

March 13, 2020 (Revised May 5, 2022)

Our File Ref.: 170132.04

The Hindu Temple of Ottawa Carleton Inc.

4835 Bank Street

Ottawa, Ontario K1X 1G6

Attention: Mr. Harish Gupta

Subject: Terrain Analysis and Private Sewage Disposal System Impact Assessment

- Proposed Assembly Hall

The Hindu Heritage Centre of Ottawa Carleton, 4835 Bank Street, Ottawa,

Ontario

Dear Mr. Gupta,

LRL Associates Ltd. (LRL) has conducted a Terrain Analysis and Private Sewage Disposal System Impact Study for the proposed Hindu Heritage Centre of Ottawa Carleton Assembly Hall to be constructed on the property located at 4835 Bank Street, Ottawa, Ontario (herein referred to as the "Site"). It is understood that it is proposed that a 1,593 m² assembly hall be constructed at the eastern portion of the existing developed property which will have an available capacity of approximately 500 individuals, increasing the total occupancy of the Site to approximately 750.

The proposed assembly hall will be supplied by municipal water supply and a private septic as is the existing development on the Site.

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

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

The proposed sewage system for the proposed assembly hall building will be designed for approximately 4.0 m³/day of wastewater, as outlined below. The existing building has two (2) existing sewage systems, each designed for 3,750 L/day, that operate independently of each other. Based on the capacity of the existing building of 250 persons and no food services/kitchen, and three (3) existing single resident apartment units, the sewage demand of the existing building has been reassessed to 2.8 m³/day. An application has been made to the Ottawa Septic System Office (OSSO) under separate cover to permit the change to the proposed design flow, and a response is currently pending. The response from the OSSO has been received and the approved permit is included in **Appendix H**. The OSSO has approved the upgrade of the existing sewage disposal system to include one (1) unit with a daily capacity of 4,825 L/day (4.8 m³/day), rather than the current two (2) 3,750 L/day capacity installations.

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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). The Site is serviced by municipal water supply, however, neighbouring properties within 500 m of the Site were found to have records of supply wells present.

SITE AND AREA DESCRIPTION

The property is situated at the southern extent of the City of Ottawa at 4385 Bank Street. The property is legally described as Part Lot 22, Concession 5RF Gloucester Parts 1 & 2, 5R3156. The location of the subject site is shown in **Figure 1**. The Site's area is approximately 3.8 hectares (9.4 acres). The property is currently occupied by the Hindu Heritage Centre of Ottawa Carleton. The footprints of the existing temple building and garage are approximately 1,168 m² and 105 m², respectively. The existing temple is located at the western extent of the Site with the associated septic systems to the north and south of the temple. Based on the previously prepared Use Permit, dated December 5, 1985, issued by the MECP, and associated application, the existing sewage disposal system includes two (2) septic systems: one (1) to service the existing kitchen and washrooms and one (1) to service the remainder of the existing temple building. Each system was originally designed to handle the entire demand for the building, based on an assumed total occupancy of 250 individuals and the use of 15 L/day per individual. The systems are operating independently of each other, with no cross-connections. Since no food services are present in the building and none are proposed, the use of 8 L/day per individual instead of 15 L/day per individual is deemed more appropriate. This yields a total daily sewage capacity for the existing building of 2,000 L/day. An application of this change has been made to and approved by the OSSO.

The neighbouring land use is as follows:

- Bank street, followed by light industrial/commercial business to the west; and
- Vacant/treed land to the north, south and east.

The topography of the land is generally flat with an approximate elevation of 97 m above mean sea level.

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

2 PROPOSED DEVELOPMENT

It is anticipated that an assembly hall will be constructed at the eastern portion of the Site with the associated septic system along the south of the proposed structure. The estimated proposed building footprint is 1,593 m². The proposed assembly hall is anticipated to include a dining area, a lobby and two (2) halls. No food services are proposed. The proposed development will be equipped with a full basement. Water supply will be obtained from municipal services.

It is proposed that 14 additional parking spaces be created, for a total of 181 parking spaces with a total parking and circulation area of 5,380 m².

In addition, it is proposed that the septic system for the existing temple building be consolidated into a single system with upgraded services.

The approximate preliminary proposed development plan is shown in Figure 3.

3 FIELDWORK

On May 8th, 2017, eight (8) test pits were advanced across the Site. The test pits were placed around the general perimeter of the Site so not to disrupt existing Site activities and services. The rationale for the test pits was to determine the general upper soil and perched water conditions. The test pits were advanced using a backhoe operated by a local contractor (Yelle Excavation, Ottawa) and under direct supervision by LRL field staff. The locations of the test pits are presented in **Figure 4** with the test pit logs included in **Appendix A**.

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An open tube piezometer was installed in select test pits (TP1, TP3, TP5 and TP7) to allow for the groundwater elevation measurement and sampling of the perched water found in the overburden, herein referred to as groundwater. Groundwater samples were collected on May 8th, 2017 following purging of approximately three (3) well volumes from each piezometer. Groundwater samples were collected from each of the piezometers with the exception of TP5 which was found to have insufficient water available for sampling (i.e., dry). Samples were collected on one (1) occasion and do not represent seasonal variability. The samples collected were submitted for laboratory analyses of select nitrogen species parameters. The laboratory Certificate of Analysis is included in **Appendix B**.

Soil samples from two (2) test pits were submitted to LRL's material testing laboratory for sieve and hydrometer analyses. The sieve and hydrometer analysis certificates are included in **Appendix C**.

A ground surface elevation survey was carried out at each test pit location to obtain the elevation of the test pit ground surface and the piezometer stick-up. These elevations would aid in determining the groundwater elevations across the Site. A locally referenced benchmark was established as the top of the east arm of the hydrant located along the west of the southern entrance to the Site. The benchmark was assigned an arbitrary elevation of 100.00 m. The elevations are summarized in **Table 1A** and are presented in the test pit logs included in **Appendix A**.

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 mapping¹ indicates that the overburden consists of till, plain with local relief less than 5 m. Bedrock mapping² indicates that the underlying bedrock consists of dolomite and limestone, of the Oxford Formation.

The test pits completed across the Site were found to have a thin layer of topsoil over fill material which extended to depths between 0.7 and 1.5 m thick. The fill was underlain with silty sand in TP1. The fill layer generally extended to bedrock refusal, encountered at depths from 0.8 to 2.1 m bgs. Waste debris was observed in the fill material in TP2, TP3 and TP5, which included metal, tire debris and asphalt.

¹ St-Onge, D.A. (compilation), 2009: Surficial geology, lower Ottawa valley, Ontario-Quebec; Geological Survey of Canada, Map 2140A, scale 1:125000

² Harrison, J.E., 1976. Geological Survey of Canada, Generalized Bedrock Geology, Ottawa-Hull, Ontario and Quebec, Map 1508A, scale 1:125000.

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A representative till sample collected during the test pitting activities (TP3-6) was submitted for sieve analysis. The till sample was reported to be 39% silt & clay, 40% sand, and 21% gravel. This represents fine silty sand. A second representative till sample collected (TP1-3) was submitted for hydrometer analysis. The sample was reported to be 22% clay, 64% silt, 9% sand and 5% gravel. This represents a silt loam. These results are presented in the sieve and hydrometer certificates of analysis that are included in **Appendix C** and are summarized in **Table 2**. As a conservative measure, sand will be used to define the soil infiltration factor and fine sandy loam will be used for moisture surplus.

A search was conducted of the available water well records from the MECP Water Well Record Department. The search by UTM coordinates covered a 500 m radius from the site. The search returned records for twenty-three (23) wells. The well records are included in **Appendix D** and their locations are presented in **Figure 5**.

Review of the records of the wells within 500 m of the site retrieved revealed that the wells are drilled wells extending to depths between 8.2 and 67.1 m. The well records show that that the geological conditions within 500 m are relatively similar, and consist generally of mixed till materials including sand, clay, gravel and boulders from 0 to 8.0 m. Unidentified soil conditions, "soil" was described in one (1) of the well records, as noted in the table below. The described bedrock conditions varied slightly between limestone, sandstone and occasionally shale. Bedrock starting depths also vary from 0.6 to 7.9 m.

The general subsurface conditions indicated in the well records within 500 m of the site are as follows:

MOE	Distance and	Depth	C	Overburden Deta	ails	Bedrock Details	Groundwater	Static Water	Type of
Well Number	Direction from Site (m)	(m)	Sand/ Fill (m)	Clay/ Loam (m)	Gravel/ Till (m)	Bedrock	Encountered (m)	Level (m)	water
1502181	210 N	14.0			0 – 6.4	6.4- 14.0 (Limestone)	14.0	2.4	Fresh
7112950	485 N	52.7		0 – 3.3		3.3 – 52.7 (Limestone)	51.5	4.7	Unspecified
1533566	385 N	67.1	0 – 2.1			2.1 – 29.8 (Sandstone) 29.8 - 38.7 (Limestone) 38.7 - 67.1 (Sandstone)	65.8	4.8	Unspecified
1531693	385 N	67.1			0 – 0.9	0.9 – 67.1 (Sandstone)	62.7	9.1	Fresh
1502249	370 N	25.9	0 – 1.2			1.2 – 25.9 (Sandstone)	25.2	4.5	Unspecified
1502248	330 N	29.9	0 – 0.3	0.3 – 1.8		1.8 – 29.9 (Sandstone)	24.3, 29.5	4.2	Fresh
1502246	335 N	24.4			0 – 1.5	1.5 – 24.4 (Sandstone)	9.1, 18.2, 30.1	1.5	Fresh
1517349	260 N	8.2	0 – 2.4			2.4 – 8.2 (Granite)	8.2	1.5	Fresh
1509925	215 N	19.2			0 – 3.9 "Boulders"	3.9 – 19.2 (Sandstone)	18.2	0.6	Fresh
1502175	360 NW	18.3	0 - 6.0			6.0 – 18.3 (Sandstone)	18.3	3.0	Fresh

MOE	Distance and	Depth	C	Overburden Deta	ails	Bedrock Details	Groundwater	Static Water	Type of
Well Number	Direction from Site (m)	(m)	Sand/ Fill (m)	Clay/ Loam (m)	Gravel/ Till (m)	Bedrock	Encountered (m)	Level (m)	water
1502176	250 NM	13.7		0 – 5.4		5.4 – 13.7 (Limestone)	13.7	1.8	Fresh
1502179	50 W	27.1			0 – 4.8	4.8- 7.62 (Limestone) 7.62 – 27.1 (Sandstone)	27.1	6.1	Fresh
1513436	100 SW	15.0		0 – 3.6 "Soil"	3.6 – 4.8	4.8 – 15 (Limestone)	14.6	4.3	Fresh
1502180	140 S	16.8		0 – 1.8 "Loam"		1.8 – 16.8 (Limestone)	16.8	1.8	Fresh
1502177	195 S	18.2	0 – 2.1		2.1 – 6.1	6.1 – 18.2 (Sandstone)	18.2	1.8	Fresh
1512375	230 S	22.5	0 – 2.7			2.7 – 22.5 (Sandstone)	22.5	3.6	Fresh
1512265	245 S	14.6		0 – 0.9		0.9 – 14.6 (Limestone)	2.4, 6.4, 10.3	1.2	Fresh
1514664	220 SW	15.2			0 – 3.9	3.9 – 9.1 (Shale) 9.1 – 38.1 (Limestone)	9.7, 16.7	6.1	Fresh
1516052	15 S	54.2	0 - 2.8		2.8 – 7.9	7.9 – 13.1 (Limestone) 13.1 – 54.4 (Sandstone)	53.3	9.1	Fresh
1502178	310 SW	15.2			0 – 5.4	5.4 – 15.2 (Limestone)	14.6	3.9	Fresh
1510717	400 S	15.8	0 – 1.8			1.8 – 15.8 (Limestone)	15.2	2.1	Fresh
1514840	370 S	41.1	0 – 0.9 "Topsoil"			0.9 – 41.1 (Limestone)	32.0	6.0	Fresh
1502250	370 S	24.1		0 – 0.6 "Loam"		0.6 – 19.8 (Sandstone) 19.8 – 24.0 (Granite)	18.2, 24.0	6.0	Fresh

4.1 Groundwater from Test Pits

Groundwater samples were collected following the test pit piezometers. Prior to collection of samples each piezometer was purged of approximately three (3) well volumes. Samples were collected on one (1) occasion and do not represent seasonal variability. The Site currently has two (2) operating septic disposal systems. Therefore, the water analytical results are not considered background.

Table 3 summarizes the water quality analysis from the test pit piezometers for nitrates, nitrites, ammonia and total kjeldahl nitrogen (TKN). The Laboratory Certificate of Analysis is included in **Appendix B**.

Nitrites were not detected (<0.05 mg/L) in any of the groundwater samples collected. Nitrate levels were reported to be 0.5 mg/L in TP3 and <0.1 mg/L in both TP1 and TP7, below the ODWS of 10

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mg/L. Ammonia was reported to be 0.28, 0.39 and 1.66 mg/L in TP1, TP3 and TP7, respectively. There are no set ODWS for ammonia.

TKN values were reported as 78.1, 65.3 and 131 mg/L in groundwater samples collected from TP1, TP3 and TP7, respectively. There are no set ODWS for TKN; however, based on the measured groundwater levels and corresponding elevations, the overburden groundwater flow direction is inferred to the east. TP7 is located along the extents of one of the existing septic beds on the property, and additionally, during the advancement of TP7, organic material including a tree stump was encountered. Both of which (septic and other organic decomposition) could contribute to the elevated levels of TKN across the central portion of the Site.

Groundwater Flow

Piezometers were installed in the test pits on May 8, 2017. Groundwater levels were measured in the piezometers on the same day as construction. It is likely that the water levels in the piezometers were not given sufficient time to stabilize prior to measurement. Therefore, the groundwater elevations measured in the test pits are not considered representative.

Four (4) monitoring wells were previously installed on September 23, 2019 as part of the Phase II ESA (Phase II Environmental Site Assessment, LRL, November 22, 2019). Groundwater elevations were measured on September 30, 2019. The groundwater elevations are summarized in Table 1B and the groundwater elevations and interpreted flow contours are presented in Figure 4. Based on the groundwater elevations measured on September 30, 2019 the groundwater flow is interpreted to the east-southeast.

The shallow bedrock flow is inferred to be toward the east to northeast based on review of "Map 3-16: Potentiometric Surface and Groundwater Flow in Shallow Bedrock, Source Protection Watershed Characterization Report Maps", by Raisin Region Conservation Authority and South Nation Conservation, dated April 30, 2008. The adjacent properties to the east and northeast are undeveloped. Therefore, based on the inferred groundwater flow direction the risk to bedrock groundwater users is considered low.

RECEIVING GROUNDWATER

The current and potential uses of the aquifers are identified below.

5.1 Overburden Groundwater

The overburden groundwater is unlikely to be used as a water supply based on the following:

- The Site and the adjacent properties are currently serviced by municipal water although water well records were identified in the area.
- Based on the well records reviewed and the shallow overburden conditions, no shallow wells were identified on the subject site or adjacent lands. Generally, the overburden conditions are not suitable for construction of a well.
- The buildings in this area are serviced by private septic systems; therefore, the current use of the overburden groundwater is for the attenuation of the septic system effluent.

5.2 Bedrock Aquifer

Twenty-three (23) well records were available for properties located within a 500 m radius of the Site. The records indicate that all twenty-three (23) wells tap into bedrock aguifer. Although it is LRL File: 170132.04 Page 7 of 13

our understanding that municipal water is available for the neighbouring properties, it is unknown at this time if these wells are still present or continue to be used for potable purposes.

A servicing map was provided by the City to LRL and is included in Figure 6 (attached). As shown, the majority of properties within 500 m are serviced with municipal water. The undeveloped property immediately south of the site with no civic address is currently un-serviced. It is expected that future development would likely occur along Bank Street on the west end of the property and would be serviced with municipal water. Various properties to the north (4805 Bank St. and 3216, 3236, 3238, 3250, 3270 Blais Road.) are un-serviced. The risk to these properties from the proposed septic system is considered low due to their distance from the Site (>200 m).

TERRAIN ANALYSIS AND SEPTIC DESIGN

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, with consideration taken regarding the existing installation.

The subsurface conditions indicated for the Site are considered suitable for a Class IV sewage disposal system with a partially to 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 Site for the construction of a third septic system in accordance with the OBC which will service the proposed assembly hall.

Existing Building - Proposed Septic Design 6.1

As previously mentioned, currently the existing temple building is serviced with two (2) sewage disposal systems located at the north and south sides of the buildings, respectively. Both are constructed with 9,000 L capacity fibreglass septic tanks and 8 runs of 13.3 m length piping. One (1) of the systems was intended to service the kitchen and washrooms and the other services the remainder of the existing temple building. However, it is understood that there is no longer a kitchen in the building. Since no food services are present in the building and none are proposed. the use of 8 L/day per individual instead of 15 L/day per individual is deemed more appropriate, as per the Ontario Building Code. Therefore, it is proposed that the use of 8 L/day (no kitchen) per individual instead of 15 L/day per individual is deemed more appropriate. This yields a daily required sewage capacity of 2,000 L/day. Furthermore, it is understood that three (3) single resident apartment units are present in the exiting building, each with a daily sewage capacity of 275 L/day. The total required sewage capacity for the existing building on the site is 2,825 L/day rather than the previous 3.750 L/day.

Due to the lower required capacity of the existing building, it is proposed that the northern septic for the temple building will be decommissioned, and the southern septic system will be upgraded to become the consolidated septic for the entire temple building. The proposed system is anticipated will be designed to account for a conservative flow capacity of 4,825 L/day and will have a treatment unit to reduce the concentrations of nitrates in the product prior to discharge into the shallow buried trench system. The daily flow expected has been calculated as follows: 250 persons capacity place of worship with no food preparation for 2.000 L/day: and three (3) apartments with one (1) occupant in each for 825 L/day, less than the design flow capacity.

This upgraded system will utilize the existing septic tank as a balancing tank (if acceptable conditions, and is confirmed to be a minimum of 9,000 L capacity), and a pressurized shallow buried trench bed with four (4) runs of 26.16 m at 2.0 m spacing between pipes. Design drawings

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for the proposed system for the existing temple building upgrades by Green Valley Environmental are provided as Appendix E. An approved application has been received from the OSSO for approval of this change to the existing disposal system on the Site, however revisions to the surface grades provided in the relevant drawings require revisions to correspond to other design aspects. Therefore, a revised permit request has been submitted to the OSSO, along with document Part 10.11 which requests approval for the daily sewage flow of the existing building to account for the reduced volumes. The previous response from the OSSO is included in Appendix H, however a revised version, once received will be submitted to the City of Ottawa for review under a separate cover. The proposed septic changes for the Site have been approved by the OSSO. The anticipated upgrades system will be a partially raised shallow buried trench system, with a design flow capacity of 4,825 L/day. Additional details and components of the system are as follows:

- Pre-Treatment Tank: To include a 3,785 L pre-treatment tank with a maximum cover of 300 mm of soil. Riser and lids will be installed to permit for accessibility;
- Treatment Unit: The treatment unit will include a Norweco hydro-kenetic 5670L-3M treatment unit, installed in series and located down stream of the pre-treatment tank. This unit will produce a tertiary treatment of the effluent quality. The effluent from the treatment unit will be pumped from a 300 gal pump chamber with a 0.5 hp pump, timer dosed at 35 s per 15 min, to the pressurized shallow buried trench bed;
- Filter Vault: The filter vault will include Norweco filters to be installed in series and downstream of the remaining treatment units. Accessibility to the filters will be permitted through the inclusion of access points along ground surface, constructed of risers ad lids;
- Pressurized Shallow Buried Trench Bed: The pressurized shallow buried trench bed will include a sand fill material to each side of the bed, and will have four (4) runs of 26.16 m in length, with 2.0 m spacing.

6.2 Proposed Building – Proposed Septic Design

The daily sewage flow for the proposed assembly hall is based on the assumption that 500 individuals will occupy the building. In accordance with Schedule 8 of the OBC, it is assumed that 8 L/day will be discharged into the septic system for each individual that occupies the building. This is the set value for an assembly hall not equipped with food services. As a conservative approach to determine the expected largest septic system envelope required to service the proposed assembly hall, 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 of 4,000 L. The total length of pipe required for the proposed septic bed for the proposed assembly hall, assuming imported fill, was calculated as approximately 240 m using the following equation:

L = QT/200

where L = length of pipe (m);

Q = daily sewage flow for the proposed assembly hall (L/day); and

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

Therefore, an area of approximately 360 m² is required for the septic bed assuming 16 pipes, each having a length of 15 m and a spacing of 1.6 m between the pipes. A mantle of 15 m in length would be required along the downgradient portion of the bed. Based on the total coverage of the septic bed (raised portion and mantle plus a replacement area) an area of approximately

1,215 m² would be required. This is a conservative approach based on the OBC.

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However, due to the total sewage demand of the existing and proposed buildings (6,825 L/day) and available infiltration area on the site $(15,888 \text{ m}^2)$, a conventional system such as those used by the existing building presently is not adequate for the proposed assembly hall and tertiary treatment is necessary. It is proposed that a tertiary system, Norweco HK 4730L-3M, be considered for both the new assembly hall septic system.

As shown in **Appendix E**, a Norweco HK 4730L-3M tertiary treatment system is proposed for the proposed the assembly hall. The general details are as follows:

- Balancing Tank: A 2000 Gal balancing tank, with a LE40-series sewage pump is to be installed along with a timer to prevent peak loading in the Norweco treatment unit;
- Treatment Unit: The treatment unit will include a Norweco hydro-kenetic 5670L-3M treatment unit, installed in series and located down stream of the pre-treatment tank. This unit will produce a tertiary treatment of the effluent quality. The effluent from the treatment unit will be pumped from a 300 gal pump chamber with a 0.5 hp pump, timer dosed at 15 s per 6 min, to the pressurized shallow buried trench bed; and
- Pressurized Shallow Buried Trench Bed: The pressurized shallow buried trench bed will
 include a sand fill material to each side of the bed, and will have ten (10) runs of 15.26 m
 in length, with 2.0 m spacing.

6.3 Average Daily Water Demand Variance

It should be noted that the average daily water demand presented in the Site Servicing Report prepared by LRL, dated September 18, 2017 was calculated for the entire property using Section 7 of the OBC. The demand was calculated assuming a worst-case scenario where all fixtures at the property, both the existing and the proposed buildings, are turned on simultaneously at the applicable flowrate for each fixture as specified in the OBC. The purpose of this calculation is to size the piping required to service the site.

7 PRIVATE SEWAGE DISPOSAL SYSTEM IMPACT STUDY

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 m² (1 hectare);
- System Isolation Consideration for areas where the septic system is hydrogeologically isolated from the potable water source; and
- Contaminant Attenuation Consideration for sites that do not meet the above two points.

Bedrock was encountered at depths less than 2.0 m in more than two thirds of the site, therefore the site is considered hydrogeologically sensitive with areas of thin soil over highly permeable soils (i.e., bedrock). The depth to inferred bedrock encountered during the geotechnical investigation (Geotechnical Investigation, LRL, LRL, November 2019), Phase II ESA (Phase II

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Environmental Site Assessment, LRL, November 22, 2019), and this terrain analysis are illustrated in Figure 7 (attached). As shown, the depth to bedrock in the vicinity of the existing septic beds is approximately 1.4 m north of the building and 0.80 to 1.80 m south of the building. For the proposed assembly hall, at the southern locations in the general vicinity of the proposed Norweco septic bed the inferred depth to bedrock ranged from 2.10 m (TP-1) to 6.10 m (MW19-4). Based on these elevations there is evidence to suggest that there is sufficient overburden thickness to minimize the potential for the bedrock to be a receiver of the septic effluent in the vicinity of the proposed septic bed for the future assembly hall.

The overburden material generally consisted of a fill material in the test pits with a stratum of till (TP3) or silty sand (TP1) above the bedrock in areas. As discussed in Section 4, representative samples of the till material at TP3 and TP1 were collected for sieve analysis. The results represent fine silty sand and silt loam at TP3 and TP1, respectively. The receiving groundwater for the septic system effluent is identified as the fill, silty sand and till. This groundwater is not considered an aguifer as it was encountered at depths less than 2.0 m below grade. As stated in Section 5.1, this groundwater is not a suitable supply aquifer for potable water based on its assumed poor yield, poor quality, shallow depth and likely use for the attenuation of the Site's existing, and the neighbouring properties', septic effluents. This groundwater is considered a suitable attenuation zone because alternative sources of water are available (i.e., municipal water or bedrock aquifer).

As mentioned above, the lot size is 38,000 m², with approximately 15,504 m² available for the installation of the proposed septic system. The lot size consideration for lots greater than 10,000 m² does not apply based on the anticipated total sewage demand of 6,000 L/day, including the existing building. Therefore, "Contamination Attenuation" was considered in this terrain analysis.

The Site has a total area of 38,000 m². In accordance with Section 22.5.8 of the MECP Design Guidelines for Sewage Works, the stream which is identified to bisect the Site immediately east of the proposed development must be considered in the extent of the allowable dilution area. It is understood that a 20 m setback is required from the bank of the stream and any development on the Site. The proposed septic system layouts are shown in the proposed site development plan in Figure 3.

7.1 **Contaminant Attenuation Method (Predictive Assessment)**

The Contaminant Attenuation Method (Predictive Assessment) was used to determine the impact of the proposed on-Site septic systems at the boundary of the Site. This procedure assesses the risk that the individual on-site systems will cause the concentration of the nitrate-nitrogen exceed 10 mg/L at the property boundaries. Dilution is the attenuation mechanism considered for nitrates, with precipitation being the only source of infiltration. The following parameters and assumptions were used in the nitrate attenuation calculations:

- Infiltration factors for the site:
 - Flat topography;
 - Infiltration Factors:
 - i. Grain size analysis ranged from fine silty sand to silt loam. A conservative assumption of clay loam was used for this calculation;
 - ii. Approximately 15,504 m² of the site is considered Cultivated Land;
 - Moisture Surplus:
 - i. The remaining cultivated land is considered Shallow Rooted Crops;

ii. Grain size analysis ranged from fine silty sand to silt loam. An assumption of Silt Loam was used for this calculation;

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- o Impervious areas (existing and proposed) were calculated to be of 2,866 m² for the buildings and 5,380 m² of paved driveway and parking areas; and
- Moisture surplus values from the Ottawa weather station (Environment Canada, 2011).

The moisture surplus printout is included in **Appendix F**. This location is considered representative of the site located at the south-central extent of the City of Ottawa, Ontario.

Based on the total proposed sewage volume for the entire Site of 6,000 L/day, the existing lot size, soil conditions, a nitrate concentration of the sewage of 40 g/L, the calculated levels of nitrates at the property limits is estimated as 16.14 mg/L as presented in the attached **Table 4A**. This is above the procedure's guideline limit of 10 mg/L at the property line. Based on the "Contaminant Attenuation Method", without tertiary treatment the current lot size and soil conditions are not suitable to attenuate the nitrate impacts generated by the septic systems of the development in accordance with D-5-4 guideline.

The above calculations are based on the current D-5-4 guideline which requires the use of 40 mg/L as the contaminant source as per Section 5.6.2 (a). Therefore, the use of an advanced tertiary treatment system such as Norweco tertiary system is necessary to reduce the levels of nitrates prior to discharge to the disposal field. This particular system is approved by the OBC and the Building Materials Evaluation Commission of the Ontario Ministry of Municipal Affairs and Housing. Furthermore, Section 5.7 of the D-5-4 guideline states that the Ministry recognises "that as research continues, information and technologies may become available which warrant minor or substantial revisions to this guideline".

The Norweco HK 4730L-3M is certified for a minimum 50% total nitrogen reduction. Therefore, a nitrate effluent concentration of 20 mg/L was used for both the proposed upgraded system for the existing temple building the proposed assembly hall in this assessment. A copy of the specifications for the Norweco tertiary system is included in **Appendix G**.

