490 Stittsville

Province Postal Code Business E-mail Address

Ontario K2S 1A6 office@capitalwater.ca

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

613 836 1766 Miller, Stephen

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

0 0 9 7 [Signature] 2009 08 12

Results of Well Yield Testing

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

If pumping discontinued, give reason: Static Level 3.17

Pump intake set at (m/ft) 18.28

Pumping rate (l/min / GPM) 54.6

Duration of pumping 1 hrs + min

Final water level end of pumping (m/ft) 4.72

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft) 18.28

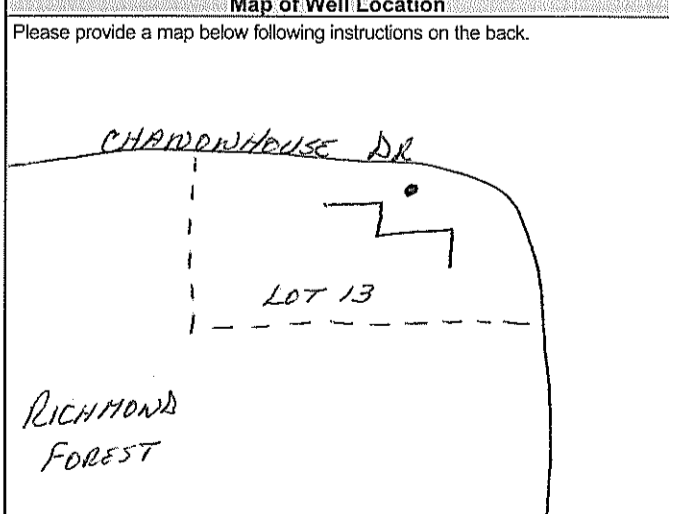
Recommended pump rate (l/min / GPM) 45.5

Well production (l/min / GPM)

Disinfected?  Yes  No

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered  Yes  No

Date Package Delivered 2009 08 07 Date Work Completed 2009 08 04

Ministry Use Only Audit No. 2101702

Received FEB 16 2010





Measurements recorded in:  Metric  Imperial

A076861 **A076861**

Page \_\_\_\_ of \_\_\_\_

Well Owner's Information

First Name, Last Name / Organization (Talos Custom Homes), E-mail Address, Mailing Address (5509 Canotek Road, Unit 1), Municipality (Ottawa), Province (Ontario), Postal Code (K1J 9J8), Telephone No. (613 747 3993)

Well Location

Address of Well Location (Lot 21, Chanonhouse Drive), Township (Goulbourn), Lot (3), Concession (25), City/Town/Village (Richmond), Province (Ontario), UTM Coordinates (NAD 83 18 435312 5004439)

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

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth From, Depth To. Rows include Soil/Stones/Packed and Limestone/Medium.

Annular Space table with columns: Depth Set at (m/ft) From/To, Type of Sealant Used, Volume Placed. Row: 7.92 to 0, Grouted Bentonite Slurry, .63m³.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate (54.6 GPM) and static level (3.90).

Method of Construction and Well Use checkboxes. Method: Rotary (Reverse) Air. Well Use: Domestic.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From/To, Status of Well. Row: 15.86, Steel, .48, +.45 to 7.92.

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

Water Details and Hole Diameter tables. Water found at depths 27.43, 43.27, and (m/ft). Hole diameters at 0-7.92 and 7.92-45.10.

Well Contractor and Well Technician Information. Contractor: Capital Water Supply Ltd., Licence No. 1558. Technician: Miller, Stephen, Licence No. 0097.

Map of Well Location showing Lot #21, Chanonhouse Dr. 1, Richmond Forest, and King Street.

Signature and Date Submitted fields. Signature of Stephen Miller, Date: 20090610.

Ministry Use Only section with Audit No. 2095270, Date Work Completed 20090608, and Received date FEB 16 2010.



Well Owner's Information

Address of Well Location (Street Number/Name) **3617 McBEAN ST** Township **GOULBOURN**

County/District/Municipality **OTTAWA CARLETON** City/Town/Village **RICHMOND** Province **Ontario** Postal Code **K0A2Z0**

UTM Coordinates Zone Easting Northing **NAD 83 18 434743 5004180** Municipal Plan and Sublot Number Other

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
GREY	CLAY	STONES	PACKED	0	1.5

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
0.05 / 1.45	BENTONITE	0.36 m <sup>3</sup>

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
15.86	STEEL	0.48	1.3	1.4	
10.0	STEEL	0.48	1.4	UNKN	

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

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor **H.O. WRIGHT & SONS LTD** Well Contractor's Licence No. **6357**

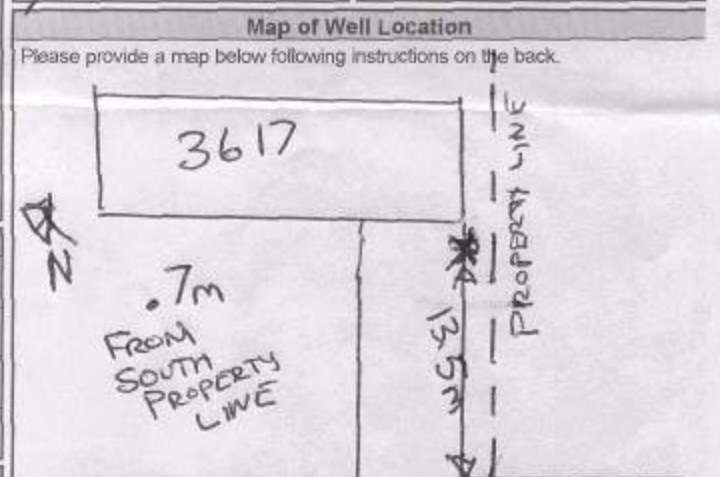
Business Address (Street Number/Name) **2383 CHURCH ST NORTH** Municipality **Gower**

Province **ON** Postal Code **K0A2T0** Business E-mail Address

Bus. Telephone No. (inc. area code) **613 489 3372** Name of Well Technician (Last Name, First Name) **WILSON, SCOTT**

Well Technician's Licence No. **1444** Signature of Technician and/or Contractor *Scott Wilson* Date Submitted **2010/11/29**

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Static Level	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
60		60		



Comments: **WELL EXTENSION TO ABOVE GRADE**

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D	Ministry Use Only Audit No. <b>z123102</b> Received <b>DEC 08 2010</b>
	Date Work Completed <b>2010/11/29</b>	



Well Owner's Information

Address of Well Location (Street Number/Name) **3619 McBEAN ST** Township **GOULBOURN**  
 County/District/Municipality **OTTAWA CARLETON** City/Town/Village **RICHMOND** Province **Ontario** Postal Code **K0A 2Z0**  
 UTM Coordinates Zone Easting Northing **NAD 83 18 43 49 45 5004177** Municipal Plan and Sublot Number Other

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
GREY	CLAY	STONES	PACKED	0	1.3

**Annular Space**

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From: .05 To: 1.3	BENTONITE	.25 m³

**Results of Well Yield Testing**

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

**Method of Construction**

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
15.86	STEEL	.48	45	1.3	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input checked="" type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
12.7	STEEL	.48	1.3	UNKNOWN	

**Construction Record - Screen**

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

**Water Details**

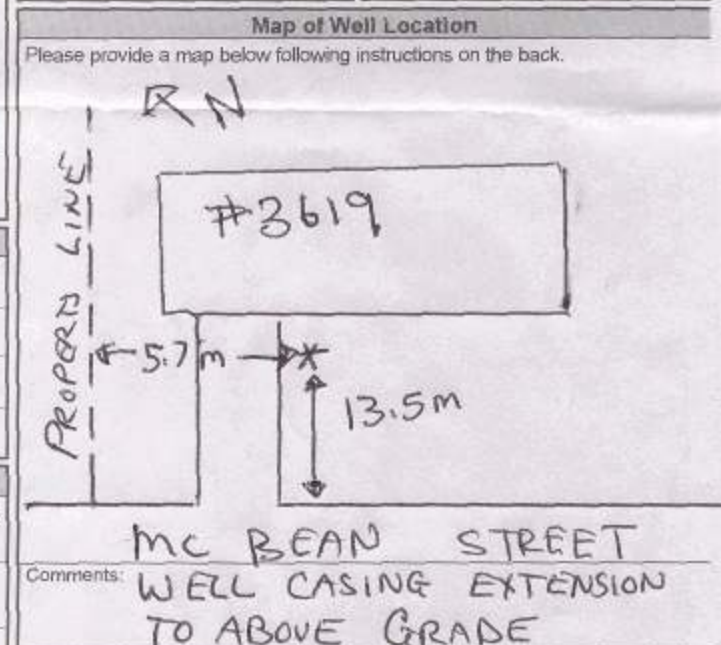
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested
	<input type="checkbox"/> Gas <input type="checkbox"/> Other,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