The calculated nitrate level at the property line is estimated based on the daily sewage volume for the existing building (2,000 L), which is proposed to be handled by the southern system only, treated with a Noweco tertiary system, in addition to the the daily sewage volume of the proposed system for the new building of 4,000 L, treated with a Norweco tertiary system. The detailed calculations for the proposed development are presented in the attached **Table 4B**. It is assumed that the level of nitrates in the effluent from the proposed Norweco tertiary systems are 20 mg/L. Based on these assumptions the nitrates at the property limits is estimated as 8.06 mg/L. This is below the procedure's guideline of 10.0 mg/L. Based on the "**Contaminant Attenuation Method**" the current lot size and soil conditions are suitable to attenuate the nitrate impacts generated by the septic systems on the development in accordance with current D-5-4 guidelines, provided an appropriate tertiary treatment is used for the proposed system.

8 Conclusions

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

1. Sufficient area exists on the property for the upgrading of the existing system in the temple building with a design sewage flow of up to 2,000 L/day, and the installation of a septic system in accordance with the OBC to service the proposed Assembly Hall with a design sewage flow of up to 4,000 L/day.

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- 2. Pre-treatment of the sewage from the proposed sewage disposal systems with Norweco tertiary systems, which have a certified nitrogen reduction of a minimum of 50%, yields a calculated nitrate concentration at the property line of 8.06 mg/L, based on the "Contaminant Attenuation Method".
- 3. Hydrogeologically sensitive conditions are present on the site due to thin overburden. The overburden generally consists of fill to bedrock, with till or silty sand observed at two (2) of the test pits.
- 4. Records of domestic wells were retrieved within 500 m of the site. The potable water source of these wells is the bedrock aquifer. A thin layer of either clay, gravel or till, with some sand in areas, being between 0.9 and 7.6 m thick over bedrock.

9 RECOMMENDATIONS

- 1. The septic system should be placed at least 30 m from any wells, and no future wells should be installed on the Site.
- 2. It is recommended that the water table be surveyed prior to installation of the sewage disposal systems.
- 3. It is recommended that the required 20 m setback from the normal high water mark of the identified stream east of the proposed development footprint be maintained.
- 4. Due to the thin soils and sensitive site conditions it is recommended that the leaching bed of the proposed system be fully raised. It is recommended that a service contract be initiated with the manufacturer. All manufacturer's recommendations regarding maintenance and monitoring of the system shall be followed.
- 5. It is recommended that a geodetic benchmark be used for further investigations on the site, including any additional monitoring wells and groundwater elevations.

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 May 8th, 2017, 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.

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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.

Yours truly,

LRL Associates Ltd.

Jessica Arthurs

Senior Environmental Technician

PROFESSIONAL EN 100506943 2022/05/05 POLINCE OF ONTARIO

Alex Wood, P. Eng. Lead Environmental Engineer

Encl.

Figure 1 – Site Location

Figure 2 – Site Plan

Figure 3 – Proposed Site Layout

Figure 4 – Test Pit and Monitoring Well Locations, Groundwater Elevations and Groundwater Contours

Figure 5 – Well Locations, Ontario Well Records Within 500 m of the Site

Figure 6 - Servicing Map for Properties Within 500 m

Figure 7 – Depth to Bedrock in Boreholes and Test Pits

Table 1A – Summary of Groundwater Elevations in Test Pits

Table 1B – Summary of Groundwater Elevations in Monitoring Wells (September 30, 2019)

Table 2 – Summary of Sieve & Hydrometer Analyses

Table 3 – Summary of Analysis of Water Samples Collected from the Test Pits

Table 4A – Nitrate Attenuation Calculations

Table 4B – Nitrate Attenuation Calculations – Tertiary Treatment

Appendix A – Test Pit Logs

Appendix B – Laboratory Certificates of Analysis

Appendix C – Sieve & Hydrometer Analysis

Appendix D – Ontario Well Record Printouts

Appendix E – Proposed Sewage System Layout

Appendix F – Moisture Surplus Printout

Appendix G – Norweco Hydro Kinetic Specifications

Appendix H – OSSO Approval





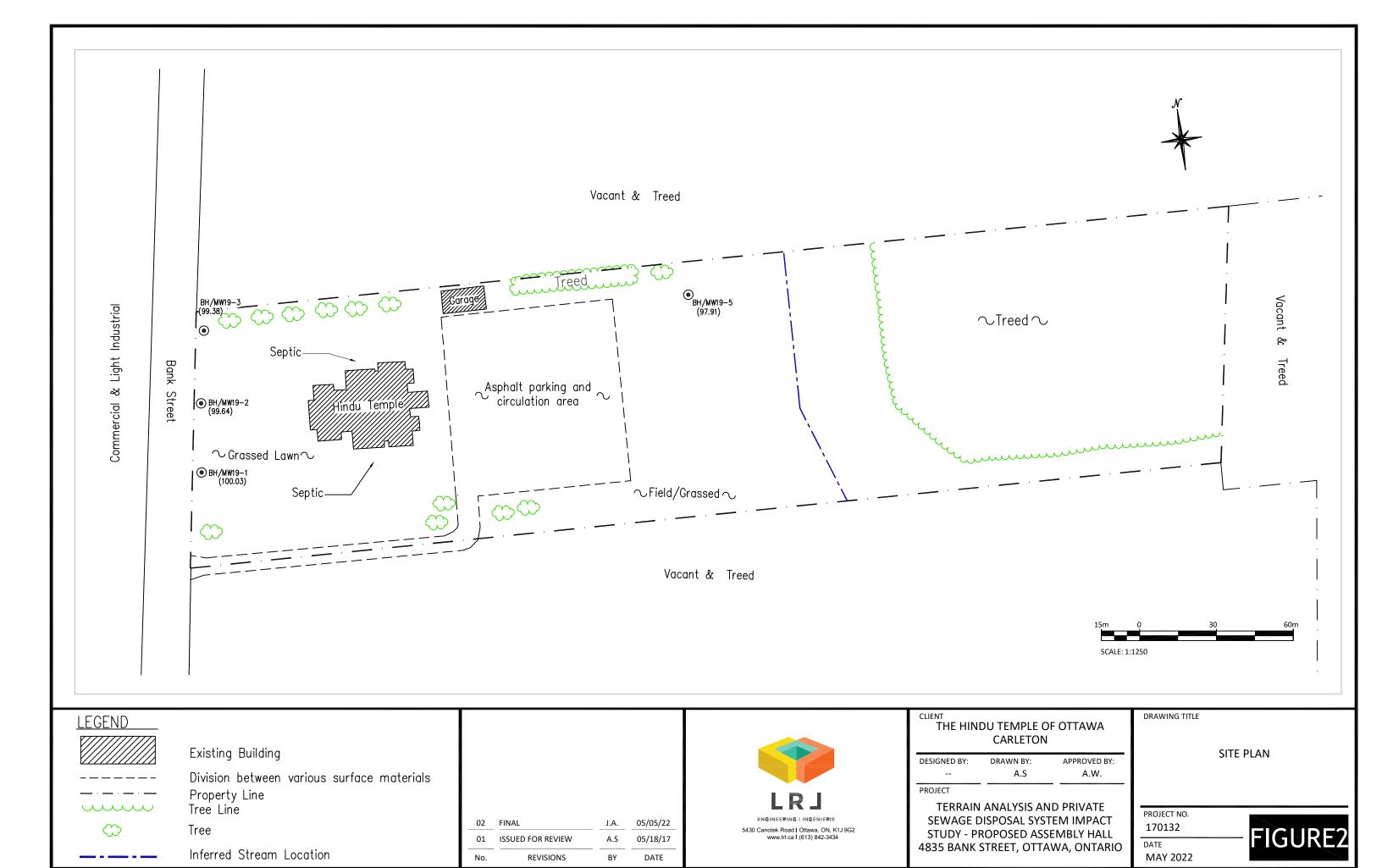
PROJECT

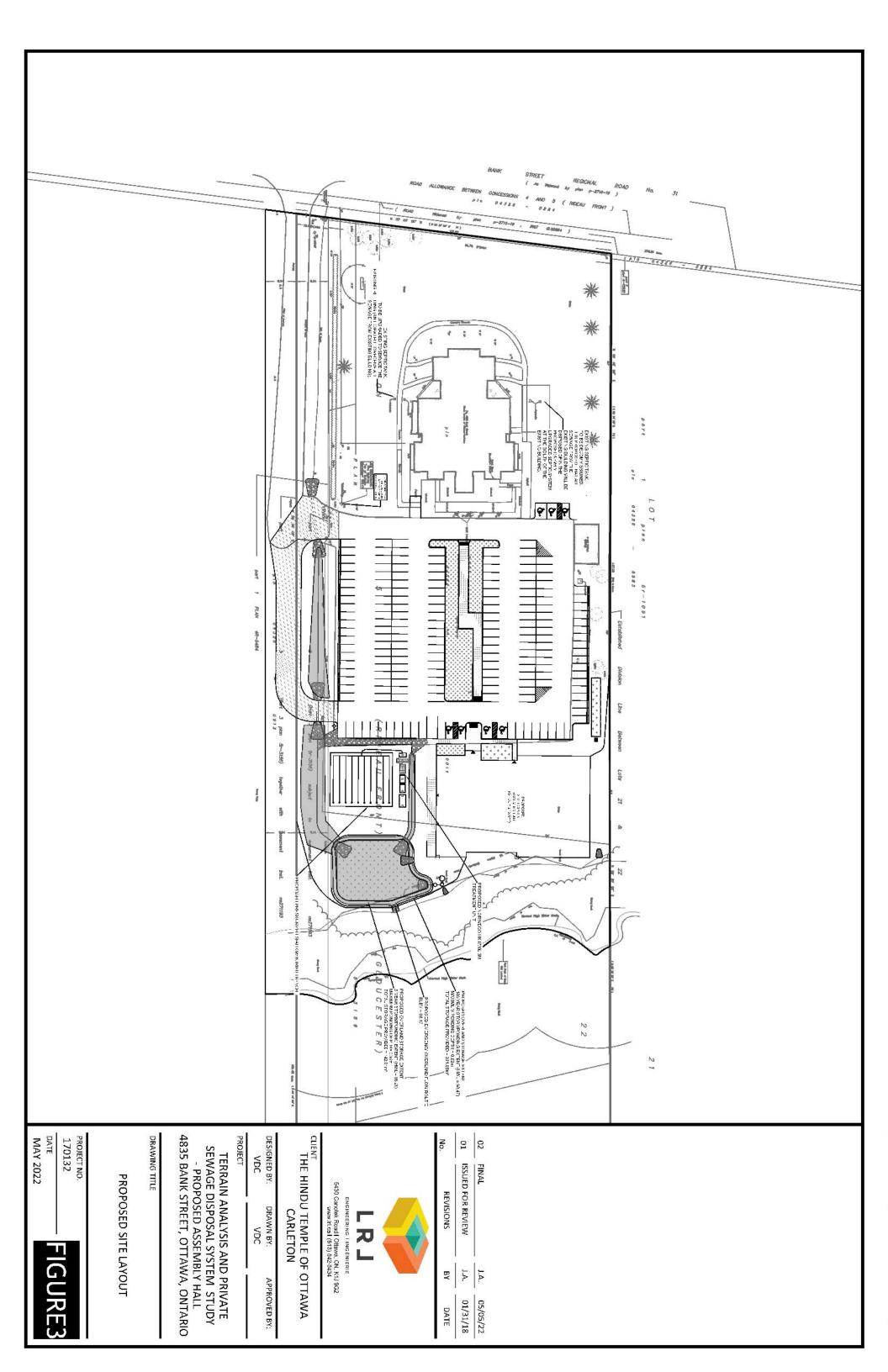
TERRAIN ANALYSIS AND PRIVATE SEWAGE DISPOSAL
SYSTEM IMPACT STUDY
PROPOSED ASSEMBLY HALL
4835 BANK STREET, OTTAWA, ONTARIO

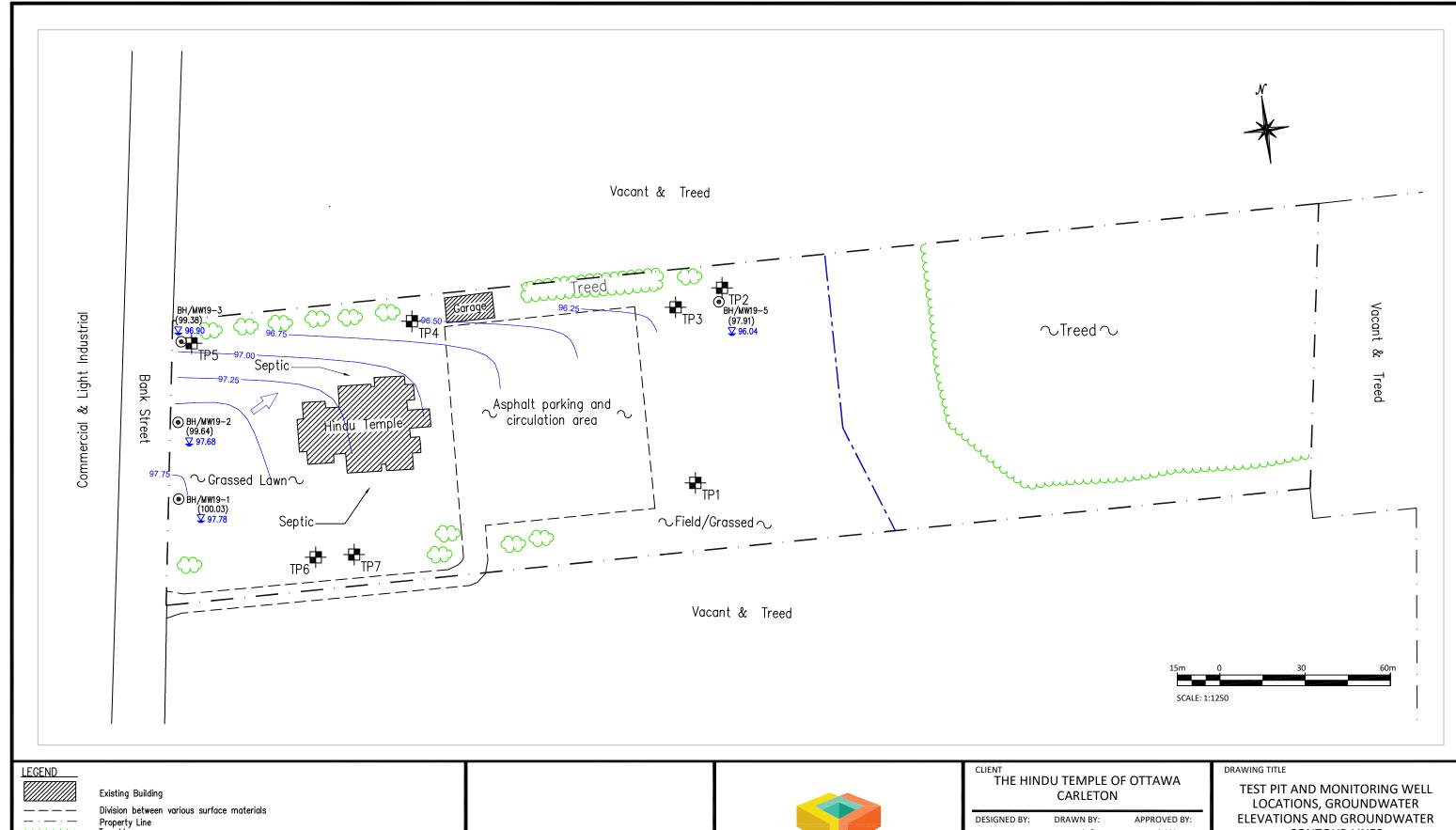
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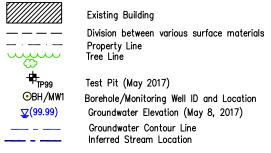
SITE LOCATION (NOT TO SCALE) SOURCE: GEOOTTAWA

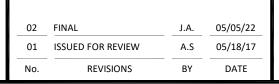
CLIENT DATE PROJECT FIGURE1 THE HINDU TEMPLE OF OTTAWA CARLETON MAY 2022 170132 iais Road Site













A.S A.W. PROJECT

TERRAIN ANALYSIS AND PRIVATE SEWAGE DISPOSAL SYSTEM IMPACT STUDY - PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA, ONTARIO CONTOUR LINES

PROJECT NO. 170132 DATE

MAY 2022

FIGURE4



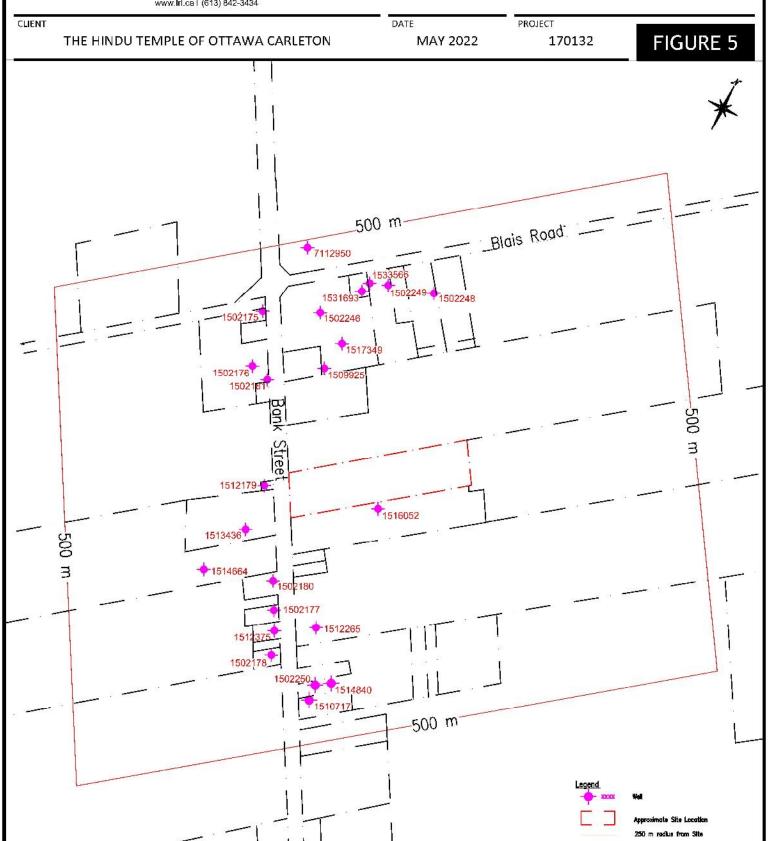
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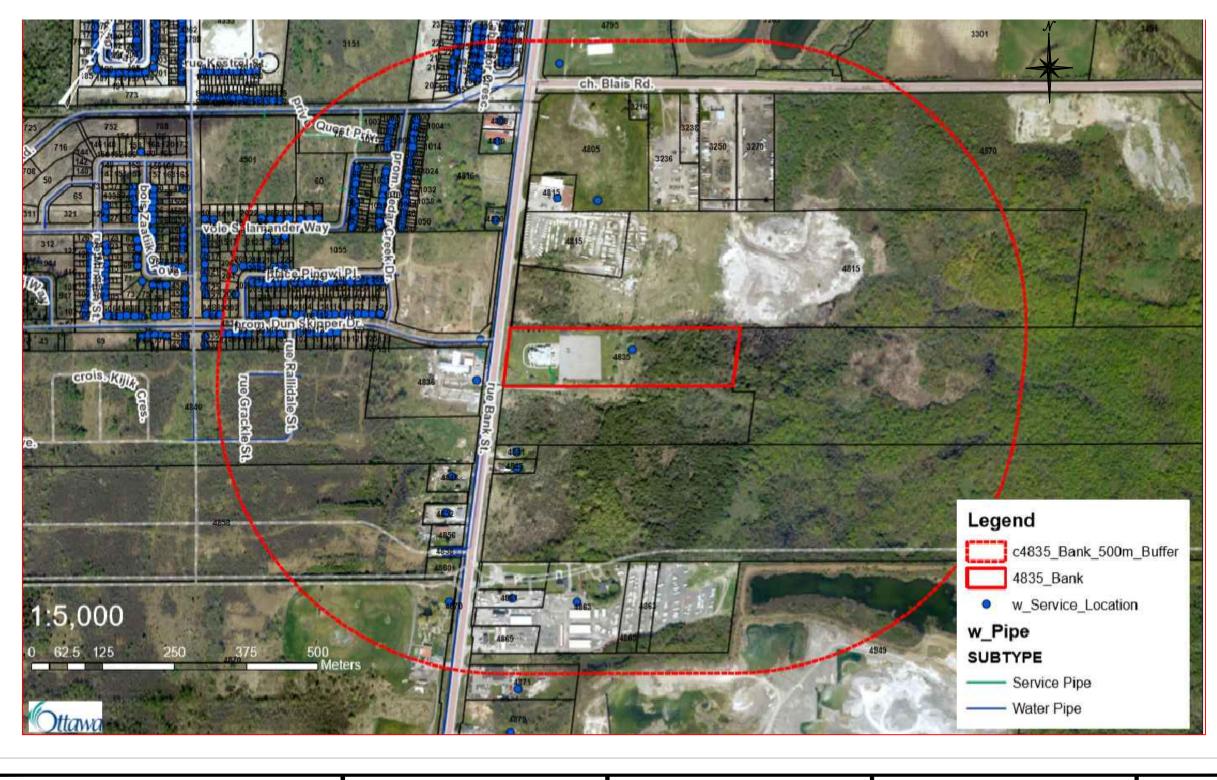
5430 Canotek Road | Otlawa, ON, K1J 9G2 www.lrl.ca | (613) 842-3434 PROJECT

TERRAIN ANALYSIS AND PRIVATE SEWAGE DISPOSAL SYSTEM IMPACT STUDY PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA, ONTARIO

DRAWING TITLE

WELL LOCATIONS
ONTARIO WELL RECORDS WITHIN 500 M OF THE SITE
(NOT TO SCALE)





REVISIONS

DATE





DESIGNED BY:

DRAWN BY: APPROVED BY: M.W. M.W

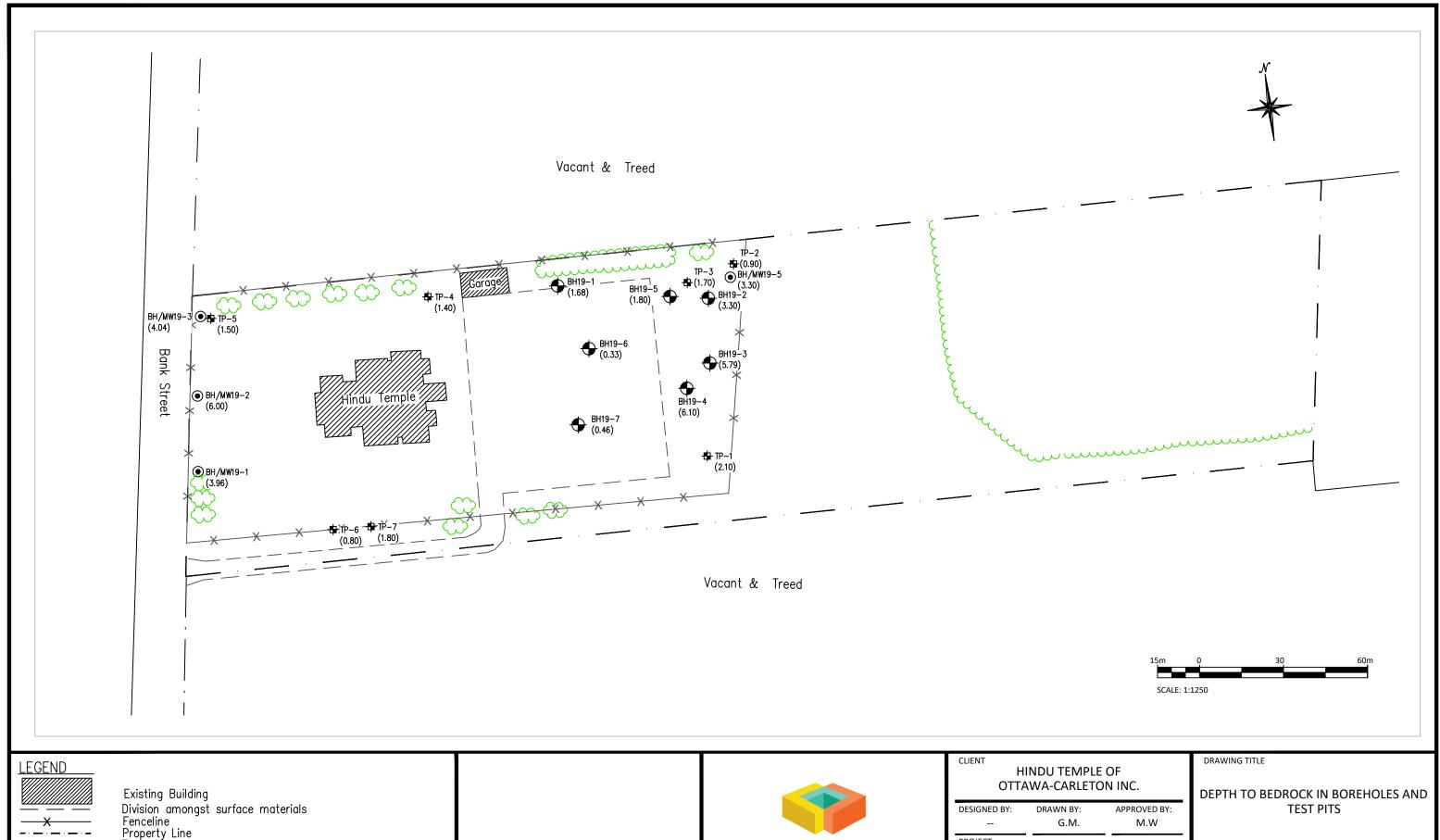
PROJECT

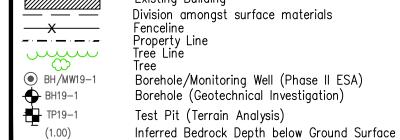
TERRAIN ANALYSIS **4835 BANK STREET** OTTAWA, ONTARIO DRAWING TITLE

SERVICING MAP FOR PROPERTIES WITHIN 500 M

PROJECT NO. 170132

FIGURE 6 DECEMBER 2020





Division amongst surface materials
Fenceline
Property Line
Tree Line Borehole/Monitoring Well (Phase II ESA) Borehole (Geotechnical Investigation) Test Pit (Terrain Analysis)

ISSUED FOR REVIEW G.M. 11/10/19 01 DATE REVISIONS ВҮ



PROJECT

TERRAIN ANALYSIS **4835 BANK STREET** OTTAWA, ONTARIO PROJECT NO. 170132

DECEMBER 2020

FIGURE 7

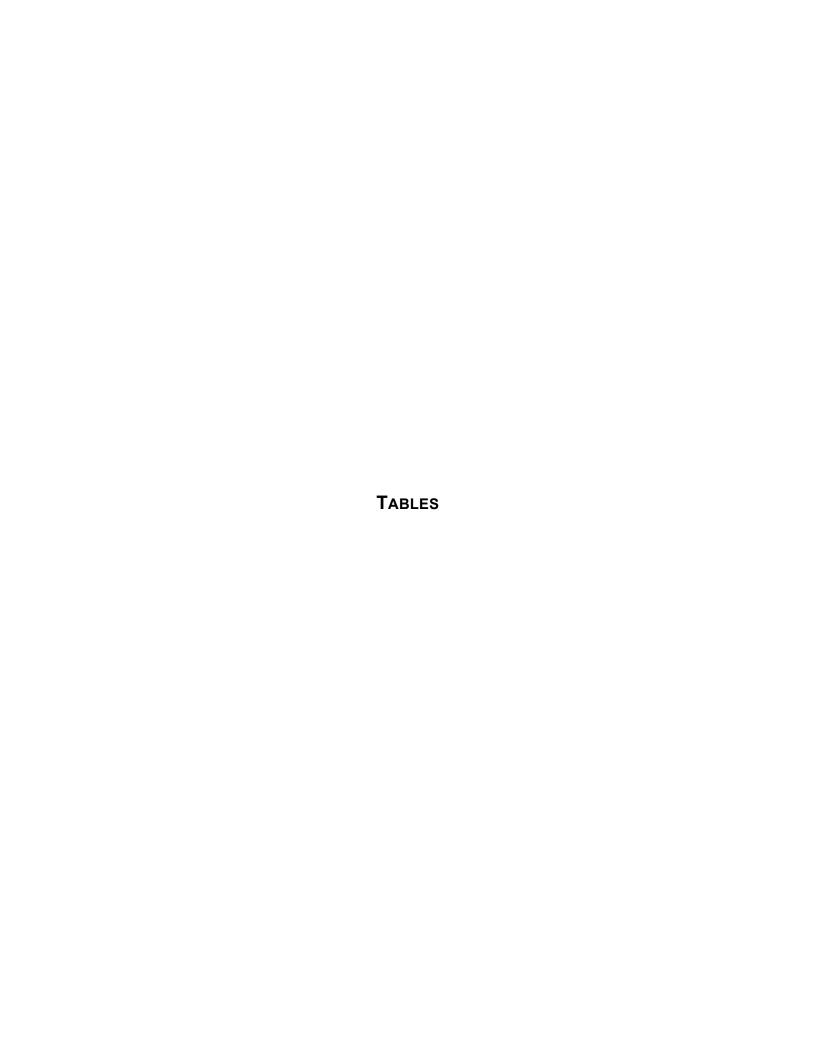


Table 1A
Summary of Groundwater Elevations in Test Pits

Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario

LRL File: 170132

Test Pit	Ground Surface Elevation ¹ (m)	Reference Elevation ² (m)	Depth To Wa	ter Table (m) Ground Surface	Groundwater Elevation (m)
TP1	98.21	99.15	1.35	0.41	97.80
TP2	97.09				
TP3	97.75	98.98	1.94	0.71	97.04
TP4	99.54				
TP5	98.78	99.02	DRY		
TP6	99.38				
TP7	99.60	100.79	2.52	1.33	98.27

NOTES

¹ Elevations are based off of a temporary benchmark established at the top of the east arm of the fire hydrant along the southof the Site (100.00 m).