**Hole Diameter**

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **H.O. WRIGHT & SONS LTD** Well Contractor's Licence No.: **63517**  
 Business Address (Street Number/Name): **2383 CHURCH ST NORTH** Municipality: **GOWER**  
 Province: **ON** Postal Code: **K0A 2T0** Business E-mail Address:



Bus. Telephone No. (inc. area code): **613 489 3372** Name of Well Technician (Last Name, First Name): **PRATT GEORGE**  
 Well Technician's Licence No.: **1445** Signature of Technician and/or Contractor: *George Pratt* Date Submitted: **2010/11/29**

**Ministry Use Only**

Well owner's information package delivered:  Yes  No  
 Date Package Delivered: **2010/11/29**  
 Date Work Completed: **2010/11/29**  
 Audit No.: **2123103**  
 Received: **DEC 08 2010**



Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name) **86 Cockburn St** Township \_\_\_\_\_ Lot \_\_\_\_\_ Concession \_\_\_\_\_  
 County/District/Municipality **OTTAWA** City/Town/Village **RICHMOND** Province **Ontario** Postal Code **K0A 2Z0**  
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other  
 NAD 83 **18 434995 5004334**

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	<b>* RAISE WELL CASING ABOVE GROUND, AS PER CODE REQUIREMENTS, WHILE DOING PUMP WORK AND INSTALL VERMON PROOF WELL CAP.</b>			
	<b>* PUMP TEST NOT PERFORMED DURING REPAIR. REFER TO ORIGINAL WELL RECORD FOR THIS INFORMATION</b>			

**Annular Space**

Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
	<b>N/A</b>	

**Method of Construction**  Cable Tool  Rotary (Conventional)  Rotary (Reverse)  Boring  Air percussion  Other, specify

**Well Use**  Public  Domestic  Livestock  Irrigation  Industrial  Other, specify

Commercial  Municipal  Test Hole  Cooling & Air Conditioning  Not used  Dewatering  Monitoring

**Construction Record - Casing**

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

**Construction Record - Screen**

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

**Water Details**

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

**Hole Diameter**

Depth (m/ft)	Diameter (cm/in)
	<b>N/A</b>

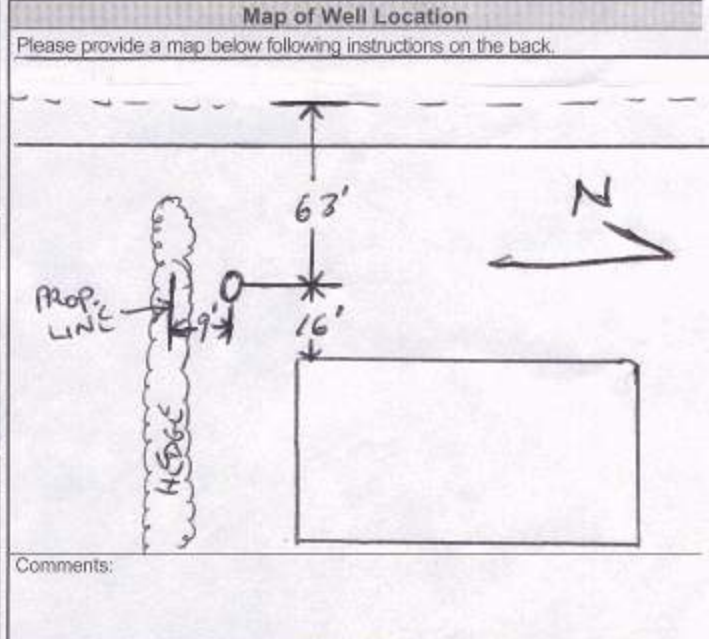
**Well Contractor and Well Technician Information**

Business Name of Well Contractor: **C+N ELECTRIC LTD** Well Contractor's Licence No.: **6364**  
 Business Address (Street Number/Name): **5640 MANOTICK MAW ST.** Municipality: **OTTAWA**  
 Province: **ON** Postal Code: **K4M1B3** Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): **6136923284** Name of Well Technician (Last Name, First Name): **FORREST, LESLIE**  
 Well Technician's Licence No.: **2876** Signature of Technician and/or Contractor: \_\_\_\_\_ Date Submitted: **20110204**

**Results of Well Yield Testing**

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



**Well owner's information package delivered**  Yes  No

Date Package Delivered: **20110124**

**Ministry Use Only**

Audit No.: **Z109048**

Received: **FEB 07 2011**



Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name) 91 King St			Township		Lot	Concession	
County/District/Municipality Ottawa carleton			City/Town/Village Richmond		Province Ontario		Postal Code
UTM Coordinates	Zone	Easting	Northing		Municipal Plan and Sublot Number		Other
NAD	83	184351325	004347				

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	* Raise well casing above ground, as per code requirements, while doing pump work and installing Vermon Proof well cap.			