² Reference elevation is top of piezometer.

Table 1B
Summary of Groundwater Elevations in Monitoring Wells (September 30, 2019)

Terrain Analysis - Proposed Assembly Hall 4835 Brank Street, Ottawa, Ontario LRL File: 170132

Monitoring Well	Ground Surface Elevation ¹ (m)	Reference Elevation ² (m)	Depth To Water Table (m) Ground Surface Reference Point		Groundwater Elevation (m)
BH/MW19-1	100.03	100.01	2.25	2.23	97.78
BH/MW19-2	99.64	99.62	1.95	1.94	97.68
BH/MW19-3	99.38	99.32	2.48	2.42	96.90
BH/MW19-5	97.91	97.87	1.87	1.83	96.04

NOTES

¹ Elevations measured from the north rim of the hydrant valve in the central south portion of the Site (100.00 m).

² Reference elevation is top of PVC riser.

Table 2 **Summary of Sieve & Hydrometer Analyses**

Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

	Sample Gradation Percent Particles in Each Fraction									
				Sand						
Sample	Depth (m)	Gravel >4.75 mm	Coarse 2.0 - 4.75 mm	Medium 425 µm - 2.0 mm			Soil Texture Classification			
TP1-3	1.8 - 2.0	4.8	1.2	1.8	6.5	63.8	22.0	Silt Loam		
TP3-6	1.4 - 1.6	21.3	7.0	12.7	20.1	39.	0	Fine Silty Sand		

NOTES:

Unified Soil Classification System

Table 3 Summary of analysis of water samples collected from the test pits.

Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario

LRL File: 170132

			Ontario Drinking Water Standards Sample				
Parameter	Units	MRL	Standard	Туре	TP1	TP3	TP7
Sample Date (d/m/y)					2017-08-05	2017-08-05	2017-08-05
Ammonia	mg/L	0.01			0.28	0.39	1.66
Total Kjeldahl Nitrogen	mg/L	0.1			78.1	65.3	131
Nitrate as N	mg/L	0.1	10	MAC	<0.1	0.5	<0.1
Nitrite as N	mg/L	0.05	1	MAC	<0.05	<0.05	<0.05

NOTES

MAC Maximum Acceptable Concentration

MRL Minimum Reportable Limit

Table 4A

Nitrate Attenuation Calculations

Terrain Analysis and Private Sewage Disposal System Impact Study - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

1. Potential Infiltration

23,750

Total 6

Weather Station Ottawa Potential Infiltration (PI) Infiltration Factor (IF)1 Moisture Surplus (MS) (IF*MS) (mm) Moisture Moisture Retention² Surplus³ No. Section Area (m²) Topography Value Soil Value Cover Value Total **Ground Cover** (mm) (mm) Section Weighted 23,750 0.3 Clay Loam 0.2 Cultivated Land Shallow Rooted Crops 3 Silt Loam 125 349 209.4 Flat 0.1 0.6 209.4

2. Area Available for Infiltration				
Approximate footprint of the exisitng assembly hall		Н		1,168 m ²
Approximate footprint of the exisitng garage		Н		105 m ²
Approximate footprint of the proposed assembly hall		Н		1,593 m ²
Approximate area of paved parking and circulation (Existing	& Proposed)	d ⁴		5,380 m ²
Approximate Length of Road		L		m
Approximate Width of Road		w		m
Total Area of Property				23,750 m ²
Impervious Area				8,246 m ²
Roads	l x w	-	m ²	
Parking and Circulatio	n d	5,380	m ²	
Buidling	Sum of H's	2,866	m ²	
Area available Infiltration		Α		15,504 m ²

3. Nitrate Diluation Calculations			
Nitrate Concentration of Infiltration ⁷	C_i	0.05	mg/L
Site Infiltration	Q _i = A*PI	3,247	m ³
Existing Development			
Daily Sewage Volume - Exisitng Development	Q _d	2.00	m ³
Maximum Yearly Sewage Volume - Existing Development	Q _e =365*Q _d	730	m ³
Nitrate Concentration in Sewage - Existing Development	C _e	40	mg/L
Proposed Development			
Daily Sewage Volume - Proposed New Development ⁸	Qd	4.00	m ³
Maximum Yearly Sewage Volume (water) - Proposed New Development	Qe=365*Qd	1,460	m ³
Nitrate Concentration in Sewage - Proposed New Development	Се	40	mg/L
Maximum Allowable Nitrate Concentration at Boundary ⁵	C _m	10.0	mg/L
Increase in Nitrate Concentration at Boundaries	C = (Qe,1Ce,1+Qe,2Ce,2+QiCi)/(Qe,1+Qe,2+Qi)	16.14	mg/L

NOTES

- 1 Table 2: Infiltration Factors, Hydrogical Technical Information Requirements for Land Development Applications, Ministry of the Energy and Environment, April 1995.
- ² Thornthwaite and Mather's (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.
- Moisture surplus for data for Ottawa ON (Environment Canada Meteorological Service of Canada, 2010).
- ⁴ The vaule is a calculation of the total existing parking & circulation area foot print, and the proposed 202 Vehicle parking & circulation area presented Vector Design Architects site plan, May 2019.
- 5 As per Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment, Ministry of the Energy and Environment, August 1996.
- The total area of the property used in this calculation is limited to the area of the Site located west of the stream.
- The nitrate concentration of infiltration is assumed to be 0.0 mg/L.
- 8 Calculated using Part 8 of the Ontario Building Code, 2012: Assembly Hall per seat, no food service, 8 L/day (500 seats)

Total

209.4

Table 4B

Nitrate Attenuation Calculations - Tertiary Treatment

Terrain Analysis and Private Sewage Disposal System Impact Study - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

1. Potential Infiltration

Weather Station Ottawa

					Infilt	ration Factor (IF) ¹		Moisture Surplus (MS)				Potential Infiltration (PI) (IF*MS) (mm)		
No.	Section Area (m ²)	Topography	Value	Soil	Value	Cover	Value	Total	Ground Cover	Soil Type	Moisture Retention ² (mm)	Moisture Surplus ³ (mm)	Section	Weighted
1	23,750		0.3	Clay Loam	0.2	Cultivated Land	0.1	0.6	Shallow Rooted Crops	3 Silt Loam	125	349	209.4	209.4
Total 6	23,750					_			-				Total	209.4

2. Area Available for Infil	tration			
Approximate footprint of the exis	tng assembly hall		Н	1,168 m ²
Approximate footprint of the exis	tng garage		Н	105 m ²
Approximate footprint of the prop	osed assembly hall		Н	1,593 m ²
Approximate area of paved parki	ng and circulation (Existing & F	Proposed)	d ⁴	5,380 m ²
Approximate Length of Road			L	m
Approximate Width of Road			w	m
Total Area of Property				23,750 m ²
Impervious Area				8,246 m ²
	Roads	l x w	- m ²	
	Parking and Circulation	d	5,380 m ²	
	Buidling	Sum of H's	2,866 m ²	
Area available Infiltration			A	15.504 m ²

3. Nitrate Diluation Calculations			
Nitrate Concentration of Infiltration ⁷	C _i	0.00	mg/L
Site Infiltration	$Q_i = A^*PI$	3,247	m ³
Existing Development (Norweco Hydro-Kinetic System)			
Daily Sewage Volume - Exisitng Development	Q _{d1}	2.0	m ³
Maximum Yearly Sewage Volume - Existing Development	Q _{e1} =365*Q _{d1}	730	m ³
Nitrate Concentration in Sewage - Existing Development	C _{e1}	20	mg/L
Proposed Development (Norweco Hydro-Kinetic System)			
Daily Sewage Volume - Proposed New Development ⁸	Q _{d3}	4.00	m ³
Maximum Yearly Sewage Volume (water) - Proposed New Development	Q _e =365*Q _d	1,460	m ³
Nitrate Concentration in Sewage - Proposed New Development	C _e	20	mg/L
Maximum Allowable Nitrate Concentration at Boundary ⁵	C _m	10.0	mg/L
Increase in Nitrate Concentration at Boundaries	$C = (Q_i C_i + Q_{e1}^* C_{e1}^* + Q_{e2}^* C_{e2}^* + Q_{e3}^* C_{e3}^*)/(Q_i + Q_{e1}^* + Q_{e2}^* + Q_{e3}^*)$	8.06	mg/L

NOTES

- 1 Table 2: Infiltration Factors, Hydrogical Technical Information Requirements for Land Development Applications , Ministry of the Energy and Environment, April 1995.
- Thornthwaite and Mather's (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.
- Moisture surplus for data for Ottawa ON (Environment Canada Meteorological Service of Canada, 2010).
- 4 The vaule is a calculation of the total existing parking & circulation area foot print, and the proposed 202 Vehicle parking & circulation area presented Vector Design Architects site plan, May 2019.
- As per Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment , Ministry of the Energy and Environment, August 1996.
- The total area of the property used in this calculation is limited to the area of the Site located west of the stream.
- The nitrate concentration of infiltration is assumed to be 0.0 mg/L.
- ⁸ Calculated using Part 8 of the Ontario Building Code, 2012: Assembly Hall per seat, no food service, 8 L/day (500 seats)

APPENDIX A
Test Pit Logs



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation ltd.

SI	UBSURFACE PROFILE	SAI	MPLE D	ATA		Water Content	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Valer Content	Water Level (Standpipe or Open Excavation)
0 ft m	Ground Surface	98.21 0.00					[2]
	TOPSOIL Sandy, dark brown, dry.	98.01 0.20					s (08/05/
1-	FILL Sandy clay, dark brown, dry.						
3	Silty Sand Trace clay, with clay seam from 1.7 to 1.8 m bgs, brown, dry.	97.31 0.90		1	-		
4	Sieve analysis completed.						
6-			_	2	-		
2		96.11		3			
7-	End of Test Pit Refusal over inferred bedrock.	2.10					
8-							_
Easting	g: N/M ntum: Top east arm of hydrant at south e	Northing			<u>notes</u> : BGS- E	Below Ground Surface	
			iser Elev.:	: 99.15			
			on Length				





Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation ltd.

SUBSURFACE PROFILE		SAMPLE DATA					Water Content		
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Str (kPa) 50 19	ength) 50	▼ (5 25 5 Liquid	Content %) 50 75 d Limit %) 60 75	Water Level (Standpipe or Open Excavation)
0 ft m	Ground Surface FILL	97.09 0.00							
1	Silty sand with some clay, brown, saturated with water infiltration at 0.4 m bgs. Buried metal structure/waste at approximately 0.9 m bgs.								
-		96 19		4					
3 — 1 — 1 — 4 — — — — — — — — — — — — — —	End of Test Pit	96.19							
-									
6-									
2 									
8-									
Eastin	ıg: N/M	 Northing	: N/M		I	OTES:			
Cita D					Test pit terminated at 0.9 meters due to volume of water in				

Site Datum: Top east arm of hydrant at south entrance (100.00 m)

Groundsurface Elevation: 97.09

Top of Riser Elev.: --

Excavation Width: 1.2 m

Excavation Length: 1.5 m

Test pit terminated at 0.9 meters due to pit. BGS- Below Ground Surface



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation ltd.

	SUBSURFACE PROFILE		SAMPLE DATA			Water Content			
Depth	Soil Description	so Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Value Content	Water Level (Standpipe or Open Excavation)		
0 ft n	m Ground Surface	e 97.75							
- - - - -	Sandy loam, dark brown, Brick debris found in top								
1-	Sandy silt, trace boulders Tire debris found at approm bgs.			5	-				
2	TILL	96.95 0.80							.▲ 0.71 m
3-	Silty sand, trace gravel, c boulders, brown, dry. 1 Sieve analysis completed								
4				6	-				
1	-								
6-	End of Test P Refusal at 1.7 m bgs ov bedrock.								
7-	- 2								
8-	-								
Ea	asting: 0454091	Northing	: 5017670	0		NOTES:			
	ite Datum: Top east arm of hydr					BGS- Belo	ow Ground Surfa	ce	
	xcavation Width: 1.2 m	Excavati							



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation Itd.

SUBSURFACE PROFILE		SAMPLE DATA				Water Constant	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Water Content ∇ (%) ∇ 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation)
0 ft m	Ground Surface	99.54 0.00					
1	TOPSOIL Silty loam, trace clay,dark brown, dry.		ોકાકાકાકાકાકાકાકા કોનાકાકાકાકાકાકાકા				-
2	FILL Silty sand, trace cobbles and gravel, light brown, dry.	99.04					_
-	Changing to dark brown sandy fill with trace boulders at approximately			7			
3	0.8 m bgs.						-
4				8			
5-	End of Test Pit Refusal at 1.4 m bgs over inferred bedrock or large concrete structure.	98.14					_
6—							
2							
7—							_
8-							
Factin	g: 0454005	 Northing	· 5017629	<u> </u>	NOTES:		
						S- Below Ground Surfac	:e
	atum: Top east arm of hydrant at south endsurface Elevation: 99.54	entrance (Top of Ri				2 2000 Ground Guria	·•
Excav	ation Width: N/M	Excavation	on Lengt	h: N/M			



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation ltd.

S	SUBSURFACE PROFILE		SAMPLE DATA					
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear S (kl	Strength Pa) 150	Water Content ∇ (%) ∇ 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation)
0 ft m	Ground Surface	98.78						
	TOPSOIL Silty loam some sand, dark brown, dry.	98.63 0.15		10				
1- 1- 2 3- - 1- 4	FILL Sand, some silt, trace cobbles, brown, dry. Waste debris of metal and asphalt pieces at approximately 0.9 m bgs.	97.28 1.50		9				M Dry at 1.53 m bgs
5 — - - -	End of Test Pit Refusal at 1.5 m bgs over inferred bedrock.	1.50						- ₹
6								-
7								_
8-								-
Eastin	g: 0453945	Northing	: 501759	5	ı	NOTES:		1
	atum: Top east arm of hydrant at south e					BGS	- Below Ground Surface	
		Top of Ri						
		Excavation						



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Project: Terrain Analysis

Excavation Method: Backhoe Excavation Contractor: Maurice Yelle Excavation ltd.

SI	UBSURFACE PROFILE	SAI	MPLE D	ATA			Water Content	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear (I	Strength kPa) 150	Water Content ∇ (%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
## m 0	Ground Surface TOPSOIL Sandy loam, dark brown, dry. FILL Sand, some gravel, cobbles, boulders, silty seam at 0.7 m bgs, brown, dry. Refusal at 0.8 m bgs over inferred bedrock. End of Test Pit	99.38 0.00 99.23 0.15 98.58 0.80	125224	12 13	50	150	25 50 75	
6								
	g: 0454003 utum: Top east arm of hydrant at south e		: 5017542			NOTES:	S- Below Ground Surfac	ee
			iser Elev.:	: 				· -
		Excavation						



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Project: Terrain Analysis

Excavation Method: Backhoe **Excavation Contractor:** Maurice Yelle Excavation ltd.

S	UBSURFACE PROFILE	SAI	MPLE [DATA			Water Constant	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear S (kl	Strength Pa) 150	Water Content ∇ (%) ∇ 25 50 75 Liquid Limit □ (%) 25 50 75	Water Level (Standpipe or Open Excavation)
0 ft m	Ground Surface	99.60						
- - - - - -	TOPSOIL Sandy loam, dark brown, dry. FILL Sand, brown, trace metal debris, dry.	99.40 0.20						
2		98.90 0.70						
3-	Silty sand, trace clay, boulders, grey, organics including tree stump, roots, blanefusal due to obstruction (tree nbg stump).	0.70						1.33 m bgs (08/05/17)
4								1.33
-								
6—	End of Test Pit	97.80 1.80						
-	LING OF FOOLER							
2								
7—								
-								
8-								-
Eastin	g: 0454051	Northing:	: 501756	4		NOTES:	•	
Site Da	atum: Top east arm of hydrant at south er	ntrance (1	00.00 m)		BGS	S- Below Ground Surfac	e
				.: 100.79				
Excava	ation Width: N/M	Excavation	on Lengt	th: N/M				

APPENDIX B Laboratory Certificates of Analysis



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

Certificate of Analysis

LRL Associates Ltd.

5430 Canotek Road Ottawa, ON K1J 9G2 Attn: Jessica Arthurs

Client PO:

Project: 170132 Report Date: 15-May-2017 Custody: 32310 Order Date: 11-May-2017

Order: 171 377

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

 Paracel ID
 Client ID

 1719377-01
 TP1

 1719377-02
 TP3

 1719377-03
 TP7

Approved By:



Dale Robertson, BSc Laboratory Director



Client PO:

Certificate of Analysis
Client: LRL Associates Ltd.

Report Date: 15-May-2017 Order Date: 11-May-2017

Order : 171 377

Project Description: 17 132

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Ammonia, as N	EPA 351.2 - Auto Colour	12-May-17	12-May-17
Anions	EPA 300.1 - IC	12-May-17	12-May-17
Total Kjeldahl Nitrogen	EPA 351.2 - Auto Colour, digestion	12-May-17	15-May-17



Order : 171 377

Report Date: 15-May-2017 Order Date: 11-May-2017 **Project Description: 17 132**

	Client ID: Sample Date:	TP1 08-May-17 1719377-01	TP3 08-May-17 1719377-02	TP7 08-May-17 1719377-03	- - -
	Sample ID: MDL/Units	Water	Water	Water	-
General Inorganics					
Ammonia as N	0.01 mg/L	0.28	0.39	1.66	-
Total Kjeldahl Nitrogen	0.1 mg/L	78.1	65.3	131	-
Anions					
Nitrate as N	0.1 mg/L	<0.1	0.5	<0.1	-
Nitrite as N	0.05 mg/L	< 0.05	<0.05	<0.05	-



Order : 171 377

Report Date: 15-May-2017 Order Date: 11-May-2017 **Project Description: 17 132**

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions	ND	0.1							
Nitrate as N Nitrite as N	ND ND	0.1 0.05	mg/L mg/L						
General Inorganics Ammonia as N Total Kjeldahl Nitrogen	ND ND	0.01 0.1	mg/L mg/L						



Order: 171 377

Report Date: 15-May-2017 Order Date: 11-May-2017 **Project Description: 17 132**

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Nitrate as N	ND	0.1	mg/L	ND				20	
Nitrite as N	ND	0.05	mg/L	ND				20	
General Inorganics									
Ammonia as N	0.021	0.01	mg/L	0.022			2.4	8	
Total Kjeldahl Nitrogen	1.50	0.1	mg/L	1.52			1.8	10	



Order : 171 377

Report Date: 15-May-2017 Order Date: 11-May-2017 **Project Description: 17 132**

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions Nitrate as N Nitrite as N	1.01 1.02	0.1 0.05	mg/L mg/L	ND ND	101 102	81-112 76-117			
General Inorganics Ammonia as N Total Kjeldahl Nitrogen	0.280 1.91	0.01 0.1	mg/L mg/L	0.022	103 95.7	81-124 81-126			



Order : 171 377

Report Date: 15-May-2017 Order Date: 11-May-2017 **Project Description: 17 132**

Qualifier Notes:

Login Qualifiers:

Samples received submerged in water, possibly melted ice. This condition can compromise sample integrity.

Applies to samples: TP1, TP3, TP7

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.

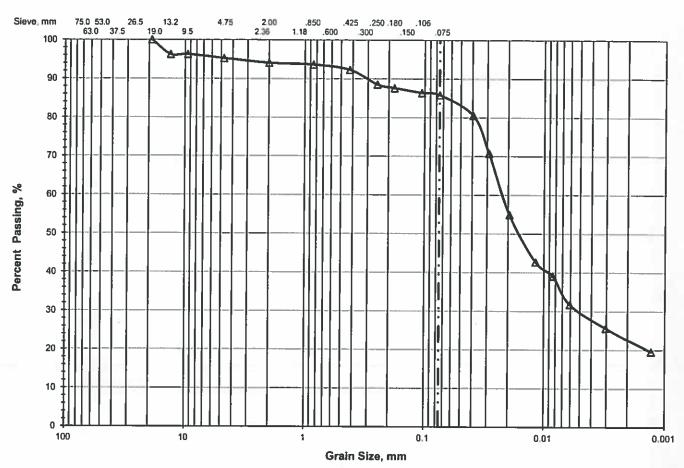
APPENDIX C
Sieve & Hydrometer Analysis





PARTICLE SIZE ANALYSIS

Client:Lloyd Phillips & Associates Ltd.File No.:170132Project:Hydrogeological Assessment & Terrain AnalysisReport No.:1Location:4835 Bank Street., Ottawa, ON.Date:May 8, 2017



Unified Soil Classification System

	> 75 mm	% GRAVEL			% SAND)	% FINES		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
Δ	0.0	0.0	4.8	1.2	1.8	6.5	63.8	22.0	

	Location	Sample	Depth, m	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	Cu
Δ	TP-1	3	1.80 - 2.00	0.0226	0.0164	0.0052				
										11
										-





PARTICLE SIZE ANALYSIS

ASTM D 422 / LS-702

Client: Lloyd Phillips & Associates Ltd. Project:

Location:

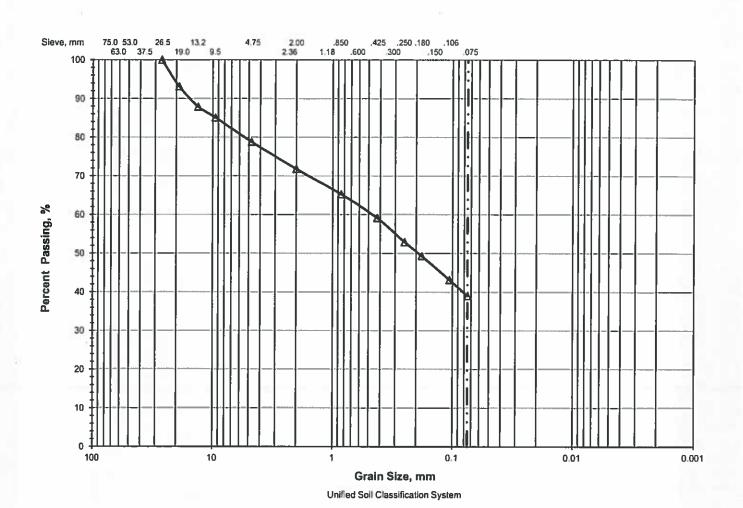
Hydrogeological Assessment & Terrain Analysis

4835 Bank Street., Ottawa, ON.

File No.:

170132 Report No.: 2

Date: May 8, 2017



	> 75 mm	% GR	AVEL		% SAN	D _.	% FINES
		Coarse	Fine	Coarse	Medium	Fine	Silt & Clay
Δ	0.0	6.0	15.3	7.0	12.7	20.1	39.0
			<u></u>				
				[[18.		

	Location	Sample	Depth, m	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	Cc	Cu
Δ	TP3	6	1.4 - 1.6	0.4855	0.1932					
								"-		
ĺ										



APPENDIX D Ontario Well Record Printouts

319/50.

UTM 1/18 2 41513171210 E



The Water-well Drillers Act, 1954

SEP 9 1957
ONTARIO WATER
RESOURCES COMMISSION

CON IV

Elev. 4 R 0131016

Department of Mines

Water-Well Record

101 21	44
County or Territorial District	reliter Township, Village, Town or City & Louis Ter
	in Village, Town or City)

Pipe and Casing Record

Pumping Test

Casing diameter(s) Static level / ft

Length(s) Pumping rate 200 1 Rt/

Type of screen Pumping level 30 6 t

Length of screen Duration of test 3 km

Well Log Water Record Depth(s) at which Kind of water From To No. of feet Overburden and Bedrock Record (fresh, salty, or sulphur) water(s)
found water rises Bolders and sand 20 60 50 Sand stone 20 60

For what purpose(s) is the water to be used?	•
4.	************
Is well on upland, in valley, or on hillside?	d
Drilling firm & R Correction Address /6 5 2 B are line City Thereof	1.0
Name of Driller IR Consults Address	!
Licence Number 3 9 1	•••••••••••••••••••••••••••••••••••••••

I certify that the foregoing statements of fact are true.

Date 39 aug 57 F. R. Conette

Location of Well

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

Barrett DR

GROUND WATER BRANCH Ontario Water Resources Commission Act ONTARIO WATER ESOURCES COMMISSION **TER WELL**Township, Village, Town or City..... Date completed 24 dress BILLINGS BRIDGE Casing and Screen Record **Pumping Test** Inside diameter of casing Static level Test-pumping rate Total length of casing Pumping level Type of screen Length of screen Depth to top of screen Recommended pumping rate Diameter of finished hole 30 feet below ground surface with pump setting of Water Record Well Log Kind of water Depth(s) at From ft. To ft. (fresh, salty, sulphur) Overburden and Bedrock Record which water(s) found CLAY Limestac 45 For what purpose(s) is the water to be used? Location of Well In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Licence Number 1.00 Name of Driller or Borer. Address (Signature of Licensed Drilling or Boring Contractor) Form 7 10M-62-1152 CSS.58 OWRC COPY



The Water-well Drillers Act, 1954

GROUND WATER BRANCH

asin 2/15-1 21		Department		MAY 24 19	
1	V ate:	r-We	ll Recor	ONTARIO WA	MISSION
County or Territorial District					
County of Territorial District			in Village, Town or C		
			Address	Faurane	It olla
(day)	(month)	(year)			
Pipe and Casing	Record			Pumping Test	-1.000 - 2000
Casing diameter(s)	1 /		Static level	6	
Length(s)	•••••••		Static level Pumping rate	800 J.P.	<i>t</i> /
Type of screen			Pumping level	95 17	
Length of screen	····		Duration of test	2 hv	
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 wate (fresh, salty or sulphur)
Aand	0	7	60	54	Fruit
Rolders and Sand	7	20		 	
Wil Dand stone	20	60			-
		-			
		-			
For what purpose(s) is the water	to be used?	1	In	cation of Well	2.5
	to	use.	In diagram below		f well from
Is water clear or cloudy? Is well on upland, in valley, or on			road and lot line	. Indicate north	by arrow.
is wen on upland, in valley, or on	Histo	and		1 Month	
Drilling firm 🗏 R C 5	vitte.				r
Address 2 Bare				/ec-	
Name of Driller Z. Q	11.	7.		*//	
Name of Driller				\mathcal{A}	
	•••••			<i>[!</i>	
Licence Number 3 9 5				608	
I certify that the i				•	The state of the s
Statements of fact Date 7/2/57 Signature		see	æ. 4	W 8.	
m 5		. J	Tahnatay Cors	↓ [[W
				The Contract of the Contract o	79

T UTM 1/8 Z 4/5/3/01/10 E 9 R 5101/16191910 N



GADEND MYER BRANCI

Elex. GR OSTSOLST Basin 215	The W	ater-well Dr Department	illers Act, 1954 of Mines	ONTAR	1 9 1957 10 Water COMMISSION
10+ 22	<u> </u>		ll Recor	d	
County or Territorial District	arlela	27Town	ship, Village, Town or	City.	rester
(&d(y)	(month)	(year)	n Village, Town or Address	ity)	radig 6
Pipe and Casir	ng Record			Pumping Test	
11 .				12	
Casing diameter(s)	····		Static level	2110 56	Į рц
Length(s)			Pumping rate	50 cel	
Type of screen			Pumping level		
Length of screen	•••••••		Duration of test	12000	
Well Lo	g	•		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)
			49 Se. 3	371	Tich.
hard wasty			74		Ley land
	0	18			
Clay & San					
Alboulders					
		-			
Very hard line	18	50			
		_\			
For what purpose(s) is the water	. /		L	ocation of Well	46
house had	111		In diagram below	show distances of	of well from
Is water clear or cloudy?		81	road and lot lin	e. Indicate north	The state of the s
Is well on upland, in valley, or or			4	Nouth Glo	ricesci;
afsland			3 %	4 .	
Drilling firm					
Address			65	70 feet	-> well
Name of Driller	Relle	2	,		
		7	10		
Address	Constitution in the	i	<u> </u>		
Licence Number 537			1		
I certify that the			1		
statements of fac					
7					
Date Jugal 5 Jams	Signature of Licen	see	t		£ 5
\mathcal{O}		no.dt	N,		

CSS.58

310/5-2	P	Land	OUND WATER	BRANCH	C
TM, 718 2 415 318,610 E		GRO		15 Nº	21
	urces	Commission A	NOV 141	1	/
Elever PAR TO131215 WATER WEL	LL	RECO	RIDS COL	MMISSION	
Basin 215 Carleton T					
County or District 4 R F Lot P. T. 22 I	Date co	ompleted C)	10	1961 year)
Lon				. Ottawa	
	ii es	5	Pumping		
Casing and Screen Record 6 3/16	Sto	tic level			
Inside diameter of casing		00 0-000000 00000 North \$1000 A000 A000 A000 A000 A000 A000 A00	80		G P 🛣
Total length of casing 21'	Pu	mping level	70'		
Type of screen	Du	ration of test p	umping	1 hr.	
Length of screen	w	ater clear or clo	udy at end of t	est clea	.r
Depth to top of screen	Re	ecommended p	imping rate	80	G.P.M
Diameter of finished hole	wi	th pump setting	g of80	feet belov	w ground surface
Well Log	1			Water	Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Till end Bilders zett. Grey hard lime	eton	0 0		85	fresh
and sand stone.	And Proposed Section 1	25	89		
SANGSTONE	-				
BOULDER TILL		O	16		
HARD GREY LIMESTONE		16	25		
5 May 5 Tone		25	89	85	FBESH
217 4056 62					
For what purpose(s) is the water to be used?			Location	of Well distances of we	ll from
Co-operative		In diagrai road and	lot line. Inc	licate north by	arrow.
Is well on upland, in valley, or on hillside?			N		
Drilling or Boring Firm J. B. Dufresne Co. Ltd.			150'	,	
	Accept		, (=	ഗ	
Address Ottawa, Ontario.			i i	2	
* al.		-	1.7m.		
Licence Number 194	1				
Name of Driller or Borer W. Roy					
Address Hull		N north	av I		
Date Oct 10/6		Jallane Corre	in		
(Signature of Licensed Drilling or Boring Contractor)		(1)	1	16	
Form 7 15M Sets 60-5930					
OWRC COPY				Ca.	J.::3
	1_i				

316/52 GROUND WATER BRANCH 15 No 1961 Ontario Water Resources Commission Act ONTARIO WATER RESOURCES COMMISSION ER WELL MLE TON Township, Village, Town or City Glove Es TEX Date completed 29 JUNE 6/ Con. ddress BILLINGS BRIDGE **Pumping Test** Casing and Screen Record Inside diameter of casing Test-pumping rate Total length of casing // // Pumping level Type of screen Duration of test pumping /HR Length of screen Water clear or cloudy at end of test ZCEAR Depth to top of screen Diameter of finished hole with pump setting of _____ 3 o ___ feet below ground surface Water Record Well Log Depth(s) at Kind of water From which water(s) (fresh, salty, Overburden and Bedrock Record found sulphur) 0 LOAM FAEY LOMESTINE 55 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm MI MEAGHER OTTAND Licence Number 5 Amé Name of Driller or Borer

OWRC COPY

Form 7 15M Sets 60-5930

Co. . . . 3

GROUND WATER BRANCH UTM /18 2 41513181010 E 5101/17|5|3|QN Ontario Water Resources Commission Act ONTARIO WATER ER WELL RECORDINGES COMMISSIONTownship, Village, Town or City Date completed 26 dress BILLINGS BRIDGE **Pumping Test** Casing and Screen Record Static level Inside diameter of casing Total length of casing Test-pumping rate Pumping level Type of screen Duration of test pumping 114R Length of screen Water clear or cloudy at end of test Depth to top of screen Recommended pumping rate Diameter of finished hole with pump setting of feet below ground surface Water Record Well Log Kind of water Depth(s) at From which water(s) (fresh, salty, sulphur) Overburden and Bedrock Record CLAY LIMESTON Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Licence Number Name of Driller or Borer (Signature of Licensed Dalling or Boring Contractor) Form 7 10M-62-1152 CSS.58 OWRC COPY

UTM 118 2 41513181410 E | 5 R | 5 0 1 1 1 7 8 15 10 N

Basin 215



The Well Drillers Act
Department of Mines, Province of Ontario

DEC = 6 1951 GEOLOGICAL SPANEN DEPARTMENT OF TIMES

Water Well Record

c level ping leve ping rate ation of t ance from Record	20 2 4 20 1 20 1 20 1 20 1 20 1 20 1 20	Horizon(s) 30' 60' 19'		No. of Fee
c level ping leve ping rate ation of t ance from Record	g G G G G G G G G G G G G G G G G G G G	Depth(s) to Water Horizon(s) 30' 60'	Kind of Water	No. of Feet Water Rise
Виг.	77.	Horizon(s) 30' 60' 19'	g a o o/	Water Rise
# Bun	77.	Horizon(s) 30' 60' 19'	g a o o/	Water Rise
<i>े हिंदत</i> water	7	30' 60' 19'	J ,,'	55
Bun water	<i>7</i>	19'	d .,	55
water			**	74'
water				
From				
From	1 70 1	Loc	ation of Wel	1
0 ft.	To .5ft.	In diagram l	below show dis	tances of
5-	20'		oad and lot li	
ъ		dicate north	by arrow.	
	<u> </u>	twy 31 Ollan		
	1/5	10	<i>→>ル</i> .	
		口名 1		
		* 5	4	
		Joyps	`.	
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	4	W 20	1-5	> -
		-700	2-6	
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	bur .	See 01	1513	XI,
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			See Oi	Su OVER



15/2/5/01/17/8/7 GHP Ontario Water Resources Commission Act

Elev. 4 R 03110

Basinty or District CAY	ETON
con 5 AP	I., 51

OWRC COPY

Township, Village, Town or City GLOUCE

Date completed 25

PARAVILA

C55.58

Casing and Screen Record	Pumping Test					
Inside diameter of casing 6 1/4"	Static level	14'				
Total length of casing 2/'3"	Test-pumping rate 3 G.P.M					
Type of screen	Pumping level	40				
Length of screen	Duration of test	pumping	1/2 HRS			
Depth to top of screen			of test CLEA			
Diameter of finished hole 6"	Recommended	pumping rat	e <i>3</i>	G.P.M		
	with pump setting	$_{ m ng}$ of \sim	6 feet belo	w 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)		
TOP SOIL	0					
CLAY SANDSTONE		98		Fresh		
3/4NR 3/0NE	6	7 8	80 -97			
For what purpose(s) is the water to be used? Ind U.S.T.ry			n of Well			
·····			w distances of wel adicate north by			
Is well on upland, in valley, or on hillside? Upland		N I	idicate north by	arrow.		
Drilling or Boring Firm MC LEAN WATER		IN.	101			
SUPPLY LTD. Address 1532 RAVEN AVE	l las	1	10			
			and the same of th			
OTTAWA, ONT.		1.5/s	ve Rd.	.		
Licence Number 2/54	1		150	,		
Name of Driller or Borer Louis Burrows		< 2	1) > 1/20			
Address	,	1				
Date APR. 26-1966		!				
(Signature of Licensed Drilling or Boring contractor)		1				
Form 7 15M-60-4138						

WATER RESOUNCES DIVISION UTM 1/18 2 41513191610 E No 15 DEC 1 4 1865 5 R 5 0 1 / 17 18 18 GHe Ontario Water Resources Commission Ac ONTARIO WATER Elev. 4 R 0300 OURCES COM Township, Village, Town or City.... Date completed 19 Casing and Screen Record Inside diameter of casing...... Total length of casing 20 Test-pumping rate Type of screen Pumping level. Length of screen Duration of test pumping / Depth to top of screen Water clear or cloudy at end of test Diameter of finished hole Recommended pumping rate G.P.M. with pump setting of 75 feet below ground surface Well Log **Water Record** Depth(s) at Kind of water From To Overburden and Bedrock Record which water(s) found (fresh, salty, sulphur) 0 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Licence Number Name of Driller or Borer Date Form 7 15M-60-4138 CS5.58 OWRC COPY

UTM 18 Z 4 5 4 1/1/10 E

SR 5 6 1 6 9 2 19 N Ontario Water Resources Commission Act

Eley. 4 2 0 3 4 3 WATER WELL RECORD

Basin 2 5 Township, Village, Town or Cit

Lot 23

WATER RESOURCES (
DIVISION 2250
JAN 1 9 1965

ONTARIO WATER
RESOURCES COMMISSION

Township, Village, Town or City GlovcesTer

Date completed 14 Dec 1964

(day month year)

dress Box 254 RRG, OTTawy

Casing and Screen Record		Pumping Test					
Inside diameter of casing 5"	Stat	tic level	20	٥'			
Total length of casing 10 '	Tes	t-pumping ra	ate	4	G.P.M		
Type of screen none	Pun	nping level	65-1				
Length of screen	Dur	ation of test	pumping	1/2 hrs	Lineares experience in accessor		
Depth to top of screen				of test Clou			
Diameter of finished hole 5"	Rec	ommended p	oumping rat	e 4			
	with	n pump settir	ng of 75	feet below	w ground surface		
Well Log	-		8	Water	Record		
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)		
10 am		0	2				
Hard Sandsvone		2	65				
Red Granite		65	79	60 - 79	fresly		
			,	n of Well			
For what purpose(s) is the water to be used?		In diagram		w distances of well	1 f		
Is well on upland, in valley, or on hillside? hillside Drilling or Boring Firm Mchean Water Supply Ltd Address 1532 Raven Ave Ottawa Licence Number 1328 Name of Driller or Borer H. Sally Address Date Decaty 1964			lot line. In	Road between wor 20421 - 0.55 Miles	arrow.		
(Signature of Licensed Drilling or Boring Contractor)					-		

Form 7 15M-60-4138

CSS.Sg

9: ... 251

WATER WELL RECORD

County or District Calleton	Town	ship, Village,	Town or City	Gloucester	····
Con. RF 5 Lot 2021	Date	completed	6 Decemb	er 1968	vaer)
	ddre	ess Long	Sault, Ont	ario	, , , , , , , , , , , , , , , , , , ,
Casing and Screen Record			Pumpir	ng Test	1700
Inside diameter of casing 6"	St	atic level			
Total length of casing 15 •	1				G.P.M.
Type of screennil					
Length of screen n/a	D	uration of test	pumping	1 Hour	*************************
Depth to top of screen	W	ater clear or c	loudy at end of	f test cloudy	
Diameter of finished hole	R	ecommended	pumping rate	10	G.P.M.
	w	ith pump setti	ng of 25 •	feet belo	w ground surface
Well Log				Wate	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Closely packed Boulders		0 •	13'		
Very Abrassive Sandstone		13 '	63'	60 '	fresh
For what purpose(s) is the water to be used? Trailer Sales Depot		In diagra	Location m below show	of Well distances of well	from
Is well on upland, in valley, or on hillside? Valley		road and	lot line. Ind	itcate north by	
Drilling or Boring Firm	G	LOVE I	TER	NORT	l* .
Blair Phillips Drilling Co. Ltd.,	"		2	1	
Address 1119 Relaise Road, Ottawa 5, Ontario.		-	. F.		
Licence Number 2779]:3	₹.	i i	
Name of Driller or Borer J. Moore		₩.	6	,' →	
Address Kars, Ontario			l -	LOT	LINE
Date 6 December 1968					
(Signature of Licensed Drilling or Boring Contractor)			П		
Form 7 OWRC COPY				CS5.35	

The Ontario Water Resources Commission Act WATER WELL RECORD

ater management in C	Interio 1. PRINT ONLY IN SP 2. CHECK CORREC	T BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CI	11 1 2 TY, TOWN, VILLAGE	1151	CON., BLOCK, TRACT,	SURVEY ETC.		C 23 LOT 25-27
CARL	つつか	GLO	COSTE	<u> </u>	9	DATE COM	PLETED //	023
		3 /	HIGHW	AY LEVATION	FITRUM RC. BASIN CODE	DAY / 5	мо.Д	YR. 1
2	10 12	916	920 4	10131412	30 31			
	5000	G OF OVERBURDEN	AND BEDRO	OCK MATERIA			DEPTH	- FEET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MA	TERIALS		GENERAL DESCRIPTIO	N .	FROM	то
BROWN	RUBBLE	(FILLED IN	4 LOT	TO HIGHW.	AY GRADE)		0	6
GREY	LIMESTON	Æ					6	52
	14 64 1 116-	rd d a dre	.] [.] .] .	111.!	. [, [] 1] .	In In II c		
31 0000	14 15	32/15	OPEN HOL	E PECOPD	SIZE(S) OF OPENING	65 31-33 DIAM	ETER 34-38	75
WATER FOUND AT - FEET	R RECORD KIND OF WATER FRESH 3 SULPHUR 14 SALTY 4 MINERAL	INSIDE DIAM. MATERIAL INCHES	THICKNESS INCHES F	DEPTH - FEET ROM TO 2020	MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN	FEET
15-18 1	FRESH 3 SULPHUR 19 SALTY 4 MINERAL FRESH 3 SULPHUR 24 SALTY 4 MINERAL FRESH 3 SULPHUR 29	2 GALVANIZEC 3 CONCRETE 4 OPEN HOLE 17-18 1 STEEL 2 GALVANIZEC 3 CONCRETE DOPEN HOLE	/88	0052	DEPTH SET AT - FEET FROM TO 10-13 14-1		n mer (RECOR
30-33	SALTY 4 MINERAL FRESH 3 SULPHUR SALTY 4 MINERAL	4 □ OPEN HOLE		27-30		3 80		
71 PUMPING TEST MET 10 PUMP STATIC LEVEL 19-21 19-21 TF FLOWING. GIVE RATE RECOMMENDED PUI SHALLOW	WATER LEVEL END OF PUMPING 15 MINUTE 15 MINUTE 15 MINUTE 15 MINUTE 15 MINUTE 16 MINUTE 17 MINUTE 18 MI	COLORA COMMINA	HOURS OF TEST 42	IN LO	DIAGRAM BELOW SHOW DIST	N OF WELL F		· V
FINAL STATUS	GPM./FT. SPEC	5 ABANDONED, IN			, A	m		/
WATER USE	5-56 1 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL D OTHER	5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR C	ONDITIONING NOT USED		25 V	aanse i valende aleks in daele gebruik en een een een een een een een een een	magazini magazini	
METHOD OF DRILLING	57 CABLE TOOL 2 ROTARY (CONVE 3 ROTARY (REVER 4 ROTARY (AIR) 5 AIR PERCUSSION	SE) 8 ☐ JETTING 9 ☐ DRIVIN	ND S	DRILLERS REMA				
NAME OF WELL	OLOUGHN	ξÝ	3701	DATA SOURCE DATE OF INS	58 CONTRACTOR 370 PECTION INSP	59-62 DATE RECEI	3027	1
NAME OF DRILL	FISHER MOLOUGH	WE V SUBMISSION DATI	LICENCE NUMBER	PENARKS.				PLW
SIGNATURE OF	Constant	DAY 11 MI	FAD 7	<u> </u>		* 1.1		WI



The Ontario Water Resources Commission Act WATER WELL RECORD

DUNTY OR DISTRICT	E. SHEON EX CORRE	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	151226,5 John BLOCK, TRACT, SURVEY, ETC.		22 OT :
Car	leton	Gloucester	5 RF	3 He	102
			DAY_2		YR.
		1116 RC. RC. P.	ELEVATION RC. BASIN CODE []		iv
	tc	DG OF OVERBURDEN AND BEDROO	26 30 31		
ENERAL COLOUR	MOST	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH -	-
	COMMON MATERIAL			FROM	T
Brown	Clay	Sand & Stones	Sandy Clay & Stones	0	_3
			Med. gray limestone	3	4
				+ +	1001
				1	
	1 5355			 	
		1		-	
			-		- 0
1)	بحدال باستطرم أداة		11 1 1 1 1 1 1 1 1 1 1	11.1	
	16/03/28/12/1904	<i>∖</i> ,			Ш
10	14 15	32	RECORD Z SIZE(S) OF OPENING 31-33 DIAM	ETER 34-38 LE	75 NGTH
TER OUND	R RECORD		RECORD Z SEE(S) OF OFERING 31-33 DIAM	INCHES	
10-13	FRESH 3 SULPHUR 14	INCHES MATERIAL THICKNESS FROM	TO WATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41
15.18	SALTY 4 MINERAL	06 2 GALVANIZED 3 CONCRETE	0012		FEE
	FRESH 3 SULPHUR SALTY 4 MINERAL	17-18 1 STEEL 19	20.23 DEPTH SET AT - FEET	· cen	COI
20-23	FRESH 3 SULPHUR 24	2 GALVANIZED 3 CONCRETE	FROM . TO MATERIAL AND	TYPE LEAD P	
	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	4 S OPEN HOLE 24-25 1 ☐ STEEL 26	0048 27-30 18-21 22-25		
30-33	FRESH 3 SULPHUR 34 80	2 ☐ GALVANIZED 3 ☐ CONCRETE	26-29 30-33 80		
MANAGE TEST METE	SALTY 4 MINERAL 10 PUMPING RATE	4 OPEN HOLE			
1 ,	² □ BAILER 000 E	15-16 17-19	LOCATION OF WE		-
STATIC LEVEL	WATER LEVEL 25	LEVELS DURING 2 RECOVERY	20 LOT LINE INDICATE NORTH BY ARROW.	ROM ROAD AND	
19-21	22-24 15 MINUTES	30 MINUTES 45 MINETES 60 MINUTES	A 1 1 1		
IF FLOWING,	OLS FEET THE FEET	FEET FEET FEET	21 1		
	GPM.	18 FEET CLEAR 2 CLOUDY	.515		
RECOMMENDED PUM	PUMP	43-45 RECOMMENDED 46-49 PUMPING PUMPING GPM.	W.		
50-53 Q.	QQ. 2 SPM /FT. SPECIFI	3	Hwy 102'x		
FINAL	WATER SUPPLY OBSERVATION WELL	5 ABANDONED, INSUFFICIENT SUPPLY		/	
STATUS	3 TEST HOLE	6 ABANDONED, POOR QUALITY 7 UNFINISHED	3/ 1/20	4'	
OF WELL	4 ☐ RECHARGE WELL	5 COMMERCIAL		LOT AL	ÛE
	DOMESTIC STOCK I PRIGATION	6 MUNICIPAL 7 PUBLIC SUPPLY		LOT LI	-
WATER	4 INDUSTRIAL	8 COOLING OR AIR CONDITIONING			
WATER USE (☐ OTHER				
USE (57	6 ☐ BORING			
USE (1 CABLE TOOL 2 ROTARY (CONVENT)		1 !		
USE O	1 CABLE TOOL 2 ROTARY (CONVENT) 3 ROTARY (REVERSE)	ONAL) 7 🗍 DIAMOND 8 🗎 JETTING 9 🗎 DRIVING			
METHOD OF	1 CABLE TOOL 2 ROTARY (CONVENTI 3 ROTARY (REVERSE) ROTARY (AIR) 5 AIR PERCUSSION	ONAL) 7 DIAMOND 8 JETTING 9 DRIVING	ORILLERS REMARKS: DATA 50 CONTRACTOR 59-62 DATE RECEIVE	D	63-
METHOD OF DRILLING	1 CABLE TOOL 2 ROTARY (CONVENT) 3 ROTARY (REVERSE) AIR PERCUSSION	ONAL) 7 DIAMOND 8 JETTING 9 DRIVING	DATA SR CONTRACTOR 59-52 DATE RECEIVE	50173	63-
METHOD OF DRILLING	1 CABLE TOOL 2 ROTARY (CONVENTI 3 ROTARY (REVERSE) 3 AIR PERCUSSION ONTRACTOR ONTRACTOR	ONAL) 7 O DIAMOND 8 O JETTING 9 D DRIVING LICENCE NUMBER 3002	DATA SB CONTRACTOR 59-62 DATE RECEIVE SOURCE 300.00 INSPECTOR INSPECTOR	50173	63-
METHOD OF DRILLING	1 CABLE TOOL 2 ROTARY (CONVENTI 3 ROTARY (REVERSE) 3 AIR PERCUSSION ONTRACTOR ONTRACTOR	ONAL) 7 DIAMOND 8 DISTING 9 DRIVING LICENCE NUMBER 3002	DATA SOURCE SOUR	1	63-1
METHOD OF DRILLING	1 CABLE TOOL 2 ROTARY (CONVENTI 3 ROTARY (REVERSE) 3 AIR PERCUSSION ONTRACTOR ONTRACTOR	ONAL) 7 DIAMOND 8 DISTING 9 DRIVING LICENCE NUMBER 3002	DATA SB CONTRACTOR 59-62 DATE RECEIVE SOURCE 300.00 INSPECTOR INSPECTOR	50173 P	Ϋ́

Well ID Number: 1512375 Well Audit Number: Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	GLOUCESTER TOWNSHIP
Lot	022
Concession	RF 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454020.70 Northing: 5017262.00
Municipal Plan and Sublot Number	_
Other	_

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	OBDN	SAND		0 ft	9 ft
WHIT	SNDS			9 ft	74 ft

Annular Space/Abandonment Sealing Record

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

Method of Construction & Well Use

Method of Construction	Well Use
Diamond	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	GALVANIZED		20 ft
	OPEN HOLE		74 ft

Construction Record - Screen

Outside Diameter Material Pepth Depth From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1703

Results of Well Yield Testing

After test of well yield, water was	_CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	8 GPM
Duration of Pumping	2 h:0 m
Final water level	12 ft
If flowing give rate	
Recommended pump depth	35 ft
Recommended pump rate	8 GPM
Well Production	PUMP
Disinfected?	_

Draw Down & Recovery

6 ft		
	1	
	2	
	3	
	4	
	5	
	10	
12 ft	15	
	20	
	25	
12 ft	30	
	40	
12 ft	45	
	50	
12 ft	60	
	12 ft 12 ft	3 4 5 10 12 ft 15 20 25 12 ft 30 40 12 ft 45 50

Water Details

Water Found at Depth	Kind
74 ft	Fresh

Hole Diameter

From To	_ *	Depth To	Diameter
---------	-----	-------------	----------

Audit Number:

Date Well Completed: November 27, 1972

Date Well Record Received by MOE: March 07, 1973

Updated: February 2, 2018

Rate Rate

Share facebook twitter Print

Tags

• Environment and energy,

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act

LETRIM (NER ISUNNAME FI I I NERAL COLOUR BYOWN BYOWN	Ottame - Culid (RST) D - OP OF ONTAN 28-47 0 - OP OF ONTAN 1 1/15 1 1/15 2 1/15	TOWNSHIP, BOROUGH, CITY, TOWN. GLOUCESTER ADDRESS	A	CON. BLOCK. TRACT SURVEY ETC.	,12	22 23 ½ OT 25-27
NERAL COLOUR	D - OP OF CHEAR)	NT ADDRESS		To Ki		
NERAL COLOUR Brown	ZONE 45.3	R. R. #6 OK		DATE	n	
Brown	: 1,18 14.53	MORTHUNG	RC. ELEVATION	RC. BASIN CODE II	16 No. (/8	YR. 73
Brown	GOUCHSTER GOLDON COLOR OF CHEMANA CHARLES SEE MERCHONS GOLDON COLO					
Brown		OG OF OVERBURDEN AND	BEDROCK MATERI	ALS (SEE INSTRUCTIONS)	DEPTH	. FFFT
		OTHER MATERIALS		GENERAL DESCRIPTION		****
Brown	Top Seil	0 4000 as 0.3900		Seft	0	4
	Soil	Boulder		Hard	4	12
Grey	Limestone	Clay		Soft Perous		510-1-1
White	Limestone	Limestone Grey		Medium Hard	16	50
14) WA ATER FOUND ATER FOUND ATER FOUND ATER FOUND ATER FOUND 2 15-16 1 2 25-26 1 2	TERRECORD KIND OF WATER FRESH 3 SULPHUR 14 SALTY 4 MINERAL 24 SALTY 4 MINERAL 24 SALTY 4 MINERAL 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 SALTY 4 MINERAL 24 FRESH 3 SULPHUR 24 SALTY 4 MINERAL 25 SALTY 4 MINERAL 25 SALTY 4 MINERAL 25	S1 CASING & OPEN	HOLE RECORD SEST FROM TO	2 SIZE SIZ	DEPTH TO TOP OF SCREEN	FEET ORD
2	SALTY 4 MINERAL	4 OPEN HOLE				
STATIC LEVEL 19- 14 FE 19- 16 FEOWING GIVE MATE FECOMENDED P STATUS OF WELL WATER USE METHOD	BAILER COOS WATER LEVEL END OF END OF END OF END OF END OF BA-41 PUMP INTAKE JOHN DEEP RECOMMENDE PUMP SETTING OBSERVATION WE COMMEND COMME	LEVELS DURING LEVELS DURING 28	G IN LOT STATE OF THE PROPERTY	DIAGRAM BELOW SHOW LIST NEES OF THE INDICATE MORTH BY ARROW.	BLL FROM GOAD	
HAWT ADDRESS NAME OF DRIE	L CONTRACTOR HORNE DRILLING 1 4218 STATION "E	CONTAVA ONTARIO SUBMISSION DATE SUBMISSION DATE	DATA OF SOURCE O	\$6 CONTRACTOR 59-62 DATE R	28 09 7	9

MINISTRY OF THE ENVIRONMENT

WINISIKI OF	THE ENVIRONMENT	
The Ontario V	Water Resources Act	50
WATER WE	ELL RECORD3	
153 F. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		