**Annular Space**

Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
N/A		

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Diamond <input type="checkbox"/> Rotary (Conventional) <input checked="" type="checkbox"/> Jetting <input type="checkbox"/> Rotary (Reverse) <input checked="" type="checkbox"/> Driving <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Digging <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Dewatering <input type="checkbox"/> Livestock <input type="checkbox"/> Test Hole <input type="checkbox"/> Monitoring <input type="checkbox"/> Irrigation <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify

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

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

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

**Well Contractor and Well Technician Information**

Business Name of Well Contractor: \_\_\_\_\_ Well Contractor's Licence No.: 6364

Business Address (Street Number/Name): 5640 Manotick Main St Municipality: Ottawa

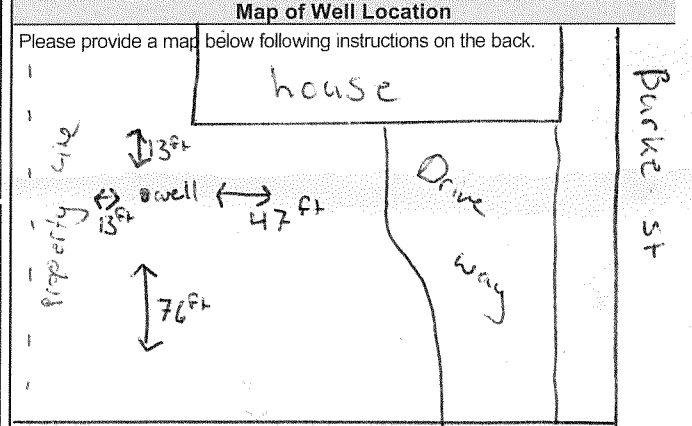
Province: Ont Postal Code: K4M1B3 Business E-mail Address: \_\_\_\_\_

Bus. Telephone No. (inc. area code): 6136923284 Name of Well Technician (Last Name, First Name): Sadler Ron

Well Technician's Licence No.: T637 Signature of Technician and/or Contractor: [Signature] Date Submitted: [Date]

**Results of Well Yield Testing**

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping hrs + min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	



Comments: \_\_\_\_\_

Well owner's information package delivered:  Yes  No

Date Package Delivered: YYY Y M M D D  
Date Work Completed: 20121213

**Ministry Use Only**

Audit No.: Z109063  
JAN 04 2013  
Received

**Tag #: A 236124**

Measurements recorded in:  Metric  Imperial

Address of Well Location (Street Number/Name): **102 KWO STREET**

Township: \_\_\_\_\_ Lot: \_\_\_\_\_ Concession: \_\_\_\_\_

County/District/Municipality: \_\_\_\_\_ City/Town/Village: **RICHMOND** Province: **Ontario** Postal Code: **K0A2Z0**

UTM Coordinates Zone: **18** Easting: **0435213** Northing: **5004323** Municipal Plan and Sublot Number: \_\_\_\_\_ Other: \_\_\_\_\_

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
<b>MAINTENANCE ONLY;</b>					
<b>NO EXISTING AB</b>					

**Annular Space**

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m <sup>3</sup> /ft <sup>3</sup> )
<b>/</b>			

**Results of Well Yield Testing**

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:  Pump intake set at (m/ft): <b>75'</b> Pumping rate (l/min / GPM): _____ Duration of pumping: _____ hrs + _____ min Final water level end of pumping (m/ft): _____ If flowing give rate (l/min / GPM): _____ Recommended pump depth (m/ft): _____ Recommended pump rate (l/min / GPM): _____ Well production (l/min / GPM): _____ Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	<b>11'</b>		
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

**Method of Construction**

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

**Well Use**

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

**Construction Record - Casing**

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
<b>6 1/4"</b>	<b>STEEL</b>	<b>3/16"</b>	<b>+1'</b>		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