Ontario	1. PRINT ONLY IN S	SPACES PROVIDED		514664.	10 14	RF.	1 04
OUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN			CON., BLOCK, TRACT, SURVE	FI	022
VNER (SURNAME) FIRS	7 1 24-47	ADDRESS #	2)	AL.	- 0.4	DAY 20 M	48-53 2 YR. 25
<u> concelie</u>	100 4 53:	793 501 709	0 4 6	EVATION P	c. BASIN CODE	111111	1 1 1 1 1
1 -	" 10 12	G OF OVERBURDEN AND	24 25 2	6 3	0 31		4
NERAL COLOUR	HOST COMMON MATERIAL	OTHER MATERIAL		T	ENERAL DESCRIPTION	FRO	DEPTH - FEET
	C \ C - \	Boulder		De	se	C) 13
Hack.	SLO	1,500,120,		1.57	57.A.	13	30
Sten	Limston			5	- J. lane	30	, 111
white	Sandstone			<u> </u>	ر لمت،		125
	\						
2 10 WAT 10 WAT	TER RECORD KIND OF WATER FRESH 3 SULPHUR 14 SALTY 4 MINERAL FRESH 3 SULPHUR 24 SALTY 4 MINERAL FRESH 3 SULPHUR 25 SALTY 4 MINERAL	CASING & OPEI	N HOLE REC	13-16 SS 20-23 6	SIZE(S) OF OPENING ISLOT NO)	DEPTH TO STREET	FEET
DUMPING TEST MET	THOO 10 PUMPING RAT	4 ☐ OPEN HOLE E 11-14 DURATION OF PUMPING			LOCATION	OF WELL	1217
STATIC LEVEL 19-21 0 2 FEET IF FLOWING. BECOMMENDED PU SHALLOW	PUMPING 22-24 IS HINUTES 02-0-1 38-41 PUMPINTAKE GPM RECOMMENDI	28 02 C3-31 02 032-34 (SET AT WATER AT END OF TES TO FEET 1 1 CCEAR 2 TO FEET 1 ACCOMMENDED PUMPING TO THE P	OZ 537	LOT LINE.	BELLOW SHOW DISTANCE INDICATE NORTH BY	ARROW.	OAD AND
FINAL STATUS OF WELL WATER USE	S-S6 DWATER SUPPLY 2 OBSERVATION WE 3 TEST HOLE 4 RECHARGE WELL 2 STOCK 3 IRRIGATION 4 WINDUSTRIAL	# ABANDONED, INSUFFICIE ABANDONED, POOR QUAL UNFINISHED S. COMMERCIAL MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIONI	JITY			20'	
METHOD OF 4 DRILLING-	57 CABLE TOOL 2 ROTARY (CONVE) 3 ROTARY IREVERS			TO THE REMARKS:	750'- 🔁	to tur	h
NAME OF WELL ADDRESS NAME OF DRILL STATES	CONTRACTOR CONTRACTOR CONTRACTOR	Stat E. LICENCE	NUMBER S	REMARKS:		DATE RECEIVED	75 °°



The Ontario Water Resources Act WATER WELL RECORD

	SPACES PROVIDED RECT BOX WHERE APPLICABLE	171654.	المالية المالية الأوالية
COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SU	RVEY, ETC. LOT
OWNER (SURNAME FIRST) 28 47	AODRESS # 21	04. 04	DATE COMPLETED 44.53
21 EASTING	NOMENTAL RC	ELEVASION RC BASIN CODE	
1 2 4 10 12	OG OF OVERBURDEN AND BEDRO	76 50 31	
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
Brown Sand Grand	Boulders.	Dense	0 13
Black Shale		lange.	13 30
Grey Limston		Sound!	30 111
White Sandstone		Sound	111 125
Λ			
,			
31	لدا بليالييا ايابيليا	إحاليبا ليلتالينا	ا لطبلباليدياليا
32	LEE CASING & AREN MOLE	RECORD SIZE(S) OF OPENING	31-33 DIAMETER 34-38 LENGTH 39
WATER FOUND KIND OF WATER	MATERIAL THICKNESS	DEPTH - FEET	DEPTH TO TOP 41-44
10-13 1 RESH 3 SULPHUR 16	10-11 1 DETECT 12	OM TO OM MATERIAL AND TYPE	DEPTH TO TOP 41-44 OF SCREEN
15-14 1 1 TRESH 3 SULPHUR 19	64 GALVANIZED 188 C	> Z2 · 61 PLUGG	ING & SEALING RECORD
20-23 1 - FRESH 3 - SULPHUR 24	17-18 1 STEEL 19	20-21 DEPTH SET AT - FEET FROM TO	MATERIAL AND TYPE CEMENT GROUP LEAD PACKER, ETC I
2 SALTY 4 MINERAL 25 28 FRESH 3 SULPHUR 29	5/8 3 CONCRETE 2		
2 SALTY 4 MINERAL 30-33 , FRESH 3 SULPHUR 38	24-25	27-30 18-21 22-25	80
2 SALTY 4 MINERAL PUMPING TEST METHOD 10 PUMPING BA	4 [] OPEN HOLE		
71 1 DATUMP 2 1 BAILER 12	GPN 15-16 15 17-18 HOURS 15 41NS	LOCATION	
- PUMPING	1	LOT LINE. INDICATE NORTH B	Y ARROW.
F 20 20 10	2031 2037 2037 2037		to.
Z IF FLOWING 38-41 PUMP INTAK	WATER AT END OF TEST 42	South Glowert	0.04
RECONMENDED PUMP TYPE RECONNEND PUMP	DED 43-45 RECOMMENDED 46-49		
SO-53 SPALLOW SPEEP SETTING	PECIFIC CAPACITY		
FINAL 1 WATER SUPPLY 2 OBSERVATION W	5 ABANDONED, INSUFFICIENT SUPPLY FELL 6 ABANDONED, POOR QUALITY		
OF WELL 4 TEST HOLE	, D UNFINISHED		
55-56 DOMESTIC	S COMMERCIAL S MUNICIPAL		
USE IRRIGATION USE OTHER	7 DELIC SUPPLY 8 COOLING OR AIR CONDITIONING 9 NOT USED	750' = 2	-le'
57 1 CABLE TOOL	6 D BORING	750'	\
METHOD 2 D ROTARY (CONVE	ENTIONAL) 7 DIAMOND	180	Vis.
DRILLING 6 PERCUSSION	O DRIVING	DRILLERS REMARKS:	
NAME OF WELL CONTRACTOR	LICENCE HUNBER	Source Se CONTRACTOR S	2.62 NATE RECEIVED
DOMESS DOWN 4218 NAME OF DRILLER OR BORER TO STATE OF DRILLER OR BORER TO STATE OF DRILLER OR BORER	cl 1 5	Source Source INSPECTION INSPECT	
NAME OF DRILLER OR BORER	Stat L	SO REMARKS:	P
STEAT THE OCCONTRACTOR	SUBMISSION DATE	BSO BENARKS	wı
	DAY 24 NO. 2 YR.25	<u> </u>	FORM 7 MOE 07-0

MINISTRY OF THE ENVIRONMENT COPY

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act R WELL RECORD Ontario 1. PRINT ONLY IN SPACES PROVIDED 15002 2. CHECK I CORRECT BOX WHERE APPLICABLE 454143 21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST COMMON MATERIAL GENERAL COLOUR OTHER MATERIALS FROM TO Brown Hed So. 100 50 3 0 3 135 31 ليلتللتنيا لتتبليلتني لتلتلتاني لتلتليني لتلتليني لتلتلينيا لتلتيا لتلتايا 32 2. WATER RECORD 51 CASING & OPEN HOLE RECORD KIND OF WATER FRESH 3 SULPHUR 2 SALTY 4 MINERAL 0105 GALVANIZED CONCRETE OPEN HOLE FRESH 3 SULPHUR SALTY 4 MINERAL 188 61 **PLUGGING & SEALING RECORD** DEPTH SET AT - FEET 1 () STEEL 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL MATERIAL AND TYPE (CEMENT GROUT GALVANIZED ONCRETE OPEN HOLE 0/35 20 1 | FRESH 3 | SULPHUR 2 | SALTY 4 | MINERAL 1 D STEEL 2 GALVANIZED # SALTY 4 MINERAL 26-29 CONCRETE 30-33 LOCATION OF WELL 1 B PUNP Z [] BAILER IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW. Troselver 020 PUMPING IF FLOWING MP TYPE RECOMMENDED 43-45 POMP SETTING FEET GPM./FT. SPECIFIC CAPACITY FEET 1 MATER SUPPLY S ABANDONED. INSUFFICIENT SUPPLY FINAL. 2 OBSERVATION WELL ABANDONED POOR QUALITY STATUS . TEST HOLE 7 UNFINISHED OF WELL 4 T RECHARGE WELL 1 DOMESTIC 5 COMMERCIAL USE 0 2.85m IRRIGATION INDUSTRIAL T PUBLIC SUPPLY COOLING OR AN CONDITIONING DIAMOND OTHER I CABLE TOOL METHOD 2 ROTARY (CONVENTION 3 ROTARY (REVERSE) DRILLING BAIR PERCUSSION

ONLY

USE

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CONTRACTOR

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Untario •		ONLY IN SPACES	PROVIDED X WHERE APPLICABLE		1516	052	4	م گرار	02	RF		1 05
COUNTY OR DISTRICT			WNSHIP, BOROUGH, CITY	TOWN VILLAG	3	9	CON.	BLOCK, TRACT	SURVEY, ET	· 17		022
Carleton		8-47	Gloucester	I				5	R-5-	TE COMPLET	160	-22 48-53
	Investors			dler Er	- O+	tawa.	N	2B 5H7		, 13	₽ 7	YR.77
(i)		\$ 409	9 5077	29 9	2 3	430	**	ASIN CODE	1	n i	- Oii	l IV
	, 10 C		Ü 501, 1. ±	24	25 26		30	3,10				47
ļ.,	MOST	LOG O	FOVERBURDEN	AND BED	ROCK M	ATERIA	LS (SEE)	NSTRUCTIONS	1		nr hv	H - FEET
GENERAL COLOUR	COMMON MATE	RIAL	OTHER MAT	ERIALS			GENER	AL DESCRIPT	ON		FROM	TO
brown	sand		clay & bou	lders		fill					0	7
black	muck		1000			soft					7	9
	hardpa		boulders			pack	ed				9	26
grey	1000		DOGAGOZO			medi					. 26	43_
grey	limest											6 I 7/5
grey	sandst	ONB				hard					43	178
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32 0007	G280513	1 1 1	385 0026	4/4/2/	y ort	24/3		41/8KM	13			ш
10	ER RECORD	51	CASING & C	DENUGL	- L	<u>,, , , , , , , , , , , , , , , , , , ,</u>	SIZEIS	54 I DE OPENING NO I	31-33	DIAMETER	34-36	75 80 LENGTH 39-40
WATER FOUND	KIND OF WATER	INSID	£	WALL THICKNESS	DEPTH - I		Z (SLOT	NO I			INCHES	T. FEET
AT - FEET	FRESH 3 SULF	HUR 14		THICKNESS INCHES	FROM	то	SC HATE	HAL AND TYPE		DE I	PTH TO TOP SCREEN	41-44 80
				188	0 0	28""	<u> </u>					FEET
	FRESH 3 SULF	RAL 06	CONCRETE		28 -	478	61		GING &	SEALIN		750,000 E
	FRESH 3 SULF	HUR 24	Z GALVANIZED		,	20-21	FROM	ET AT - FEET	MATER	IAL AND TY		PACKER, ETC.)
25-28 1 🗆	FRESH 3 SULF	HUR 29	OPEN HOLE			17g	10	13 14-	17	usowia		
	SALTY 4 MINE		4-25 1 STEEL 26 2 GALVANIZED			27-30	16		l l			
1 🗆	FRESH 3 SULF		3 ☐ CONCRETE 4 ☐ OPEN HOLE				26-	29 30-1	3 80			
71 JUMPING TEST NETH	,	MPING BATE	1:-14 DURATION OF PUR				L	OCATIO	N OF V	WELL		-
STATIC	WATER LEVEL 25	0015	. 40	PUMPING	4	IN DIA	GRAM BELO	w show Dis	TANCES OF	WELL FRO	M ROAD	AND
LEVEL	END OF PUNPING	WATER LEVELS D		RECOVERY	41	LOT LI	NE. IND	CATE NORTH	BY ARROW		11	
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315 Ea The Ontario Water Resources Act
WATER WELL RE Ministry of the Environment 1517349 Ontario 2. CHECK S CORRECT BOX WHERE APPLICABLE ..80 .09 7699 0305 26 1.1.1 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) COM MON MATERIAL GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION 0 22 00086021281 00276211273 Lilling Lilling 31 32 41 WATER RECORD 51) CASING & OPEN HOLE RECORD WATER FOUND KIND OF WATER WALL # DEPTH - FEET SALTY | NINERAL 06:01 0027 GALVANIZEO 1 FRESH 3 SULPHUR
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2 G OBSERVATION WELL
3 TEST HOLE S ABANDONED, INSUFFICIENT SUPPLY FINAL STATUS 7 UNFINISHED OF WELL . TRECHARGE WELL DOMMERCIAL DONESTIC STOCK WATER 3 | IRRIGATION USE 05 4 | INDUSTRIAL OTHER . I NOT USED 1 D ABLE POOL
2 A ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE) BORING METHOD OF ■ ☐ JETTING
■ ☐ DRIVING DRILLING A D ROTARY (AIR) DRILLERS REMARKS LICENCE NUMBER CONTRACTOR

NAME OF WELL CONTRACTOR

ADDRESS

NAME OF DILLER ON BOWER

SIGNATURE OF CONTRACTOR

SUBMISSION DATE

DAY

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TO THE PROPERTY OF THE PROPE

MINISTRY OF THE ENVIRONMENT COPY

DATA SOURCE | SE CONTRACTOR 181-62 DATA 200 980 63-64 60 151.7 | SE CONTRACTOR 185 PECTOR 185 PECTO

FORM NO. 0506-4-77

Ministry of the Environm	ent	e.**	WATE	ER W 517349	ELL RE	ECO	RI
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25-28 1 D FRE	SH 3 SULPHUR "	4 □ OPEN HO		23-30	36-21 12-25		
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NAME OF WELL COM	TRACTOR		LICENCE NUMBER	> DATA SOURCE	SE CONTRACTOR & SS 42 UAN	2098	30
	ine Cy	for	15/7-	SOURCE DATE OF INSPECTI	ON PHEFECTOR		
o man							
ADDAESS QUE		ont.		w l			
ADDRESS AND ADDRES	selvon -	ont.	FICENCE NUMBER				

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0506 (11/98) Front Form 9

Ministry of the Environment

Print only in spaces provided. 1531693 ISOOS CON 105 11 Mark correct box with a checkmark, where applicable. Con block tract survey, etc. Lot Township/Borough/City/Town/Village County or District Glarces ter DHA 10 00 month year 18 24 25 26 30 30 21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet Other materials General golour Most common material To From 0 3 graves 3 Sandstone 220 Secy CASING & OPEN HOLE RECORD Kind of water Depth at top of screen Fresh Sulphur Minerals Gas Material and type Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 188 22 214 **PLUGGING & SEALING RECORD** Annular space ☐ Fresh ☐ Salty Sulphur Depth set at - feet Minerals Gas 834 From 0 20 ☐ Fresh ☐ Salty Comont yout 1 Steel
2 Galvanized Minerals Gas 1 | Fresh 4 2 | Salty 6 ☐ Sulphur ☐ Minerals ☐ Gas 220 20 LOCATION OF WELL Pump 2 🗆 Bailer GPM In diagram below show distances of well from road and lot line. Static level Water level 1 🗆 Pumping Indicate north by arrow. end of pumping 30 feet 120 to If flowing give rate ☐ Clear Recommended 43-45 pump setting /20 feet Recommended pump type Recommended pump rate FINAL STATUS OF WELL 5 Abandoned, insufficient supply 9 Unfinished
5 Abandoned, poor quality 10 Replacement well
7 Abandoned (Other)
9 Dowstering Water supply
Water supply
Conservation well
Test hole
Electrical WATER USE

1 Domestic
2 Stock
3 Irrigation
4 Irridustrial 9 🗆 Not use METHOD OF CONSTRUCTION 57 5 Air percussion
6 Boring
7 Diamond
8 Jetting Cable tool
Rotary (conventional)
Rotary (reverse)
Rotary (air) 9 Driving
10 Digging
11 Other 222862 Well Contractor's Licer ONLY source JAN 0 3 2001 Date of inspection USE

Well Technician's Licence

TZIZZ Submission date Q_aZ hl Op MINISTRY

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

153356.6

Municipality	Con.	^-
Municipality 15002	RF	05

County or District	a Carl	iton	Township/Bo	orough/City/	Town/Villag	99		Con block	tract surve	, etc. L	٧/
			Address	lou (00	RC Elev	ont RC	Basin Code	Date completed	day C	nonth year
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2 [sliny S Gaz	9" by	Open hole Plastic Steel	88	O	20-23		LUGGING 8		RECORE	
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2 [☐ Fresh 3 ☐ Sulphu ☐ Salty 4 ☐ Mineral ☐ Gas	S 24-25	5 ☐ Plastic 1 ☐ Steel 2 ☐ Galvanized			27.30	213 2	22.25	mer	J91	Out
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71 Pumping test n	nethod ¹0 Pumpi □ Bailer	ng rate 9 11-14 GPM	Duration of pumping	17-18 Mins				TION OF W			
_ Static level	Water level and of pumping 25 Water level 25 Water	[[[[[[[[]]]]]]]] [[[[]]]] [[[]] [[]] [30000000000000000000000000000000000000	Recovery minutes			n below show on the by arrow.	distances of	well from r	oad and lo	t line.
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If flowing give r	GPM	intake set at fee		12 Cloudy							
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FINAL STATU		54 andoned, insufficient s	upply ⁹ □ Unfinished			F	BI	25K	2-1		
2 Observati 3 Test hole 4 Recharge	ion well 6 Ab	andoned, poor quality andoned (Other) watering	19 Peplacem				·2Km	7	3:1		
WATER USE	. □ Co	55-56 mmercial	9 □ Not use					T 5	30.		
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Name of Well Contr	CLDI.	uglot	Well Contractor's	Licence No.	ONLY Sou		Se Contractor	19 spector	MAR	312	003
Name of Well Tech	1 Kich	mond	Well Technician's	Licence No	ISE .	narks					
Signature of Techni	non-Pu	Vell	Ta 1-	→	MINISTRY				(CSS.E	S3
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0506 (07/00) Front Form 9

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

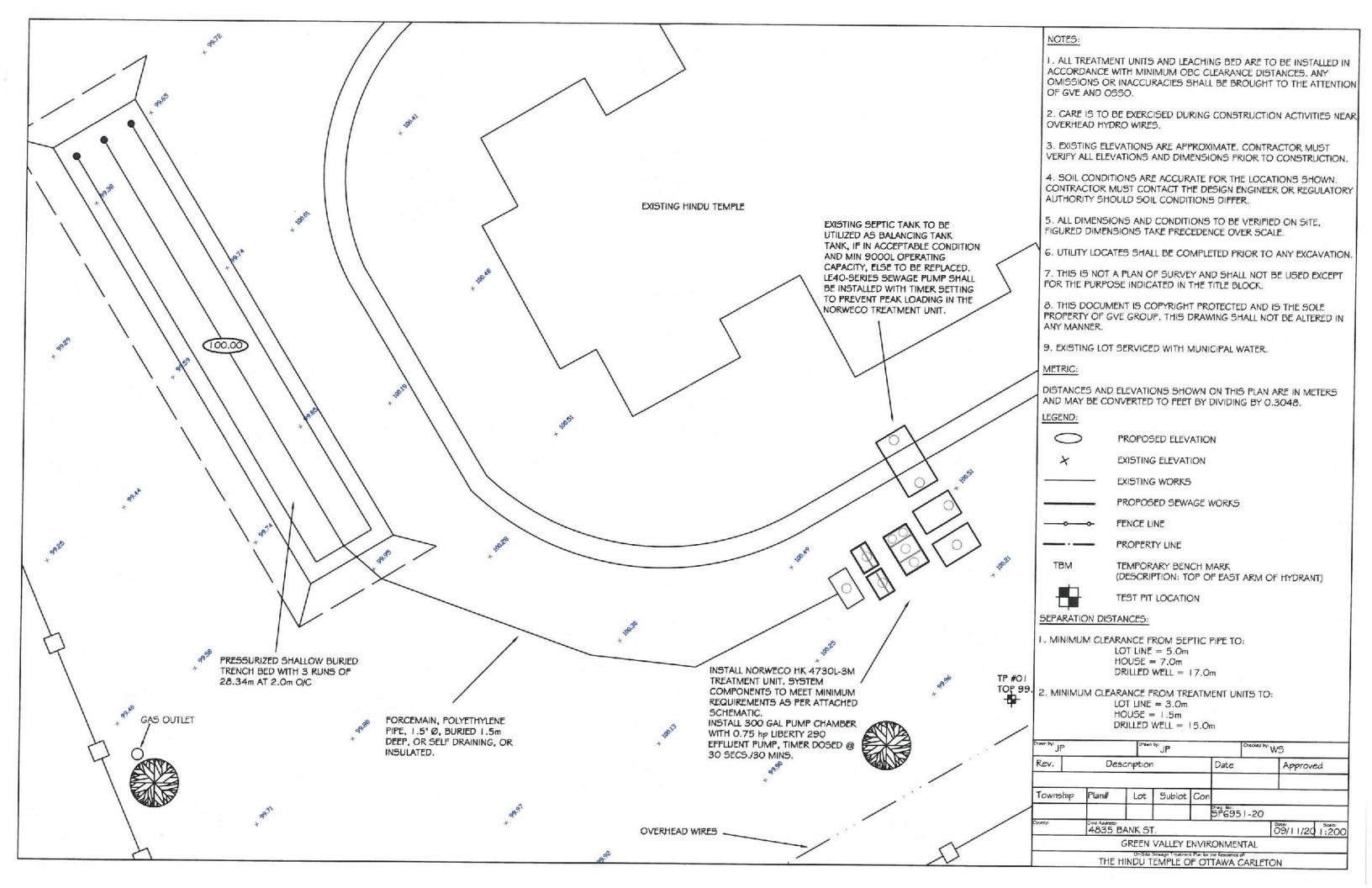
Well Record

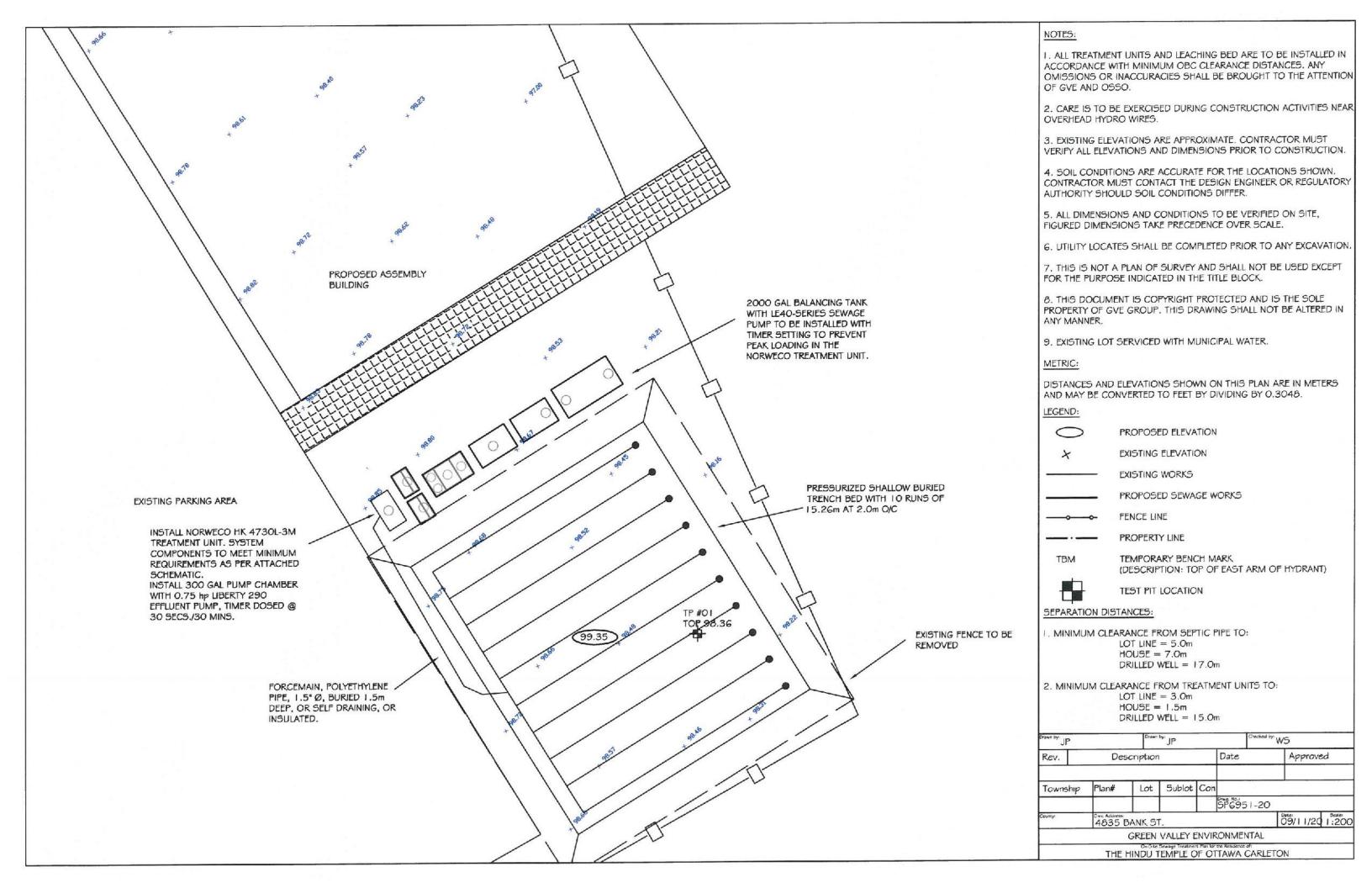
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egulation 903 Ontario Water Resources Act

Well Owner's First Name		ist Name		E	-mail Address						Well Co	nstructed
Airport G	olfland			ala alit		Province	Docto	l Code	Ī		by Well	Owner area code)
Mailing Address 6357 Emer	(Street Number/Name,)	RR)		eely		Ontar	A 10 20 73 7	P 1M	- NO			468
Part A Constr	uction and/or Major	Alteration o	273753				The state of the s			Concessio		
Address of Well Hwy 31	Location (Street Number	r/Name, RR)		Township Glouces	ster		Lot	20		5		
County/District/N	Municipality			City/Town/Vi	llage			1.5	Provini Onta		Postal	Code
Ottawa Ca UTM Coordinates		. Northing		Glouces GPS Unit Make	Section (SC)	Mo	ide of Operation			rentiated	Av	eraged
NAD 8 3		50180	088	0,000,000	Garmi	n 🗆	Differentiated, s	pecify_	000000000000000000000000000000000000000	A LOUIS INCOME.	1000	02152X00.
AND DESCRIPTION OF THE PARTY OF	nd Bedrock Materials			of this form) Materials		Gor	neral Description	in.				(Metres)
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Grey	Limestone					3000 000	um Hard				4.57	42.66
Grey	Limestone		Candata	a Lavore		Hard	9				42.66	52.72
Grey	Limestone		Sanustoi	ne Layers		Hare						
	Annular Space/	and the second second second second second second	The second section of the second		(East 2005)	Charle				ld Testin		Recovery
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						state If pumping di	iscontinued, give	reason	Level 1	10,100	75 Level	10.10
						D			2	6.	2000	18.19
						Pumping tes Subi	mersible		3	8.	0	Fro 1900
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Cable Tool	Diamond entional)	☐ Public	100	STREET THE STATE OF THE STATE O	Not used Dewatering	Pumping rat	45.71 te (Litres/min)		5	11.	18	14.50
Rotary (Reve	rse) Driving	Livestoc	k 🔲 Te	st Hole [Monitoring		54.6		-	12.	29	13.32
Rotary (Air) Air percussion	□ Digging a □ Boring	☐ Irrigation ☐ Industria		poling & Air Cond	morang	Duration of 3 hrs			10	16.	2-	9.44
Other, specify	y	Other, s				Final water k	evel end of pump	oing	15	18.		7.38
₩ater Supply		Well	_ o	oservation and/or		2000 Carrest	21.37 ded pump type	1	20	19.		6.24
Replacement Test Hole		, Insufficient Su , Poor Water Qu	1000	teration (Constru ther, specify	ction)	Shallov			25	20.		5.61
Recharge We	ell Abandoned	, other, specify	27 28 1252	300/A 9/200		30.47	ded pump dept	n	30	20.	94 30	5.18
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 detailed drawin vidigital picture 	ngs can be provided as att as of inside of well can also	achments no lar be provided	ger than legal	size (8.5" by 14"	*	(Litres/min)	J. Committee		60	22.	14 60	
L								-	r Deta		102	104
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to		!				Water four	nd at Depth	Kind	of Wa		Sulphu	r [] Minera
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P						Steel	Stee	al .	tr	1.5 Depth of the	39 Hole (Me	tras
Date Well Cor	mpleted Was the well ov	ner's informatio	n Date the	e Well Record an	d Package	Fibreglas	ss Fibr				2.72	
(yyyy/mm/dd)	package delivere		Delivere	ed to Well Owner		Concrete				Wall Thickn	ess (Metro	s)
2008/07/	/14 Well Contractor						sing and Scre	en Use	d		eter of the	Casing (Metre
	e of Well Contractor			and the same of th	or's Licence No.	Disinfected				Depth of th	5.86 Casing (Metres)
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Box 490		Business E-		Stittsvil	1e	Audit No.		Ministr		e Only Contracto	r No.	
Province Ontario	Postal Code K2S 1A6	office	@ capit	alwater.c	a	Z	7739					om/dell
Bus.Telephone	No. (inc. area code) Name	of Well Techn liller, S	ician (Last N	ame, First Name	∍)	001	ved (yyyy/mm/dd 1 4 2008	,	Date	of Inspect	on (yyyy//	mrpud)
	's Licence No. Signature	of Technician	1	Date Submitt 2008/	led <i>(yyyy/mm/dd</i> 07/16	() Remarks						
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APPENDIX E Proposed Sewage System Layout





APPENDIX F

Moisture Surplus Printout

Ot t awa_50mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY... 50 MM HEAT I NDEX. . . 36.41 LOWER ZONE..... 30 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 31- 7 13.0 - 1 18.3 - 19 9 20.8 - 41 31-8 19.5 - 34 30-9 14.6 - 9 31-10 8. 1 - 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 105 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 8 7 1. 2 1.3 31- 8 30- 9 1.5 31-10 1.4 22 30-11 1.7 31-12 3.0

Ot t awa_75mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY... 75 MM HEAT I NDEX. . . 36.41 LOWER ZONE...... 45 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 - 10 31- 7 20.8 - 32 31- 8 19.5 - 32 30-9 14.6 - 9 31-10 8. 1 - 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 84 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30-9 1.5 31-10 1.4 22 30-11 1.7 31-12 3.0

Ot t awa_100mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...100 MM HEAT I NDEX. . . 36.41 LOWER ZONE..... 60 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 31- 7 13.0 18.3 - 4 20.8 - 21 31-8 19.5 - 29 30-9 14.6 - 8 31-10 - 1 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 63 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

31-12

3.0

Ot t awa_125mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...125 MM HEAT I NDEX. . . 36.41 LOWER ZONE..... 75 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8. 8 - 2. 7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 - 1 31- 7 20.8 - 13 31-8 19.5 - 25 30-9 14.6 - 7 31-10 8. 1 - 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 47 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON PCPN PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

31-12

3.0

Ot t awa_150mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...150 MM HEAT I NDEX. . . 36.41 LOWER ZONE..... 90 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8. 8 - 2. 7 30- 4 5. 9 31- 5 30- 6 31- 7 13.0 18.3 20.8 - 8 31-8 19.5 - 19 30-9 14.6 - 6 31-10 8. 1 - 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 34 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON PCPN PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 8 7 1. 2 1.3 31- 8 30- 9 1.5 31-10 1.4 22 30-11 1.7

31-12

3.0

Ot t awa_200mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...200 MM HEAT I NDEX. . . 36.41 LOWER ZONE......120 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8. 8 - 2. 7 30- 4 5. 9 31- 5 30- 6 31- 7 13.0 18.3 20.8 - 3 31-8 19.5 - 11 7 30-9 14.6 - 4 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 18 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

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3.0

Ot t awa_225mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY... 225 MM HEAT I NDEX. . . 36.41 A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8. 8 - 2. 7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 - 2 31-8 19.5 - 8 7 30-9 14.6 - 4 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 14 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

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3.0

Ot t awa_250mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...250 MM HEAT I NDEX. . . 36.41 1.075 A. DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 - 1 31-8 19.5 - 6 7 30-9 14.6 - 3 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 10 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

31-12

3.0

Ot t awa_265mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY... 265 MM HEAT I NDEX. . . 36.41 A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8. 8 - 2. 7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 - 1 31-8 19.5 - 5 7 30-9 14.6 - 3 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 9 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1.2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

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Ot t awa_275mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...275 MM HEAT I NDEX. . . 36.41 1.075 A. DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 - 1 31-8 19.5 - 4 7 30-9 14.6 - 2 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 7 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1.2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7 31-12 3.0

Ot t awa_280mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...280 MM HEAT I NDEX. . . 36.41 1.075 A. DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 - 1 31- 8 19.5 - 4 7 30-9 14.6 - 2 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 7 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30-9 1.5 31-10 1.4 22 30-11 1.7

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Ot t awa_300mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...300 MM HEAT I NDEX. . . 36.41 1.075 A. DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2.7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 31- 8 19.5 - 3 7 30-9 14.6 - 2 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 5 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30-9 1.5 31-10 1.4 22 30-11 1.7

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Ot t awa_400mm_WBNRMSD. t xt WATER BUDGET MEANS FOR THE PERIOD 1950-2010 Ottawa Airport, ON DC20492 LAT. . . . 45.32 LONG. . . 75.67 WATER HOLDING CAPACITY...400 MM HEAT I NDEX. . . 36.41 LOWER ZONE......240 MM A. 1. 075 DATE TEMP (C) PCPN RAIN MELT PΕ ΑE DEF SURP SNOW SOLL ACC P - 10.6 31- 1 28- 2 31- 3 - 8.8 - 2. 7 30- 4 5. 9 31- 5 30- 6 13.0 18.3 31- 7 20.8 31- 8 19.5 - 1 - 1 30-9 14.6 31-10 8. 1 30-11 1.3 31-12 - 7. 0 AVE 5.9 TTL - 2 STANDARD DEVI ATI ONS FOR THE PERI OD 1950-2010 DC20492 Ottawa Airport, ON **PCPN** PΕ DATE TEMP (C) RAIN MELT ΑE DEF SURP SNOW SOLL ACC P 31- 1 3.0 28- 2 31- 3 2. 6 2. 3 30- 4 1.7 31- 5 30- 6 31- 7 1.9 1.2 8 8 1. 2 1.3 31- 8 7 30- 9 1.5 31-10 1.4 22 30-11 1.7

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APPENDIX G Norweco Hydro Kinetic Specifications

norveco®

HYDRO-KINETIC[↑] GREEN WASTEWATER TREATMENT SYSTEM

WITH SERVICE PRO F CONTROL CENTER

SPECIFICATIONS

GENERAL SPECIFICATIONS

The contractor shall furnish and install one complete Hydro-Kinetic Green wastewater treatment system with all necessary parts and equipment as described in the following specifications. Treatment of the domestic wastewater shall be accomplished by the extended aeration process with non-mechanical flow equalization, pretreatment of the influent and filtration of the final effluent. The treatment system shall provide primary, secondary and tertiary treatment of the wastewater flow, denitrification, and if required, chlorination/dechlorination or ultraviolet disinfection of the effluent prior to discharge. All treatment processes shall be contained within tankage which shall be manufactured using high density polyethylene resin. The wastewater treatment system shall be a Hydro-Kinetic Green as manufactured by Norweco, Inc., Norwalk, Ohio, USA.



The wastewater treatment system shall include high density polyethylene tankage providing separate pretreatment, anoxic, aeration, clarification and final filtration chambers. The tankage shall be furnished with a Schedule 40 PVC inlet hub, submerged transfer ports, access risers with removable covers, molded plastic vent assembly, molded receiving flange and Schedule 40 PVC outlet hub. Principal items of electro-mechanical equipment supplied with the Hydro-Kinetic Green system shall be an air pump, recirculation pump, UL Listed Service Pro Model 801P electrical control center with MCD technology, flow equalization device and Hydro-Kinetic Bio-Film Reactor for final filtration of system effluent.

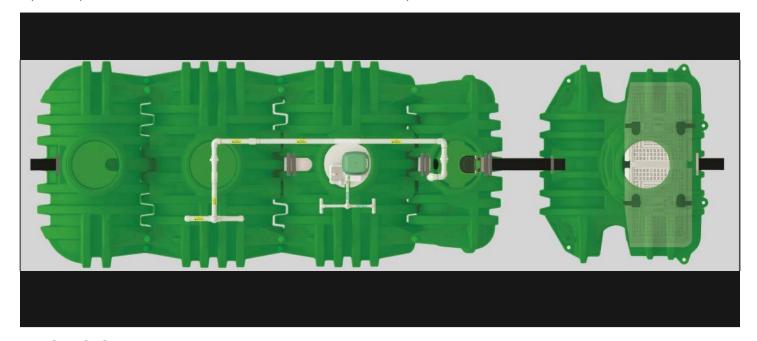
HYDRO-KINETIC®

OPERATING CONDITIONS

Total holding capacity of the system shall provide a minimum of 85 hour retention of the daily flow. The pretreatment chamber shall provide at least 18 hour retention, the anoxic chamber shall provide at least 24 hour retention, the extended aeration chamber shall provide at least 24 hour retention, the clarification chamber shall provide at least 7 hour retention and the Hydro-Kinetic Bio-Film Reactor shall provide at least 12 hour retention of the daily flow. The non-mechanical flow equalization device shall increase individual chamber and total system retention time in direct proportion to loading. Design of the system shall include a compartmented tank and non-mechanical flow equalization device to insure successful treatment performance without upset even when the significant runoff period is six hours. Hydraulic design considerations of the system and flow equalization device shall be such that intermittent peak flow factors as high as four shall not upset hydraulic reliability within the system. Capability of the system to perform as outlined, when built by an approved manufacturer, shall be certified by an independent testing laboratory and approved for use by the local governing regulatory agency.

PRETREATMENT CHAMBER

The pretreatment chamber shall be an integral part of the wastewater treatment system. All domestic wastewater shall be preconditioned and flow equalized while passing through the pretreatment chamber prior to being introduced to the anoxic chamber. The outlet of the pretreatment chamber shall be equipped with a discharge tee that extends vertically into the liquid so that only the preconditioned flow from the center area of the chamber is displaced to the anoxic chamber. The discharge tee and transfer port shall be of adequate size to handle a peak flow factor of four without restricting the outlet and disturbing hydraulic displacement to the anoxic chamber. A removable inspection cover shall be incorporated into the top of the pretreatment chamber to allow tank and transfer tee inspection.



ANOXIC CHAMBER

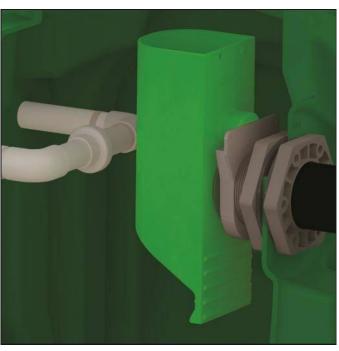
The anoxic chamber shall provide in excess of 24 hour retention of the equalized daily flow. In the anoxic chamber, low oxygen levels shall compel facultative heterotrophic bacteria to use nitrate-bound oxygen in their respiratory process. Nitrified liquid from the clarifier shall enter the chamber in measured doses and nitrogen compounds shall be converted to harmless nitrogen gas which shall escape into the atmosphere. Overall design of the chamber shall insure that effective mixing and suspension of the biomass is maintained in an anoxic condition to insure consistent biological denitrification. Systems that have not been performance certified to reduce Total Nitrogen (TN) more than 50% shall not be considered for this application.

AERATION CHAMBER

The extended aeration chamber shall provide in excess of 24 hour retention of the equalized daily flow. The chamber shall be of sufficient size to provide a minimum of 80 cubic feet of tank capacity per pound of applied BOD. The aeration chamber shall be an integral part of the system flow path and configured to insure effective mixing of microorganisms, wastewater and fresh air. No area of the chamber shall be isolated from process mixing, thereby eliminating dead or quiescent areas of the treatment chamber which are detrimental to the treatment process. Influent into the aeration chamber shall be preconditioned, equalized flow from the anoxic chamber.

FINAL CLARIFICATION CHAMBER

The final clarification chamber shall consist of 5 functionally independent zones operating together to provide satisfactory settling and clarification of the equalized flow. An inlet zone shall be provided and shall dissipate transfer turbulence at the flow inlet of the clarification chamber. Liquid is then displaced into the hopper zone of the clarifier. In this zone, settling by gravity takes place. Three of the four sidewalls are slanted to form a hopper which directs all settled material back to the settled sludge zone. A recirculation pump in the settled sludge zone shall transfer a portion of the wastewater back to the anoxic chamber. Clarified liquid from the hopper zone shall be displaced into the final settling zone to provide additional clarification of the liquid. The liquid is finally displaced to the outlet zone where the treated effluent shall pass through the flow equalization device and be discharged from the final clarification chamber.



FLOW EQUALIZATION DEVICE

The system shall include a non-mechanical, demand use, flow equalization device. The device shall be installed with the design flow equalization port located below the normal liquid level of the clarifier. If intermittent flow rates exceed the capacity of the design flow port, flow shall be held upstream until the intermittent flow dissipates. If the intermittent flow continues to increase, the liquid level may reach a sustained flow equalization port. With both ports in use, flow through the system increases while continuing to provide flow equalization to upstream and downstream processes. A peak flow equalization port is supplied but should not be required in a properly sized system. The device shall control normal residential flow rates



and reduce typical residential flow surges. The flow equalization rate shall be dependent upon the specific loading pattern and the duration of flow surges. At the 600 GPD (gallons per day) NSF Standard 40/245 design loading schedule, minimum performance of the device shall equalize daily flow an average of 50%.

HYDRO-KINETIC BIO-FILM REACTOR

Significant reduction of organic matter shall occur in the treatment system prior to the Hydro-Kinetic Bio-Film Reactor. The Bio-Film Reactor shall provide final treatment of the effluent to a near pristine state. Flow equalized liquid from the clarifier shall enter the influent chamber, travel down and be evenly distributed beneath the Reactor Elements. The effects of gravity shall cause solids to settle to the bottom of the tank. As liquid travels up through the proprietary attached growth media, further reduction of organic matter shall take place. Additional settling and consolidation of solids shall take place downstream of the filter media. After passing through the filtration media for final polishing, the highly treated liquid shall flow into the final effluent zone before exiting the Bio-Film Reactor through the outlet tee.

GREEN

SERVICE PRO® MODEL 801P ELECTRICAL CONTROL CENTER

The Model 801P control center with MCD technology shall provide Monitoring, Compliance and Diagnostic functions for the treatment system. The pre-wired controls shall be mounted in a lockable NEMA rated enclosure designed specifically for outdoor use. The control center shall be a UL Listed assembly and shall include a time clock, alarm light, reset button, power switch, power light, phone/network light, recirculation pump light, air pump light, high water light and auxiliary alarm light. A pre-programmed time clock shall control the recirculation pump to insure that approximately 400% of the average daily flow is returned to the anoxic chamber. The control center shall monitor recirculation pump current, air pump operation, high water and auxiliary alarm circuitry. In the event of an alarm from the air pump or auxiliary input, the audible and visual alarms shall activate and the optional telemetry system shall report the condition. If abnormal operation of the recirculation pump is detected, a diagnostic sequence shall



begin and the visual alarm shall activate. After a factory programmed recovery interval, an automatic restart attempt shall be initiated. If normal pump operation does not resume during 24 programmed recovery and restart cycles, the audible alarm shall activate and the optional telemetry system shall report the condition to the Service Pro monitoring center.



SERVICE PRO! MONITORING CENTER

The Service Pro monitoring center shall include a 256 bit encrypted password protected website for interface with the monitoring center database. Access to the secure website shall be obtained through a unique user name and password that provides tiered access to data from monitored treatment systems. Access level tiers shall include dealers, service providers, regulatory agencies and individual system owners. Dealers and service providers shall be able to create accounts, enter serial numbers for system equipment, maintain service records and grant regulatory agencies access to the information. The monitoring center shall have the capability to schedule future service inspections and provide notification. Individual system owners shall be able to view information regarding their own systems, as well as download instructional information. Integrity of stored data shall be maintained through the use of multiple servers operating in geographically isolated locations.

MODEL AT 1500 ULTRAVIOLET DISINFECTION SYSTEM (Optional)

The Hydro-Kinetic Green system shall be furnished complete with a Model AT 1500 ultraviolet disinfection system. The AT 1500 system shall incorporate a turbulence inducer and dual-pass design to insure bacteria receive maximum exposure to the ultraviolet light source. The ultraviolet disinfection system shall be UL Listed under Standard 979 as a residential treatment device and shall include a disinfection chamber, turbulence inducer, extension riser, quartz tube with Teflon cover, ultraviolet bulb and controls. An interlock switch shall be furnished to automatically disable the ultraviolet light source when the disinfection chamber is accessed. Ultraviolet disinfection systems without a residential UL Listing have not demonstrated compliance with international electrical standards for safety and reliability and shall not be considered for this application.

SPECIFICATIONS

CERTIFIED PERFORMANCE

The wastewater treatment system shall be certified to operate for 12 consecutive months at the rated daily capacity without routine service. This performance shall be demonstrated by a continuous 12 month evaluation performed by an independent ANSI accredited, third-party testing facility. The evaluation shall consist of 2 consecutive ANSI/NSF Standard 40 and 245 evaluations, including the stress sequences, with no maintenance allowed in between. The system shall also be certified by a SCC accredited, third-party testing facility to BNQ Standards CAN/BNQ 3680-600 and NQ 3680-910. For the entire certification protocol, the system shall achieve a total test average of less than 5 mg/L Biochemical Oxygen Demand (CBOD), less than 5 mg/L Total Suspended Solids (TSS), and greater than 50% reduction of Total Nitrogen (TN) in the effluent. Systems unable to meet these effluent quality parameters for at least 12 months of continuous testing by independent ANSI and SCC accredited, third-party testing facilities without service do not provide the desired level of effluent quality or service frequency, and shall not be considered for this application.



AIR PUMP

The air pump shall be configured to allow remote mounting or installation within the mounting riser above the aeration chamber. When installed in the access riser, fresh air shall be supplied through a vented, injection molded, heavy duty, glass-filled polypropylene access cover above the air pump. Fresh air shall enter the air pump through a filter located under the housing cover and be introduced below the liquid surface through a prefabricated diffuser assembly. Only the plastic diffuser assembly and the air piping shall be installed in contact with the liquid. The air pump shall be wired for 115 volt, single phase, 60 cycle operation. The air pump shall include impact-resistant rubber diaphragms and valves which prolong operational life. The



unique design and construction shall provide easy maintenance, excellent cooling and quiet operation. The air pump shall continue aerating and mixing the aeration chamber even during high water conditions. Treatment systems that interrupt air delivery during high water conditions disrupt biological activity and shall not be considered for this application.

RECIRCULATION PUMP

The submersible recirculation pump shall be wired for 115 volt, single phase, 60 cycle operation and shall be installed in the clarification chamber. Operation of the submersible recirculation pump shall be controlled by the Service Pro control center. The pump shall periodically recirculate nitrified liquid from the clarification chamber to the anoxic chamber. The pump shall be designed to be non-overloading throughout the entire pump curve and shall draw less than 8 full load amps. The pump motor shall contain moisture resistant windings and shall be securely mounted inside an oil-filled, watertight housing for maximum pump life. The stator housing and casing shall be of high grade cast iron, stainless steel or thermoplastic construction.

BLUE CRYSTAL CHLORINATION SYSTEM (Optional)

The Hydro-Kinetic Green system shall be furnished complete with a tablet feeder and a six month supply of Blue Crystal disinfecting tablets. Blue Crystal tablets shall be specifically formulated for consistent chlorine dosage and effluent disinfection to the sustained, variable and intermittent flows that are typical of domestic wastewater treatment systems. The tablets shall be manufactured from pure calcium hypochlorite and contain a minimum of 70% available chlorine. Each tablet shall be 2% diameter, compressed to a 1" thickness, weigh approximately 5 ounces and be white in color with blue crystals for easy identification. The tablets shall dissolve in direct proportion to the flow rate, releasing controlled amounts of chlorine.

BIO-MAX DECHLORINATION SYSTEM (Optional)

The Hydro-Kinetic Green system shall be furnished complete with a tablet feeder and a six month supply of Bio-Max dechlorination tablets. The dechlorination tablets shall contain 92% sodium sulfite as the active ingredient and shall be specially formulated to chemically neutralize both free and combined chlorine. Each tablet shall be 25% diameter, compressed to a 13/16" thickness, weigh approximately 5 ounces and be green in color for easy identification. The tablets shall dissolve slowly, releasing controlled amounts of chemical for the instantaneous removal of residual chlorine from the system effluent.

LIMITED WARRANTY

The wastewater treatment system shall be covered by a two year limited warranty. The air pump, recirculation pump, Service Pro Model 801P control center and any other Hydro-Kinetic components purchased from the manufacturer shall be warranted to be free from defects in material and workmanship, under normal use and service, for a period of two years from the date of purchase. A warranty registration card shall be attached to the system before shipment from the factory. A means to register the wastewater treatment system for warranty protection via the internet shall be provided by the manufacturer for the convenience of the dealer, customer and regulatory agency. The dealer shall provide details of the limited warranty to the regulatory agency, contractor and customer as required.

EQUIPMENT MANUFACTURER

The equipment specified herein shall be the product of a manufacturer having a minimum of seven years experience in the construction of prefabricated wastewater treatment equipment and systems. Bids shall be prepared on the basis of the equipment and material specified herein for purposes of determining the low bid. This is not done, however, to eliminate other products or equipment of equal quality and efficiency. If equipment is to be substituted, approval of such substitution must be made prior to execution of any order. It is assumed that substitution will result in a reduction of cost to the contractor and that if accepted, these savings will be passed along by a reduction in the base bid.

PROGRESS THROUGH SERVICE SINCE 1906



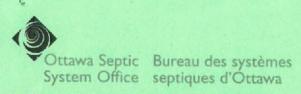
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Engineering the future of water and wastewater treatment

220 REPUBLIC STREET NORWALK, OHIO, U.S.A. 44857-1156 TELEPHONE (419) 668-4471 FAX (419) 663-5440 www.norweco.com

Norweco.k, Norweco.com, Singulair, Modulair, Travalair, Singulair R3, Singulair Green, Ribbit Rivet, Hydro-Kinetic, Hydro-Kinetic Bio-Film Reactor, Evenair, Lift-Rail, Microsonic, Bio-Dynamic, Bio-Sanitizer, Bio-Neutralizer, Bio-Kinetic, Bio-Static, Bio-Gem, Bio-Max, Bio-Perc, Blue Crystal, Phos-4-Fade, Enviro-C, ClearCheck, ChemCheck, Tri-Max, Hydra-Max, Service Pro, MCD, TNT, WASP, Grease Buster, and "BUSTER" logo, are registered trademarks of Norwalk Wastewater Equipment Company, Inc.

APPENDIX H
OSSO Approval



EMATLONLY
SEPTIANA

3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5

Phone: 613-692-3571 PRE	SS "4" for septic office	1-800-267-3504 Fax: 61	3-692-1507 Email: septic@r	vca.ca
SITE ADDRESS: 4835	Bank Street	Township:OSG-H	UN-GLO-FIT-CUM-NEP-GOU-R	ID-KAN-TOR
CONT. 07. 1	2			

INFORMATION FOR OWNER/APPLICANT

Attached is your Sewage System Permit. A minimum of two inspections are required before your proposed sewage system can be approved for use (additional inspections may be required for clay soils/bedrock and/or reinspections). Inspections must be requested in writing. Please see attached:

- Inspection fax request form (all inspections MUST be requested in writing)
- · As-built components and drawing form
- Copy of the approved application and schedule pages
- Approved Part 8 permit: *Electronic copy only Be sure to INCLUDE in Building Application Package for Plans Examiner at CITY of OTTAWA client services, if NEW or RENO construction project.

Special Note

- A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, it may be renewed only once for a period of 12 months from the date of expiry.
- No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without notifying, filing details with and obtaining the authorization of the Chief Building Official. (Building Code Act 1992, c.23, s.8(12))

Sewage System Permit Construction Requirements

1. Clay Soils/Bedrock only (if required per issued Approval)

In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill.

2. Installation Inspection - 2nd inspection

When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted:

- a) "as-built components" and "as-built drawings" see attached form
- b) "engineer letter" if the system is engineered
- c) grain size analysis and weight bills for all Filter Media types of septic systems
- d) Weigh bills for washed septic stone, where applicable
- e) Maintenance/service contract for treatment unit installed

3. Final Grading Inspection – 3rd inspection

When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be complete:

- a) The leaching bed and septic tank must be covered with sand fill and topsoil and graded accordingly
- b) All conditions of the Sewage System Permit & comments on the installation inspection report must be met
- c) The depth of cover & material type must be identified by inspection pipes or holes placed over trenches at 4 corners of bed
- d) The 4 corners of the bed must be staked

JULY 2020

Location: 2:Administration templates\CoverPart8page

LETTER OF AUTHORIZATION 21-343

		7 3
Owner:	Harish Gupta The	Hindu Temple of Otlans Corleton
Address: 4	835 Bank St	
G	locester on KIXIGO	6
	,	
Phone No.: (61	3) 737-5939	Cell No.: (613) 866 2984
Work No.:		Fax No.:
LOCATION	OF PROPERTY:	
LUCATION	OF PROPERTY:	
Lot	No.: 22	_ 1
Concession	No.: 5RF	
Sub lot/Part	No.:	_
R. Plan	No.: 5R 3156	
Civic Add		
Municipa	ality: Gloucester	
Roll	ACCEPTED TO THE STORY OF THE ST	
Commer	cial: (provide description of building and intended use)	-
	Eastly Bulding	-
		-
I, the above –	mentioned authorize Green Va	lley Environmental Services to act as my
agent to apply	for and obtain a sewage system	n permit from the responsible Approval
Agency.	1.	* * * * * * * * * * * * * * * * * * * *
	111 11.1	
Signature:	Marfill	Date: 7.66.2621

RVCA RECEIVED FEB 18 2022

Application for a Permit to Construct or Demolish

This form is authorized under subsection 8(1.1) of the dufferg Code Act, 1992 REFER TO: For use by Principal Authority Application number: Permit number (if different): 21-343 Date received: OTTAWA Roll number: OTTAWA SEPTIC SYSTEM OFFICE Application submitted to: (Name of municipality, upper-tier municipality, board of health or conservation authority) A. Project information Building number, street name Unit number Lot/con. 4335 Bounk St. 22/5 Municipality Postal code Plan number/other description Glovcester 5R3156 KIX 166 Project value est. \$ Area of work (m2) B. Purpose of application New construction Addition to an Alteration/repair Demolition Conditional existing building Proposed use of building Permit Current use of building ommercial Worship Bulding ommercial Worship Bulding Description of proposed work Install replacement Septic System for existing Commercial Worship Bulding Revision to Permit 21-343 C. Applicant Applicant is: Owner or Authorized agent of owner Last name First name Corporation or partnership Environmental Street address Unit number Lot/con Postal code Province E-mail K4M IAT ON Engineering@gvegroup.ca Cell number Telephone number (613)692-2616 (613)69Z-180Z D. Owner (if different from applicant) First name Corporation or partnership Gupta Harish The Hindu Temple of Ottania (Street address Unit number 4335 Bank Municipality Cloucester 22/5 Postal code Province

ON

KIX 1G6

Telephone number

(613) 737-5939

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

(613) 366-2984

Cell number

har.sh gee@yahoo.Com

E. Builder (optional)	RVCARE	12 600 750		
Last name	First name Corporation or FEB 1 8 2072	nartnarchin	(if applicable)	
	FEB 18 2022	partnership	(ii applicable)	
Street address		U	nit number	Lot/con.
	REFER TO:		SED.	
Municipality	Postal code Province	E-	SEP:	HC FILE
Talanh			71	-
Telephone number	Fax	Ce	ell number	343
E Total III		()	Train
r. Tarion warranty Corporation (Or	ntario New Home Warranty Program)			· MWA
Plan Act? If no, go to section G.	home as defined in the Ontario New Home Wa	nranties	Yes	No L
	Ontario New Home Warranties Plan Act?			
	The state of the s		Yes	No L
iii. If yes to (ii) provide registration nur	mber(s):			
G. Required Schedules		16.00.55.00.0		
	o reviews and takes responsibility for design act	tivition		
i) Attach Schedule 2 where application is to	construct on-site, install or repair a sewage sys	ivities.		
		tem.		
H. Completeness and compliance w This application meets all the requirement	rith applicable law ants of clauses 1.3.1.3 (5) (a) to (d) of Division C (
schedules are submitted). Payment has been made of all fees that a	the correct form and by the owner or authorized the application and required schedules, and all the application and required by-law, resolute Building Code Act, 1992, to be paid when the	required	Yes	No
resolution of regulation made under claus	ans and specifications prescribed by the applica se 7(1)(b) of the Building Code Act, 1992.		Yes	No
 This application is accompanied by the inflaw, resolution or regulation made under of the chief building official to determine whe contravene any applicable law. 	formation and documents prescribed by the applications of the Building Code Act, 1992 whether the proposed building, construction or dem	sich anable	Yes	No
 The proposed building, construction or der 	molition will not contravene any applicable law.		Yes .	No
Declaration of applicant		10,000,000,000	280 92HQL103H	
Jacob Proner				
(print name)			decla	re that:
2. If the owner is a corporation or partner	ership. I have the authority to bind the corporation	on or partne		attached
ersonal information contained in this form and set		b of	~	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act*, 1992, and will be used in the administration and enforcement of the *Building Code Act*, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor, Toronto, M5G 2E5 (416) 585-6666.