**Construction Record - Screen**

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

**Water Details**

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

**Well Contractor and Well Technician Information**

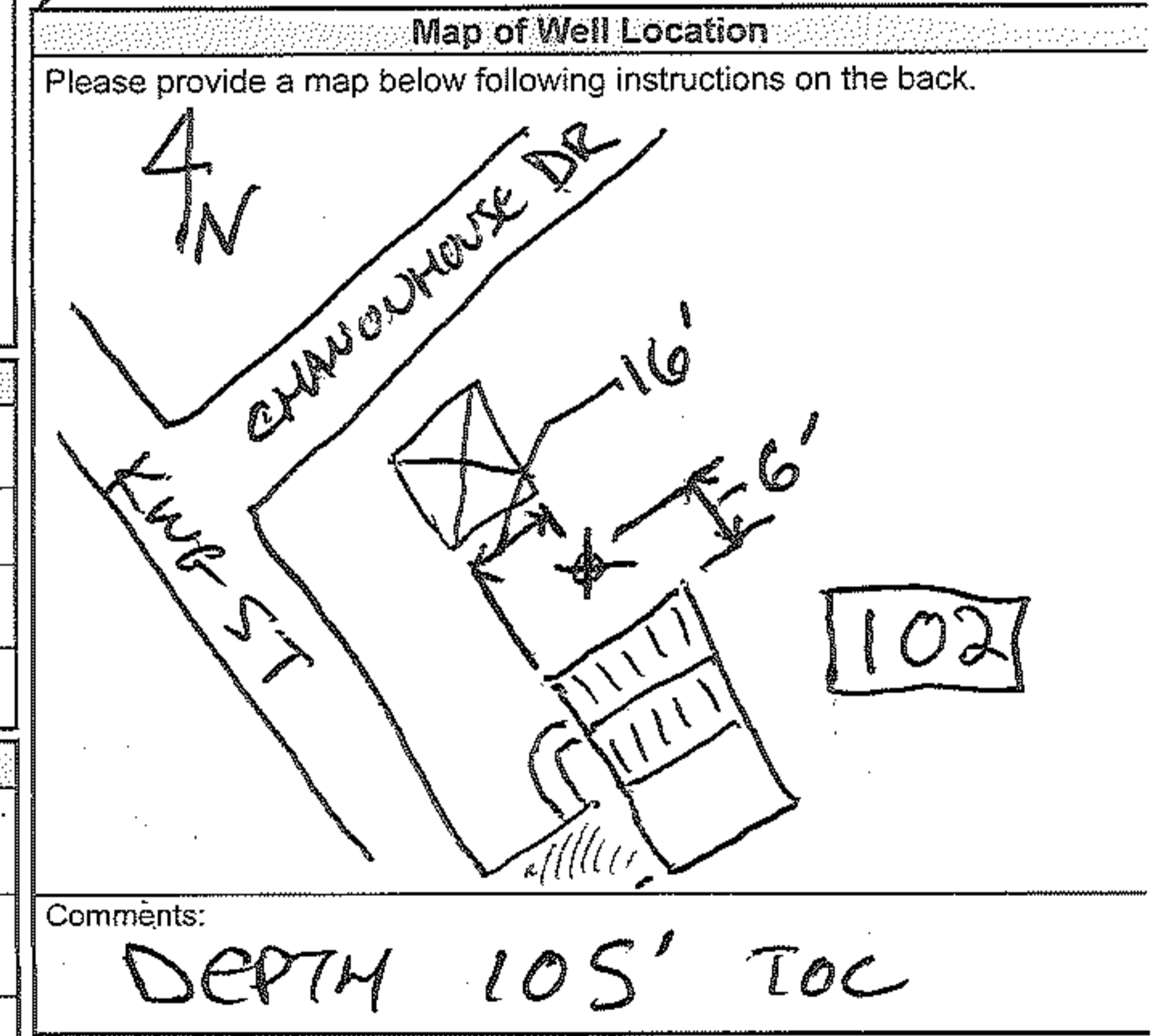
Business Name of Well Contractor: **THE PUMP HOUSE** Well Contractor's Licence No.: **6378**

Business Address (Street Number/Name): **838 CLYDE AVENUE** Municipality: **OTTAWA**

Province: **ONT** Postal Code: **K1Z5A2** Business E-mail Address: **INFO@THEPUMPHOUSE.CA**

Bus. Telephone No. (inc. area code): **6137224226** Name of Well Technician (Last Name, First Name): **MCINTYRE, DJ**

Well Technician's Licence No.: **3853** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **20180605**



Comments: **DEPTH 105' TOC**

Well owner's information package delivered:  Yes  No

Date Package Delivered: **20180605** Date Work Completed: **20180605**

**Ministry Use Only**

Audit No.: **2271821**

Received: **JUN 14 2018**

**APPENDIX E**  
**Aquifer Test Analysis**





LRL Associates Ltd.  
5430 Canotek Road  
Ottawa, ON

**Pumping Test - Water Level Data**

Project: 5969 Ottawa Street Hydrogeological Assessment

Number: 210341

Client: Al Roberts

Location: 5969 Ottawa Street, Richmond, ON	Pumping Test: 6-Hr Pump Test	Pumping Well: Well 1
Test Conducted by: AK	Test Date: 2021-08-11	Discharge: variable, average rate 0.666 [l/s]
Observation Well: Well 1	Static Water Level [m]: 2.96	Radial Distance to PW [m]: -