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

FEB 18 2022

SEPTIC FILE#

Schedule 1: Designer REFER TO: Use one form for each individual who reviews and takes responsibility for design activities with respect to the project A. Project information Building number, street name Lot/con.ZZ/5 Unit no. Bank Municipality Gloucester Postal code KIXIG6 Plan number/ other description 5R3156 B. Individual who reviews and takes responsibility for design activities Name Environmental Street address Lot/con Municipality E-mail eng: nceri Cell'number North Province ON Telephone number Fax number (613) 692-1802 16131692-2616 Design activities undertaken by individual identified in Section B. [Bullding Code Table 3.5.2.1. of Division C] House HVAC - House **Building Structural** Small Buildings **Building Services** Plumbing - House Large Buildings Detection, Lighting and Power Plumbing - All Buildings Complex Buildings Fire Protection On-site Sewage Systems Description of designer's work replacement Septic System for existing Commercial worship B. Iding Revision to Parmit 21-343 D. Declaration of Designer Jaco b declare that (choose one as appropriate): (print name) I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4 of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories Individual BCIN: 113751 I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code. Individual BCIN: Basis for exemption from registration: The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification; I certify that: The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm.

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of
 authorization, issued by the Association of Professional Engineers of Ontario.

Signature of Designer

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

RVCA RECEIVED

SEPTIC FILE 3 21-343

FEB 18 2022 Schedule 2: Sewage System Installer Information

A. Project Information	100	Street And Street Stree		A STATE OF THE PARTY OF THE PAR		
Building number, street name 4423	Bank St.	The state of the s	Unit number	Lot/con		
Municipality Glovester	Postal code	T.D.		Laticon 22/5		
Glovister	K12 166	Plan number/ other	description 5 R 31	51		
s. sewage system installer		TAX TO BE A SECOND				
s the installer of the sewage system engemptying sewage systems, in accordance Yes (Continue to Section C)		iness of constructing on- Code Article 3.3.1.1, Division (Continue to Section E	i) Installer	unknown at time of tion (Continue to Section		
Registered installer information	n (where ans	wer to B is "Yes")	THE STATE OF STATE			
Green Valley E			BCIN 1123	, 4		
Street address 6107 First	Line Rd		Unit number	Lot/con.		
elephone number	Postal code K 4M 1A7	Province ON	E-mail Cell number			
613) 692 - 2616	Qualified supervisor information (where answer to section B is "Yes")					
mo of audition	n (where ans	wer to section B Is "	Yes")			
ame of qualified supervisor(s)		Building Code Identific	ation Number (BCIN)			
13:11 Sabrook		11234				
. Declaration of Applicant:						
Jacob Pruner						
(print name)				declare that:		
I am the applicant for the permit to shall submit a new Schedule 2 proof. OR I am the holder of the permit to coils known.	TOT TO COMBINACIO	on when the installer is k	tnown;			
ertify that:						
The information contained in this s	chedule is true	to the hest of my knowled	das			
2. If the owner is a corporation or par				hin		
			Polation of partiers	mp.		
Date February 7	202Z	Signature of applicant	Furb (h	7		



Ottawa Septic Bureau des systèmes (170). System Office septiques d'Ottawa Do Not populete
Permit #
Revision # 1 3 4 3

Schedule 4 Proposed Services Complete Sections 1 thru 7

1. Engineered Yes No	2. Water supply Proposed Existing
3. Type of work proposed New Installation Replacement Alteration	4. Type of Well Dug/bored/Sandpoint well Drilled well Municipal Other
5. Residential Sewage Design Flow Info. Bedrooms House (floor area)	6. Sewage Design Flow Other Occupancies Design Flow 1865 L/day Detailed sewage flow calculations: Worsh.p b. 1d:ng no food preparation (500 People 500 A B = 4000 3 A 275 = 825 May 4 3 Apartment person cap Class 4 - BMEC Area Bed (Schedule 11)
7. Type of System Treatment Unit Norwece Hk 5670 - 50 Class 2 - Leaching Pit Class 3 - Cesspool Class 4 - Shallow Buried Trench Fully raised Partially raised In-ground Class 4 - Filter Media (Schedule 10) Fully raised Partially raised In-ground In-ground	☐ Fully raised





Do Not Complete Permit # 21-343 Revision # OTTAWA

Schedule 5 Sewage System Details

Type of System Club 4 51	rallow Bured	Trench Brd (Schedule
Septic/Holding Tank Size:	Litres	Make:	
Septic Tank Effluent Filter Make:		Model:	
Treatment Unit - Make & Model	Jorneso Hydi		
Number of Units:	i	Other:	
Refer to Typical Drawing # Pc - 5	5-1176	Pump(s) required	
Mantle Information:		Pump Rate	
Native or imported =15m in	direction(s)	Note: Alarm required	
Slope subgrade	% slope	pumping systems	
	direction	u(s)	
Site to be Scarified (If clay)	YES IND	2	
Clay Seal Required (If bedrock			
□ Trench	, 120 (25)		
Distribution Pipe Length	m 6	Shallow Buried Trench	
Loading Area		Pipe Length 104.64	
Type of Chamber		Tipe Length 10 1. 6 1	m
Length of Chamber		Filter Media Bed	
□ BMEC Area Bed			
☐ Type A		Stone	m²
☐ Type B		Extended Base	
Stone	m²	Pipe	
Sand		Weight of Filter Media	
Pipe	_ m²	Loading Area	m²
* 1	L/m ²		
Tank/Treatment Unit/Pump Cha		Demand Obliv	
Effluent Filter & Riser ONLY	amber Kepiace	ment ONLY	
onstruction Notes:			
			-





n +
2

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

Name of Applicant/Agent: LRL

Date: May 7 7017 Time: 10 00

Applicant/Agent Signature: Such Fin Inspector: 10 00am Date: Time: Inspector Signature: EG (.....) Soil Description T EG (.....) Soil Description .5m .5m See Altribul Text P. E Log. Test pits not available for inspection. Engineer assumes all liability for soil 1.0 m 1.0 m 1.5m 1.51 2.0 m 2.0 m EG (.....) Soil Description T EG (.....) Soil Description T .5m .5m 1.0 m 1.0 m 1.5m 1.5m 2.0 m 2.0 m LEGEND BR = Bedrock HGWT = High ground water table EG = Existing grade T = percolation rate GWT = Ground water table M = metres

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

Exact Location_

EL	D	4		00	
LE	.D	11	j.	2022	

Do Not Com	BITIC	File	-].
Permit # 2	1-2	1 2	
Date_	.)	43	
	UTTAL	Ria	- 1

Schedule 7 Scale: 1Block = NTS IAWA Layout Section N oDug Well ●Drilled Well ▲ Neighbouring Homes ♦Benchmark --- Tile Drainage --- Property Line Elevations (metric only)
B.M. 100.17 m Min. of 5 elevations in proposed system B.M. Description East arm of hydrant located west of Southern entrance to site area (in X pattern) X3 X5 sylloydud

Page 8

OSSO version August 2019

X_{6 (toe)}

FEB 1 8 2022

Ottawa Septic Bureau des systèmes septiques d'Ottawa

Do Not (Permit #	Smplete
Revision	
Date	21-343
	OTTAWA

Schedule 8 Fixture unit count

Fixtures	3 April	rent+	Worsh Buld		unit cou	nt =	Fixture	Count
Bathroom	T	T	No ib	7	unit cou		Fixture	Coun
Bathroom group (toilet, sink and tub or shower) installed in the same room	3	+		X	6	=	18	
Ur. nals Wall mounted Washout type		+	2	X	1.5	=		3
Shower stall		+		X	1.5	=		
Wash basin (SINK) (11/2inch trap)		+	6	x	1.5	-		9
Watercloset (TOILET) tank operated		+	Ч	X	4	=		16
Bidet	7	+		X	1	=		
Kitchen								
Dishwasher .		+		X	1	=		
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap	3	+	2	X	1.5	=	4.5	3
Other Domestic washing machine	1	+		X	1.5		1.5	
Combination sink and laundry tray single or double (Installed on 1½ trap)		+		X	1.5	=		
					۸.	-	.24	31

Sump pumps and floor drains are not to be connected to the sewage system. Connection
of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The
above mentioned fixtures should be discharged separately to an approved Class 2 (leaching
pit) sewage system.

2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

Agent/Owner signature Date

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

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SESER TO:

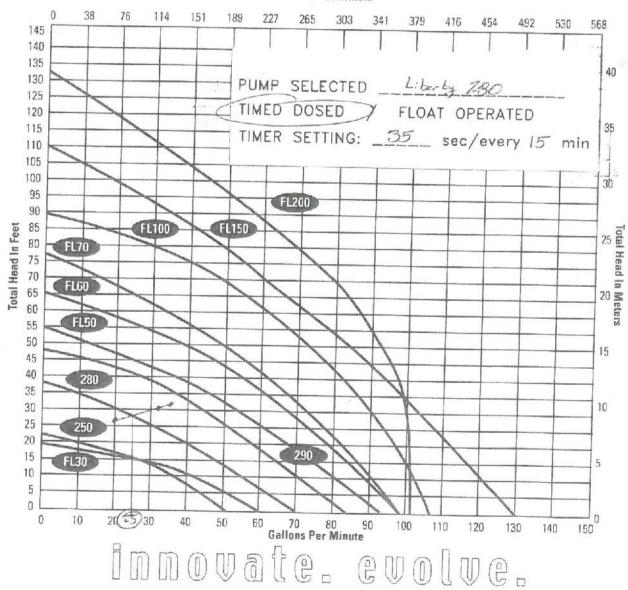
Liberty Pumps

SEPTIC FILES

Effluent Pumps

Performance Curve Data

Liters Per Minute



GREEN VALLEY ENVIRONMENTAL SERVICES

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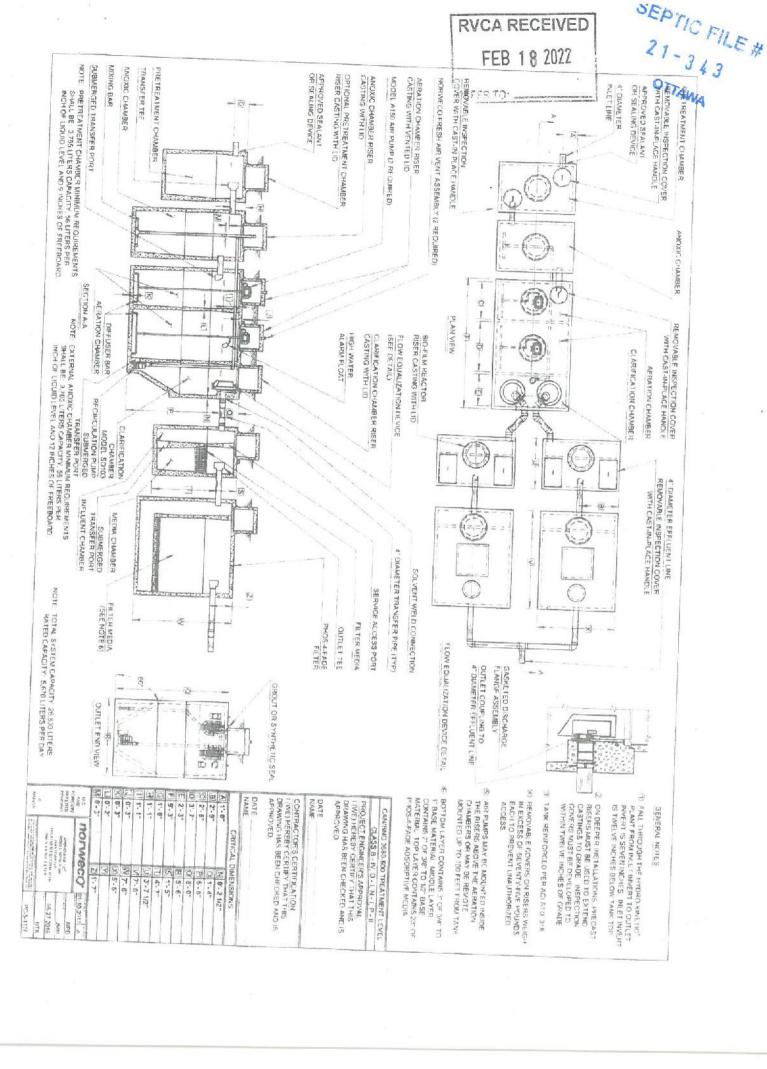
REFER TO:

SEPTIC FILE #

OTTAWA

26.16	2.00	0.60	42.60	42.00	0.78	84.00	0.12	20.00	0.77	32.40	64.79	245.26	53.95		16.40	1.50	6.55	1.50	85.83	1.50	5.06	0.67	2.45	10.00	20.00	13.12		51.30	64.79
26.16	2.00	09.0	42.60	42.00	0.78	84.00	0.12	9.00	0.52	21.73	43.46	164.52	36.19		16.40	1.50	6.55	1.50	85.83	1.50	2.42	0.32	1.17	10.00	9.00	13.12		36.03	43.46
26.16	2.00	09.0	42.60	42.00	0.78	84.00	0.12	8.00	0.49	20.49	40.98	155.12	34.12		16.40	1.50	6.55	1.50	85.83	1.50	2.17	0.29	1.05	10.00	8.00	13.12		34.63	40.98
26.16	2.00	09.0	42.60	42.00	0.78	84.00	0.12	7.00	0.46	19.17	38.33	145.10	31.92	(Imperial)	16.40	1.50	6.55	1.50	85.83	1.50	1.92	0.25	0.93	10.00	7.00	13.12		33.22	38.33
-	2.00	09.0	42.60	42.00	0.78	84.00	0.12	00.9	0.42	17.74	35.49	134.33	29.55	1)	16.40	1.50	6.55	1.50	85.83	1.50	1.66	0.22	0.80	10.00	00.9	13.12		31.81	35.49
26.16	2.00	09.0	42.60	42.00	0.78	84.00	0.12	5.00	0.39	16.20	32.40	122.63	26.98		16.40	1.50	6.55	1.50	85.83	1.50	1.40	0.19	0.68	10.00	5.00	13.12		30.39	32.40
26.16	2.00	09.0	42.60	42.00	0.78	84.00	0.12	2.00	0.24	10.24	20.49	77.56	17.06		16.40	1.50	6.55	1.50	85.83	1.50	09.0	0.08	0.29	10.00	2.00	13.12		26.10	20.49
	_	_				_			a x min)	eral)			_	(metric)	2.00	3.81	2.00	3.81	26.16	3.81	0.18	0.02	0.09	3.05	0.61	4.00		7.95	
Length of a Lateral (m):	Number of Laterals:	Input spacing of orifices(m):	Number of orifices(calculated):	chosen number of orifices:	space of orifice to edge (m)	total number of orifices:	diameter of orifice(inch):	Squirt height (feet):		Flow in a lateral (US gal/min x lateral	Total discharge (US gal/min)	Total discharge (L/min)	l otal discharge (Imp. gal/min)	lotal Dynamic Head (ft)	Length of force main(m)	Diameter of force main (in/cm)	Length of manifold (m)	Diameter of manifold (in/cm)	Length of lateral (m)	Ulameter of lateral (in)	Friction loss in forcemain (m/ft)	Friction loss in manifold (m/ft)	Friction loss in lateral (m/ft)	Fittings' loss (estimated) (m/ft)	Residual head on orifice (ft)	Elevation difference(assumed,	from low water level in pump tank to manifold) (m)	TDH (estimated) (m/ft)	Q (gpm)
input	indu	indu	1	indui	output	ontput									indu	Input	indu.	input	indui.	indui	output	output	ontbut	estimated	input	input		output	

6107 First Line Road, Manotick, Ontario, K4M 1A7 Box 882, Tel. (613) 692-2616, Fax: (613) 693-1802



APPENDIX A
Test Pit Logs

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TTR 10:



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Test Pit Log APIC FILE ON 21-343 Excavation Contractor: Maurice Yelle Excavation Itd

SUBSURFACE PROFILE SAMPLE DATA Water Content E Sample Number (%) 50 25 75 Water Level Elev./Depth (Standpipe or Open Excavation) Soil Description Lithology Depth Shear Strength Liquid Limit (kPa) 150 (%) 50 oft mo Ground Surface 98.21 4 0.4 m bgs (08/05/17) TOPSOIL Sandy, dark brown, dry. FILL Sandy clay, dark brown, dry. Silty Sand Trace clay, with clay seam from 1.7 to 1.8 m bgs, brown, dry. 11 11 11.... Sieve analysis completed. 11 11 11-11 11-11 11 11 11 11 5 11 11 11-11 11 11 11-11 6 11-11 11-11 11 11 11 11 95.11 End of Test Pit Refusal over inferred bedrock. 8 Easting: N/M Northing: N/M NOTES Site Datum: Top east arm of hydrant at south entrance (100.00 m) **BGS- Below Ground Surface** Groundsurface Elevation: 98.21 Top of Riser Elev.: 99.15 Excavation Width: 1.2 m Excavation Length: 1.5 m

RVCA RECEIVED FEB 18 2022



Excavation Width: 1.2 m

Project No.: 170132

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Test Pit Log. SEPTIC FILE #

Date: May 08, 2017

Field Personnel: JA

OTTAWA

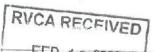
Excavation Method: Backhoe

Client: Hindu Temple of Ottawa Carleton

Excavation Contractor: Maurice Yelle Excavation Itd.

3	UBSURFACE PROFILE	SA	MPLE	DATA			
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
ft m	Ground Surface	97.09				<u> </u>	
	FILL Silty sand with some clay, brown, saturated with water infiltration at 0.4 m bgs. Buried metal structure/waste at approximately 0.9 m bgs.	0.00					
	End of Test Pit	96.19 0.90	3.7.	4			
2							
Easting:	- N/M		No.		NOTES		
Site Date	um: Top east arm of hydrant at south en				nt	inated at 0.9 meters due to vol Ground Surface	ume of water in

Excavation Length: 1.5 m



FEB 18 2022

Test Rit Log: TP3



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

REFER TO: Project: Terrain Analysis
Ottawa Carleton . Location: 4835 Bank Street, Ottawa, ON 21 - 3 4 3

Date: May 08, 2017

Field Personnel: JA

OTTAWA

Excavation Method: Backhoe

Excavation Contractor: Maurice Yelle Excavation Itd.

	SUBSURFACE PROFILE	SA	MPLE	ΔΤΔ			
						100000	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
o ft mo	Ground Surface	97.75 0.00					
	Sandy loam, dark brown, dry. Brick debris found in top 0.2 m bgs. FILL Sandy silt, trace boulders, brown, dry.	97.55 9.20	Political Comments				5/17)
·	Tire debris found at approximately 0.8 m bgs.			5			4 0.71 m bgs (08/05/17)
1	TILL Silty sand, trace gravel, cobbles and boulders, brown, dry. Sieve analysis completed.	96 95 0.80					
- 2	End of Test Pit Refusal at 1.7 m bgs over inferred bedrock.	96.05 1.70	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6			
Site Da	turn: Top east arm of hydrant at south en	trance (10	5017670 00.00 m) ser Elev.: 9	98.98	NOTES: BGS- Below	Ground Surface	

FEB 18 2022

Test Pit LSE PPAIC FILE #



Project No.: 170132 Client: Hindu Temple of Ottews Carreton Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

21-343

Date: May 08, 2017

Field Personnel: JA

OTTAWA

Excavation Method: Backhoe Excavation Contractor: Maurice Yelle Excavation ltd.

S	UBSURFACE PROFILE	SA	MPLE	ATA			
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
ft m _D	Ground Surface	99.54					
	TOPSOIL Silty loam, trace clay,dark brown, dry.		સુરામાં કૃતિકાનું સુરામાં કૃતિકાનું સુરા				
-	FILL Silty sand, trace cobbles and gravel, light brown, dry.	99.04 0.50					
	Changing to dark brown sandy fill with trace boulders at approximately			7			
1	0.8 m bgs.						
-				8			
- 1		98.14					
	End of Test Pit Refusal at 1.4 m bgs over inferred bedrock or large concrete structure	1.40			3		
2	ă.						
Easting	: 0454005	Northing:	5017628		NOTES:		

BGS- Below Ground Surface

Site Datum: Top east arm of hydrant at south entrance (100.00 m) Groundsurface Elevation: 99.54

Top of Riser Elev .: --

Excavation Width: N/M

Excavation Length: N/M

Page: 1 of 1

FEB 18 2022



Project No.: 170132

REFERTO:

Project: Terrain Analysis

Client: Hindu Temple of Ottawa Carleton

Location: 4835 Bank Street, Ottawa, ON

Test Pit Logi FP5 TIC FILE #

Date: May 08, 2017

Field Personnel: JA

Excavation Contractor: Maurice Yelle Excavation Itd

Excavation Method: Backhoe SUBSURFACE PROFILE SAMPLE DATA Water Content (%) 50 Elev./Depth (m) Sample Number 25 Water Level (Standpipe or Open Excavation) Soil Description Lithology Shear Strength Liquid Limit Depth (kPa) 150 (%) 50 o ft m Ground Surface 98.78 TOPSOIL Silty loam some sand, dark brown, 10 FILL Sand, some silt, trace cobbles, brown, dry. Waste debris of metal and asphalt pieces at approximately 0.9 m bgs. ◆ Dry at 1.53 m bgs 5 End of Test Pit Refusal at 1.5 m bgs over inferred bedrock 6

Easting: 0453945

Northing: 5017595

NOTES:

BGS- Below Ground Surface

Site Datum: Top east arm of hydrant at south entrance (100.00 m)

Groundsurface Elevation: 98.78

Top of Riser Elev.: 99.02

Excavation Width: N/M

Excavation Length: N/M

Page: 1 of 1

FEB 18 2022

SEPTIC FILE #

Test Pit Log: TP6

OTTAWA



Project No.: 170182

REFFE TO.

Client: Hindu Temple of Citawa Carleton

Date: May 08, 2017

Project: Terrain Analysis Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

Excavation Method: Backhoe

Excavation Contractor: Maurice Yelle Excavation Itd.

S	UBSURFACE PROFILE	SA	MPLE	ATA		Water Content	
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (RPa) 50 150	(%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
ft m	Ground Surface	99.38 0.00					-
	TOPSOIL Sandy loam, dark brown, dry						
	FILL Sand, some gravel, cobbles, boulders, silty seam at 0.7 m bgs, brown, dry. Refusal at 0.8 m bgs over inferred bedrock.	99.23 0.15					
1				12			
		98.58 0.80		13			
1							
2							
Site Da	tum: Top east arm of hydrant at south e	Northing: entrance (1	00.00 m)		NOTES: BGS-	Below Ground Surface	•

PECEIVED FEB 18 2022

SEPTIC FILE #



Project No.: 170132

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Date: May 08, 2017

Field Personnel: JA

Excavation Method: Backhoe

Client: Hindu Temple of Ottawa Carleton

Excavation Contractor: Maurice Yelle Excavation Itd.

S	UBSURFACE PROFILE	SA	MPLE D	ATA			
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear Strength (kPa) 50 150	Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Excavation
ft m	Ground Surface	99.60					
_	TOPSOIL Sandy loam, dark brown, dry.	99.40					
	FILL Sand, brown, trace metal debris, dry.	0.20					
	TILL	98.90 0.70					
- 1	Silty sand, trace clay, boulders, grey, organics including tree stump, roots, blackefusal due to obstruction (tree bg stump).						1.33 m bgs (08/05/17)
							MULTINIAN TO THE PROPERTY OF 1.33 m by
	F-d-4 T 4 O h	97.80 1.80					
	End of Test Pit					9	
- 2							
astino	p: 0454051 N	orthing	5017564		NOTES:		

BGS- Below Ground Surface

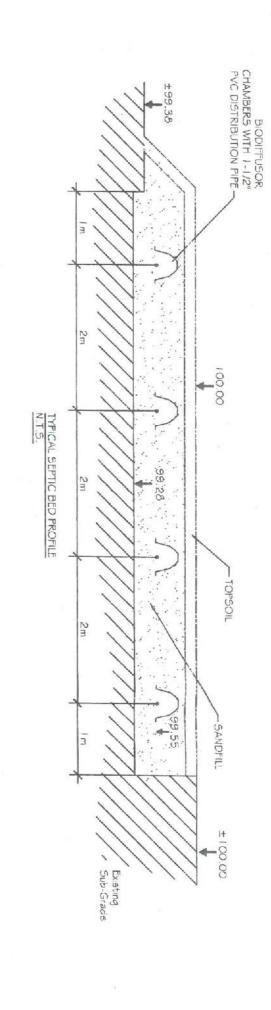
Site Datum: Top east arm of hydrant at south entrance (100.00 m)

Top of Riser Elev.: 100.79

Excavation Width: N/M

Groundsurface Elevation: 99.60

Excavation Length: N/M



PRETREATMENT TANK

RISERS AND LIDS SHALL BE INSTALLED FOR EASE OF A MAXIMUM OF 300mm OF SOIL SHALL COVER THE PRETREATMENT TANK. INSTALL MIN. 3785L PRETREATMENT TANK

NORWECO TREATMENT UNIT

- THE TREATMENT UNIT SHALL CONSIST OF A NORWECO HYDRO-KENETIC 5670L-3M TREATMENT UNIT. THE TREATMENT UNIT SHALL BE INSTALLED IN SERIES AND THE OWNER OF THE TREATMENT UNIT MUST ENTER INTO A NSTALLER THE MANUFACTURER'S SPECIFICATIONS BY A CERTIFIED THE TREATMENT UNIT SHALL BE INSTALLED ACCORDING TO TREATMENT EFFLUENT QUALITY IN ACCORDANCE WITH CF THE TREATMENT UNIT SHALL PRODUCE A TERTIARY DOWN STREAM FROM THE PRETREATMENT TANK TABLE 8.6.2.2. OF THE ONTARIO BUILDING CODE.
- MAINTENANCE AGREEMENT WITH THE MANUFACTURERS THE TREATMENT UNIT SHALL BE BACKFILLED AND REPRESENTATIVE
- THE TOP OF THE TREATMENT UNIT SHALL BE ACCESSIBLE TO THE SURFACE, INSTALL RISERS AND LIDS TO SUIT. COMPACTED, IN LIFTS, WITH SELECT GRANULAR FILL, SUCH AS SAND OR CLEAR STONE

NORWECO FILTER VAULT(S)

FILTER VAULT(5) SHALL BE INSTALLED IN SERIES AND DOWN STREAM FROM THE TREATMENT UNIT FILTER VAULT(5) SHALL BE ACCESSIBLE TO THE SURFACE. INSTALL RISERS AND LIDS TO SUIT. FILTER VAULT(5) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

SHALLOW BURIED TRENCH BED

- THE PRESSURIZED DISTRIBUTION SYSTEM SHALL HAVE A PRESSURE HEAD OF NOT LESS THAN GOOMM THE DISPERSAL BED SHALL CONSIST OF A TOTAL LENGTH EQUAL TO Q/50 = 4825/50 = 96.5 TOTAL LENGTH USED = 104.64m FROM THE PUMP WHEN MEASURED AT THE MOST DISTANT POINT REMOVE LAYER OF TOP SOIL TO APPROXIMATE FOOT PRINT OF SEPTIC BED AND SIDE SLOPES SAND FILL SHALL EXTEND I .Om ON ALL SIDES.
- AT NO POINT DURING OR AFTER CONSTRUCTION ALL SIDE SLOPES SHALL BE AT 1:3 DEPRE DISPERSAL BED SHALL BE BACKFILLED SO AS TO ENSURE THAT THE SURFACE WILL NOT FORM ANY
- EACH RUN SHALL CONSIST OF ONLY FULL BED AREA SHALL A WHEELED VEHICLE DRIVE OVER THE SEPTIC
- SEPTIC DESIGN BASED ON ADS BIO3 CHAMBERS. EACH RUN SHALL CONSIST OF 12 FULL ADS BIO3 CHAMBERS WITH A TOTAL OF 48 FULL BIO3 CHAMBERS FOR THE ENTIRE SEPTIC BED. CHAMBERS

MINIMUM CLEARANCE DISTANCE FROM LEACHING BED

- 4.3m FROM ANY PROPERTY LINE 6.3m FROM ANY STRUCTURE
- 16.3m FROM ANY DRILLED WELL

MINIMUM CLEARANCE DISTANCE FROM TANKS

- 3.0m FROM ANY PROPERTY LINE
- 1.5m FROM ANY STRUCTURE 15.0m FROM ANY DRILLED WELL

GENERAL

- THE BACKWASH WATERS FROM ANY HOUSEHOLD TREATMENT SUCH AS WATER SOFTENER SHALL NOT DISCHARGE INTO THE SEWAGE SYSTEM CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART & OF THE ONTARIO BUILDING CODE. CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO
- IT IS RECOMMENDED THAT ALL TREES WITHIN 5m OF THE BED AREA BE REMOVED TO PREVENT ROOTS FROM INFLITRATING THE SYSTEM.
 THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL DETERMINE SUITABLE METHODS OF CONSTRUCTION.
 INSPECTION BY THE REGULATING AUTHORITIES IS A REQUIREMENT BY
 SOME REGULATING AUTHORITIES AND IS STRONGLY RECOMMENDED BY GREEN VALLEY ENVIRONMENTAL INC
- SHOULD THE CONTRACTOR AT ANY TIME DURING CONSTRUCTION ENCOUNTER CONDITIONS THAT DIFFER FROM THE DESIGN CRITERIA IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGNER AND THE PROPERTY OF THE CONTRACTOR TO NOTIFY THE DESIGNER AND THE PROPERTY OF THE PROPERTY O THE REGULATING AUTHORITY EXISTING UNDERGROUND SERVICES
- GREEN VALLEY ENVIRONMENTAL INC. HAS PROVIDED DESIGNS BASED ON OUR INTERPRETATION OF THE ONTARIO BUILDING CODE AND THE TEST HOLES DUG ON THE PROPERTY.