	Time [min]	Water Level [m]	Drawdown [m]
1	0	2.96	0.00
2	0.5	3.47	0.51
3	1	3.83	0.87
4	1.5	4.20	1.24
5	2	4.39	1.43
6	2.5	4.52	1.56
7	3	4.73	1.77
8	3.5	4.76	1.80
9	4	4.79	1.83
10	4.5	4.81	1.85
11	5	4.84	1.88
12	6	4.87	1.91
13	7	4.89	1.93
14	8	4.91	1.95
15	9	4.93	1.97
16	10	4.94	1.98
17	20	4.99	2.03
18	30	5.05	2.09
19	60	5.07	2.11
20	90	5.08	2.12
21	120	5.11	2.15
22	150	5.11	2.15
23	180	5.11	2.15
24	240	5.12	2.16
25	300	5.13	2.17
26	360	5.13	2.17
27	382	5.13	2.17
28	382.5	4.43	1.47
29	383	3.92	0.96
30	383.5	3.67	0.71
31	384	3.45	0.49
32	384.5	3.34	0.38
33	385	3.31	0.35
34	385.5	3.30	0.34
35	386	3.28	0.32
36	386.5	3.26	0.30
37	387	3.25	0.29
38	388	3.24	0.28
39	389	3.23	0.27
40	390	3.21	0.25
41	391	3.20	0.24
42	392	3.19	0.23
43	402	3.12	0.16
44	412	3.09	0.13
45	442	3.05	0.09



LRL Associates Ltd.  
5430 Canotek Road  
Ottawa, ON

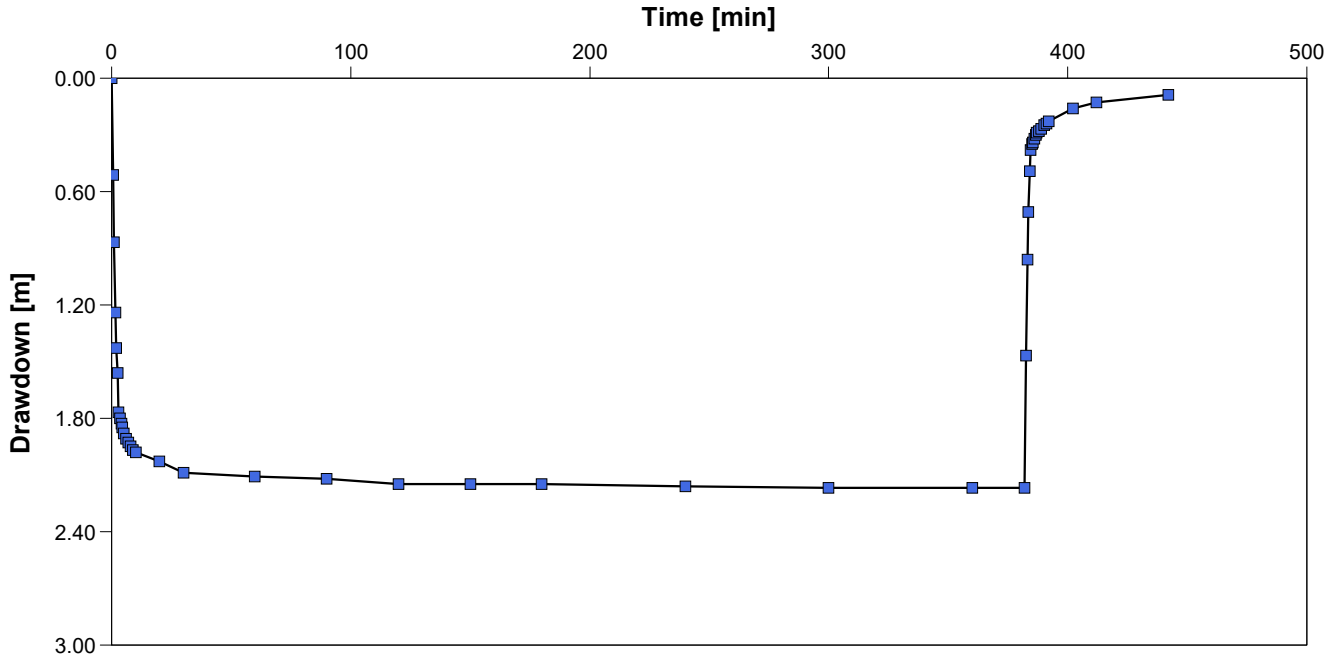
**Pumping Test Analysis Report**

Project: 5969 Ottawa Street Hydrogeological Assessment

Number: 210341

Client: Al Roberts

Location: 5969 Ottawa Street, Richmond, ON	Pumping Test: 6-Hr Pump Test	Pumping Well: Well 1
Test Conducted by: AK		Test Date: 2021-08-11
Analysis Performed by: AW	Time-Drawdown	Analysis Date: 2021-09-13
Aquifer Thickness:	Discharge: variable, average rate 0.666 [l/s]	





LRL Associates Ltd.  
5430 Canotek Road  
Ottawa, ON

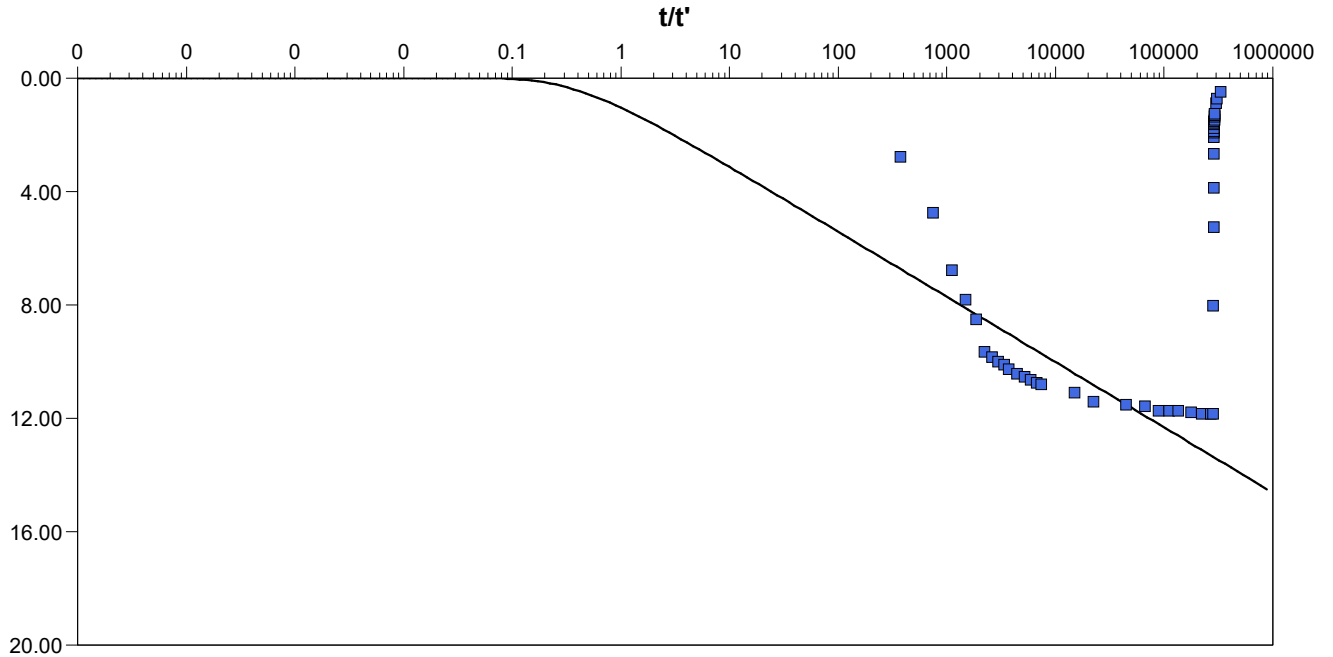
**Pumping Test Analysis Report**

Project: 5969 Ottawa Street Hydrogeological Assessment

Number: 210341

Client: Al Roberts

Location: 5969 Ottawa Street, Richmond, ON	Pumping Test: 6-Hr Pump Test	Pumping Well: Well 1
Test Conducted by: AK		Test Date: 2021-08-11
Analysis Performed by: AW	Theis	Analysis Date: 2021-09-13
Aquifer Thickness:	Discharge: variable, average rate 0.666 [l/s]	



Calculation using Theis

Observation Well	Transmissivity [m <sup>2</sup> /d]	Storage coefficient	Radial Distance to PW [m]
Well 1	$2.50 \times 10^1$	$4.39 \times 10^{-3}$	0.07



LRL Associates Ltd.  
5430 Canotek Road  
Ottawa, ON

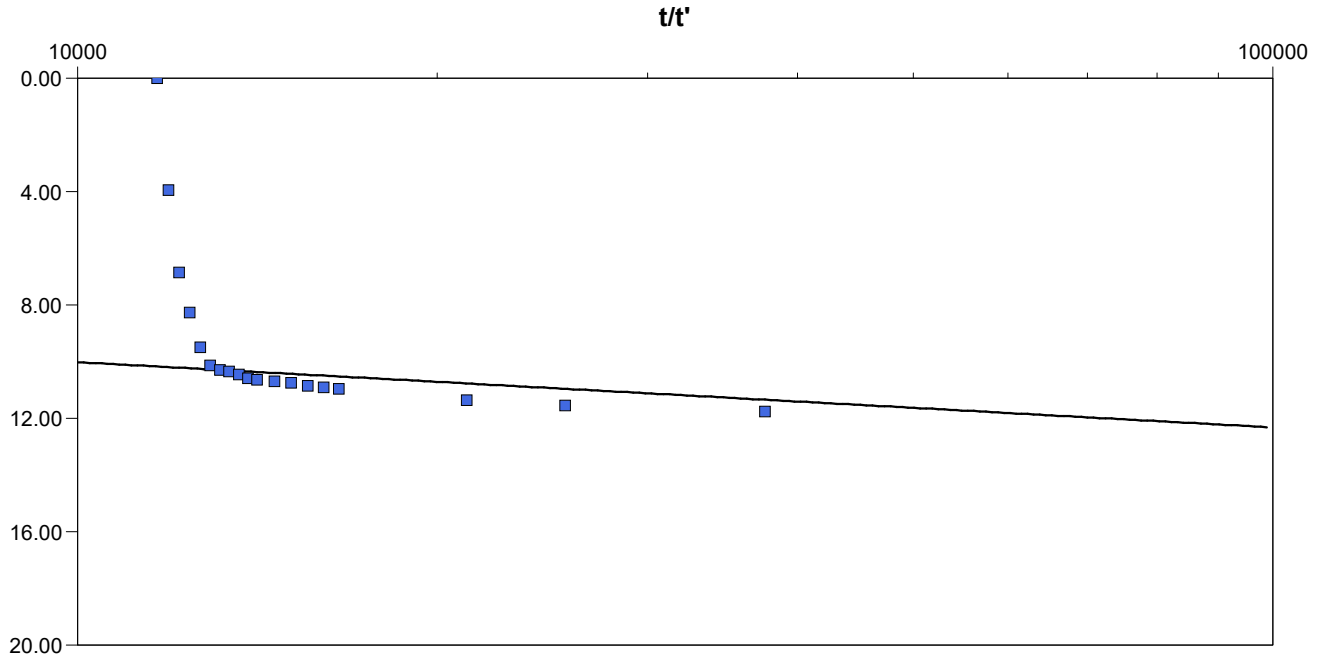
**Pumping Test Analysis Report**

Project: 5969 Ottawa Street Hydrogeological Assessment

Number: 210341

Client: Al Roberts

Location: 5969 Ottawa Street, Richmond, ON		Pumping Test: 6-Hr Pump Test	Pumping Well: Well 1
Test Conducted by: AK		Test Date: 2021-08-11	
Analysis Performed by:	Agarwal + Theis	Analysis Date: 2021-09-13	
Aquifer Thickness:	Discharge: variable, average rate 0.666 [l/s]		



Calculation using AGARWAL + Theis

Observation Well	Transmissivity [m <sup>2</sup> /d]	Storage coefficient	Radial Distance to PW [m]
Well 1	2.59 × 10 <sup>1</sup>	6.00 × 10 <sup>-3</sup>	0.07





LRL Associates Ltd.  
5430 Canotek Road  
Ottawa, ON

**Pumping Test Analysis Report**

Project: 5969 Ottawa Street Hydrogeological Assessment

Number: 210341

Client: Al Roberts

Location: 5969 Ottawa Street, Richmond, ON		Pumping Test: 6-Hr Pump Test		Pumping Well: Well 1			
Test Conducted by: AK				Test Date: 2021-08-11			
Aquifer Thickness:		Discharge: variable, average rate 0.666 [l/s]					
	Analysis Name	Analysis Performed by	Analysis Date	Method name	Well	T [m <sup>2</sup> /d]	S
1	Theis	AW	2021-09-13	Theis	Well 1	$2.50 \times 10^1$	$4.39 \times 10^{-3}$
2	Agarwal + Theis		2021-09-13	AGARWAL + Theis	Well 1	$2.59 \times 10^1$	$6.00 \times 10^{-3}$