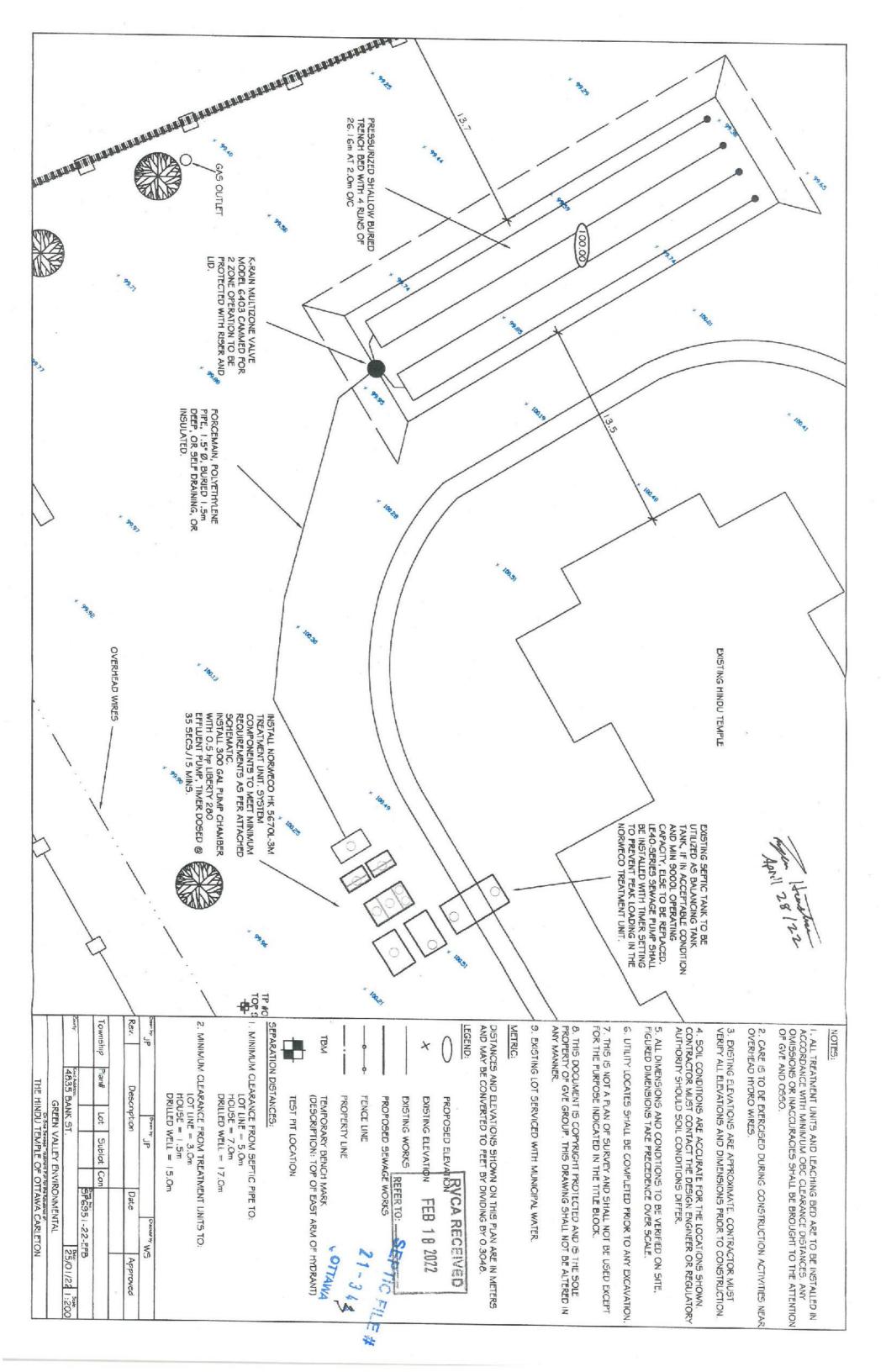
N THIS CROSS SECTION IS NOT TO SCALE, ALL FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE PROPERTY OF GREEN VALLEY ENVIRONMENTAL INC. THIS THIS DOCUMENT IS COPYRIGHT PROTECTED AND IS THE SOLE

DRAWING SHALL NOT BE ALTERED IN ANY WANNER.



RVCA RECEIVED

GREEN VALLEY ENVIRONMENTAL	4835 BANK ST		Township Plan# Lot Sublot Con	Rev. Description	م ا
ZEN VALLEY ENVIRONMENTAL		156951-22	Con	Date	
	07/06/2 NTS	2		Approved	S.M. se moon





Permit Part 8 – Sewage System Ontario Building Code

Permit	Complete No.	21-343	}
Revisio		1	
Date	April:	28, 202	2

nspected & Recommended by:	Ryan Hiems	tra	_ Owner: Har	ish Gupta	
nspection Date & Time:	April 28, 2022	2	Weather:		
ATTIO ALLIGIOOD.	Street (Existing B	uilding)			
Osgoode:	"wow.k	uilding) mberland: [ESIDENTIA mercial		~.	icester: 🔀
number of bedrooms:	Pindus	mercial	AL ** Inits:		
inished floor area:	Institu		4825	<u> </u>	L/da
	785 Minimum	L	ı bills for	□ yes	no
ffluent filterYE			grain size analysis required	□ yes	no no
ump rate Timer D		L/15 min	site to be scarified	yes	□ no
reatment unit Norweco Hydro-F			clay seal inspection	☐ yes	no
number of units	1		mantle required	□ yes	no no
			sub-grade inspection	yes	□ no
☐ Trench ☐ Pipe and Stone or ☐ Cham type of chamber loading area			□ Shallow Buried Trench pipe length orifice spacing		m
O Pipe and Stone or O Cham type of chamber	В	m² m	pipe length orifice spacing Filter Media Bed stone extended base pipe weight of filter media	0.6	m m² m² kg
O Pipe and Stone or O Cham type of chamber loading area total trench length trench configuration Dispersal Bed BMEC O Type A Type	В	m² m m	pipe length orifice spacing Filter Media Bed stone extended base pipe weight of filter media loading area	0.6	m m² m² kg
O Pipe and Stone or Cham type of chamber loading area total trench length trench configuration Dispersal Bed BMEC Type A Type stone	В	m² m² m² m² m²	pipe length orifice spacing Filter Media Bed stone extended base pipe weight of filter media loading area Class 5 Holding Tank Septic Tank Only	0.6	m m² kg m²
type of chamber loading area total trench length trench configuration Dispersal Bed BMEC O Type A O Type stone sand pipe	В	m² m² m² m² m²	pipe length orifice spacing Filter Media Bed stone extended base pipe weight of filter media loading area Class 5 Holding Tank Septic Tank Only	0.6	m m² kg m²
type of chamber	part 10/11 apprer food service wit	m² m² m² m² m² m² m² m² oval B-22-0	pipe length	90.6 Yay 2, 6	m²kgm²
type of chamber	B B D D D D D D D D D D D D D D D D D D	m² m² m² m² m² kg oval B-22-0 hin the wor	pipe length	90.6 Yay 2, 6	m²kgm²

**EMAIL ONLY ** STREET/CIVIC INITIAL

> Bureau des systèmes septiques d'Ottawa Ottawa Septic System Office

3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5

Phone: 613-692-3571 PRESS "4" for septic office 1-800-287-3504

Township:OSG-HUN-GLO-FIT-CUM-NEP-GOU-RID-KAN-TOR Email: septic@rvca.ca Fax: 613-692-1507 (HALL) Bank 35 t t SITE ADDRESS:

CONTACT: 1

INFORMATION FOR OWNER/APPLICANT

Attached is your Sewage System Permit. A minimum of two inspections are required before your proposed system can be approved for use (additional inspections may be required for clay soils/bedrock and/or relinspections). Inspections must be requested in writing. Please see attached:

- Inspection fax request form (all inspections MUST be requested in writing) As-built components and drawing form
- Copy of the approved application and schedule pages
 Approved Part 8 permit: *Electronic copy only Be sure to INCLUDE in Building Application Package for Plans Examiner at CITY of OTTAWA client services, if NEW or RENO construction project.

Special Note

- A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, it may be renewed only once for a period of 12 months from the date of expiry.

No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without notifying, filing details with and obtaining the authorization of the Chief Building Official. (Building Code Act 1992, c.23, s.8(12))

Sewage System Permit Construction Regulrements

Clay Soils/Bedrock only (if required per issued Approval)
 In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared.
 Scarification must be done under dry conditions prior to importing leaching bed fill.

2. Installation inspection – 2nd inspection
When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted:

a) "as-built components" and "as-built drawings" — see attached form
b) "engineer letter" — if the system is engineered
c) grain size analysis and weight bills for all Filter Media types of septic systems
d) Weigh bills for washed septic stone, where applicable
e) Maintenance/service contract for treatment unit installed

3. Final Grading Inspection — 3rd inspection
When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be complete:
a) The leaching bed and septic tank must be covered with sand fill and topsoil and graded

b) All conditions of the Sewage System Permit & comments on the installation inspection report must be met
 c) The depth of cover & material type must be identified by inspection pipes or holes placed over trenches at 4 corners of bed
 d) The 4 corners of the bed must be staked

JULY 2020

Location: 2:Administration templates\CoverPartBoage



Green Valley Ettivisonmental Inc.

OF AUTHORIZATION TANK

Owner:	Harish Gupta	The Hinds Temple of Ollans	
Address:	4835 BANK St		1

K12 166

Di nami	
Cell No.: (213	Fax No.:
Phone No.: (6/3) 737-5939	Work No.:

LOCATION OF PROPERTY:

Lot No.: 22	Concession No.: 5RF	Sub lot/Part No.:	R. Plan No.: 5R 31.56	Civic Address: 4835 B.	Municipality: Clovest a	Roll No.:	
	1		3156	4835 Bank St	wt C		

Commercial: (provide description of building and intended use) Building I, the above - mentioned authorize Green Valley Environmental Services to act as my agent to apply for and obtain a sewage system permit from the responsible Approval Agency.

Signature:

Page 1

OSSO version August 2019

Builder (optional) State RR 10. Gorporation or partnership (if applicable) First name Plant address First name Plant nam		FEB 18 2022	2022		21-341	4 4
n or partnership (if applicable) Unit number E-mail E-mail () Nes n activities. Pes a system. Cof the system. To of the policable by-law, Yes applicable by-law, Yes	E. Builder (optional)	סבבבס דיט.			OTTAL	11.0
Unit number Postal code	st name	First name	Corporation or partnershi	ip (if applicable)		3
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is application is accompanied by the plans and specifications prescribed by the applicable by-law, Yes No solution or regulation made under clause 7(1)(b) of the Building Code Act, 1992. Is application is accompanied by the information and documents prescribed by the applicable by-Yes No check building official to determine whether the proposed building, construction or demolition will not contravene any applicable law. The proposed building, construction or demolition will not contravene any applicable law. The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.	syment has been made of all fees that are gulation made under clause 7(1)(c) of the plication is made.	required, under the applica Building Code Act, 1992, to	able by-law, resolution or be paid when the		N _o	
supplication is accompanied by the information and documents prescribed by the applicable by- v. resolution or regulation made under clause 7(1)(b) of the Building Code Act, 1992 which enable strict building official to determine whether the proposed building, construction or demolition will ntravene any applicable law. The proposed building, construction or demolition will not contravene any applicable law. The information of applicant (print name) The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge. If the owner is a corporation or partnership. I have the authority to bind the corporation or partnership.	is application is accompanied by the plans solution or regulation made under clause?	s and specifications prescrit (1)(b) of the Building Code	bed by the applicable by-lav		o _N	
The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation or partnership. I have the authority to bind the corporation or partnership.	is application is accompanied by the inform, resolution or regulation made under clause third building official to determine wheth officials any applicable law.	nation and documents presuse 7(1)(b) of the Building Certhe proposed building, co	scribed by the applicable by Code Act, 1992 which enable onstruction or demolition will	d)	° Z	
The information of applicant (print name) The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.	e proposed building, construction or demo	lition will not contravene an	ny applicable law.	Yes	No	
	eclaration of applicant					
	a			oəp	are that:	
	(print name)					
7 3000		ation, attached schedules, knowledge. hip, I have the authority to t	attached plans and specific bind the corporation or partr	ations, and othe	r attached	1
11:11	Date E. 7 Jan		1 Complete	/		

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Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the Building Code Act, 1992, and will be used in the administration and enforcement of the Building Code Act, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director. Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M55 2E5 (416) 585-5656.

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- Statement
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21-344 Schedule 1: Designe Pinfer

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with respect to the project	are product	Lotton. 22/5	0,		ental	Lot/con.	Auramon Ca		ile 3.5.2.1. of	ructural House
es with respect to		Unit no.	otion 58315		Environme	Unit no.	E-mail	Cell number	Iding Code Tab	Building Structural Plumbing - House
Use one form for each individual who feviews and takes lessonsibility for design activities with respect to the project		4835 Bank 56	Postal code Plan number other description 5R 3156.	B. Individual who reviews and takes responsibility for design activities	Fim Green Valley Environmental		Postal code Province ON	Fax number (6/3) 692-1802	C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1, of Division C]	HVAC – House Building Services
Use one form for each individual who-	A. Project information		Municipality Closecter	B. Individual who reviews and to	Name Jacob Poner	street address 6107 Fix Line Rd.	Municipality North Gover	Telephone number (613) 612 - 2616	C. Design activities undertaken l Division CJ	House Small Buildings

Plumbing – All Buildings
On-site Sewage Systems b. 18. Detection, Lighting and Power Fire Protection nby ProPosed 448-12 System Permit D. Declaration of Designer Large Burlangs
Complex Buildings
Description of designer's work 28 Revision Design

declare that (choose one as appropriate);

(print name)

I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4 of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: 13.75

603

I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code.

Individual BCIN:

Basis for exemption from registration:

The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:

I certify that:

- The information contained in this schedule is true to the best of my knowledge.
 - have submitted this application with the knowledge and consent of the firm

1.01.7 Ebroung

Signature of Designer

NOTE

- For the purposes of this form, "Individual" means the "person" referred to in Clause 3.2.4.7(1) (c) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exemplifrom qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

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

Page 3

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RVCA

21-344

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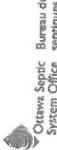
Schedule 2: Sewage System Installer Information OTTAWA

A. Project Information		
Building number, street name 4835 Bonk	K 56. Unit number	Lot/con. 22/5
Municipality Coccuster Postal code	Plan number/ other description 5 K 31 56	
B. Sewage system installer		
Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1. Division C?	usiness of constructing on-site, installing, repairing, seg Code Article 3.3.1.1. Division C?	ervicing, cleaning or
Yes (Continue to Section C)	No (Continue to Section E) Installer un application	Installer unknown at time of application (Continue to Section E)
C. Registered installer information (where answer to B is "Yes")	nswer to B is "Yes")	S. C.
Name Green Vallas Environmental	BCIN 11734	
25	Unit numb	Lot/con.
Postal o	7 Province ON E-mail	
(6/3) 692 - 26/6 (6/3) 692	12 - 1802 Cell number (613) 229 - 3900	900
 U. Quantified Supervisor information (where answer to section B is "Yes") 	nswer to section B is "Yes")	
Name of qualified supervisor(s)	Building Code Identification Number (BCIN)	
13.11 Subrock	1234	
E. Declaration of Applicant:		
Tacob Prine		declare that:
(print hame) I am the applicant for the permit to construct the sewage system. If the installer shall submit a new Schedule 2 prior to construction when the installer is known.	(print name). I print harme) am the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known:	of application, I
OR am the holder of the permit to construct the s is known.	l am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known.	, now that the installer
certify that:		
1. The information contained in this schedule is true to the best of my knowledge.	ue to the best of my knowledge.	
2. If the owner is a corporation or partnership, I ha	If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.	á
Date February 7 1222	Signature of applicant	
	_	

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

Page 4

OSSO version August 2019



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ermit #	evisi ô n ate	
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DoSADPComplete Permit # Revision # 3 4 4 Date OTTAWA	Iter supply] Proposed Existing	ype of Well Dug/bored/Sandpoint well Drilled well Municipal Other	6. Sewage Design Flow Other Occupancies Design Flow 4020 L/day Detailed sewage flow calculations: No Seal Preparation (Assembly build reg) 500 x 3 = 4000 L/day (500 people)	Fully raised Partially raised In-ground 4 - "Type A" Dispersal (schedule 13)	☐ Partially raised ☐ In-ground 4 - "Type B" Dispersal (Schedute 14) ☐ Fully raised ☐ Partially raised ☐ In-ground	Class 5 – Holding Tank (9000L min) Tank/TreatmentUnit/PumpChamber ONLY Effluent Filter/Risers ONLY
REFER TO: Schedule 4 Proposed Services Complete Sections 1 thru 7	2. Water supply Proposed Existing	4. Type of Well Dug/bored Drilled we	. 0 0 0 c	Ц	Class 4	Class Tank/T
Bureau des systèmes septiques d'Octava	per	Type of work proposed New Installation Replacement Alteration	vage Design Flo	Treatment Unit Norwell 4730-3 M Class 2 - Leaching Pit Class 3 - Cesspool Class 4 - Shallow Buried Trench		Partially raised In-ground
Octawa Septic System Office	1. Engineered Yes	3. Type of work New Insta	5. Residential Scv Bedrooms House (floor area) People Total Fixture Units Residential Flow	7. Type of System Treatment Uni Class 2 – Leac Class 3 – Cess Class 4 – Shall	Class 4 -	

Page 5



FEB 18 2022 REFER TO:

SEPTIC FILE# Do Not Complete
Permit # 21-344
Revision # OTTAWA OTTAWA

Schedule 5 Sewage System Details

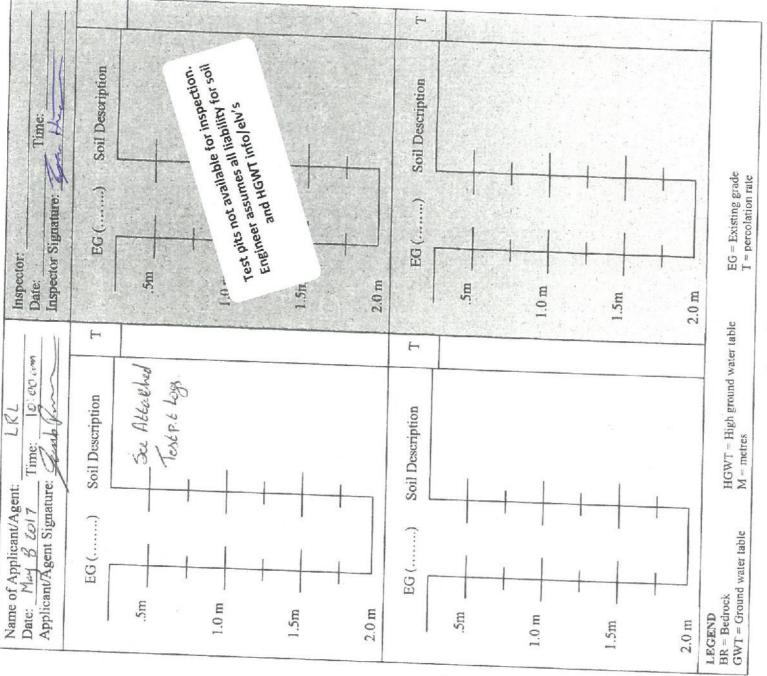
ng Tank Size: Effluent Filter Make: Number of Units: ical Drawing # [2:5.1] Scarified (If clay) Required (If bedrock) Area Chamber Area Chamber f Chamber	Type of System Cluss "1 Shallow	Burch	Tank Bed (Schedule 4)
imported = 15m in direction(s) Scariffed (If clay) Number of Units: Inter & Riser ONLY Model: Model: Model: Model: Pump Rate Pump Rate	Septic/Holding Tank Size:	Litres	Make:	
nit – Make & Model Network & Hydro – Kine & C 4730 – 3.M. Number of Units:	Septic Tank Effluent Filter Make:		Model:	
Number of Units: Other: Pump Rate		Prince Hyd		2
ical Drawing # RE .5 - 1174 Pump(s) required Pump(s) required Pump(s) required Pump(s) required for pumping systems Pump Rate Welge Note: Alarn required for pumping systems Note: Alarn required for pumping systems Note: Alarn required for Note: Alarn required fo				
mation: Imported = 15m in direction(s) Scariffed (If clay) Required (If bedrock) Area	R.5.	4211	Pump(s) required	
imported = 15m in direction(s) Scariffed (If clay) Required (If bedrock) Scariffed (If bedrock) Required (If bedrock) Scariffed (If bedrock) Scariffed (If bedrock) Required (If bedrock) Scariffed (If clay) Required (If bedrock) Scariffed (If clay) Required (If bedrock) Required (If bedrock) Scariffed (If clay) Required (If clay) Required (If clay) Required (If clay) Required (If clay) Regulatory Required (If clay) Regulatory			Pump Rate	
pumping systems direction(s) Scarified (If clay) Required (If bedrock) Regulared (If bedrock) Regulared (If bedrock) Regulared (If clay) Regulared (If clay) Regulared (If clay) Regulared (If clay) Required (If clay) Regulared (If clay) Reg	Native or imported =15m in	direction(s)	Note: Alarm required	for all
Scarified (If clay) Required (If bedrock) YES (NO Stanton The Bed Th	Slope subgrade	% slone	pumping systems	
Scarified (If clay) Required (If bedrock) YES (NO Required (direction(s		
Sequired (If bedrock) YES (NO	Site to be Scarified (If clay)	WES/NO		
ion Pipe Length m Shallow Buried Trench Area m² Pipe Length 13%.52 Chamber m Filter Media Bed Stone Extended Base pipe m³ Weight of Filter Media m² Weight of Filter Media m² Trenched Base pipe m² Tr	Clay Seal Required (If bedrock)	YES (NO		
Area m² Pipe Length 134.52 Chamber m Pipe Briter Media Bed Stone Extended Base Pipe m² Weight of Filter Media m² L/m² tment Unit/Pump Chamber Replacement ONLY Iter & Riser ONLY	U Trench			
Area m² Pipe Length 131.52 Chamber m Filter Media Bed f Chamber Stone Extended Base n m² Weight of Filter Media n m² Weight of Filter Media n ding L/m² Loading Area n tment Unit/Pump Chamber Replacement ONLY tter & Riser ONLY	Distribution Pipe Length			
Chamber m Chilter Media Bed Stone Stone Extended Base m² Weight of Filter Media m² Weight of Filter Media m² weight of Filter Media m² Loading Area rhent Unit/Pump Chamber Replacement ONLY tter & Riser ONLY	Loading Area	ш₂	Pipe Length 139.52	8
f Chamber m Chamber Replacement ONLY f Chamber Replacement ONLY f Chamber Replacement ONLY	Type of Chamber			
Extended Base Extended Base Pipe m² Weight of Filter Media m ding L/m² thent Unit/Pump Chamber Replacement ONLY	Length of Chamber		Filter Media Bed	
Extended Base m² Weight of Filter Media m² Loading Area thent Unit/Pump Chamber Replacement ONLY tter & Riser ONLY			Stone	2
Pipe m² Weight of Filter Media m² Loading Area m thent Unit/Pump Chamber Replacement ONLY Iter & Riser ONLY			Extended Base	= 24
m ² Weight of Filter Media m Loading Area thent Unit/Pump Chamber Replacement ONLY Iter & Riser ONLY			Pipe	= =
ding L/m² Loading Area thent Unit/Pump Chamber Replacement ONLY Iter & Riser ONLY		n ²	Weight of Filter Media	X
ding L/m² treent Unit/Pump Chamber Replacement ONLY Iter & Riser ONLY		m ²	Loading Area	1 7 E
Linear Loading Linear Loading Tank/Treatment Unit/Pump Chamber Replacement ONLY Effluent Filter & Riser ONLY Sonstruction Notes:		C		111
☐ Tank/Treatment Unit/Pump Chamber Replacement ONLY ☐ Effluent Filter & Riser ONLY Construction Notes:	Linear Loading L/A	m ²		
Construction Notes:		ıber Replacer	nent ONLY	
	Construction Notes:			
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	USSO Version August 2019	August 201

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Schedule 6 REFER TO: Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

SEPTIC FILE #
Do Not Complete
Permit # 21-3
Revision #
Date

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



OSSO version August 2019

Page 7

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Ottawa Septic Bureau des systèmes REFER TO: System Office septiques d'Ottawa

Scale: 1Block = NTS

Layout Section Schedule 7

Do Not Co**Situte** 71C FILE Revision # 21 3 4 4 OTTAWA

Min. of 5 elevations in proposed system area (in X pattern)

X₁

X₂

X₃

X₄

X₅

X₆

X₇

X₈

X₈

X₈

X₉

X₁

X₁

X₁

X₂

X₄ Property Line oDug Well «Drilled Well ▲ Neighbouring Homes ◊Benchmark ---Tile Drainage arm of hydrand 30 located west of Sathen entrance to Elevations (metric only) B.M. | 100, 17 m B.M.Description Ecyt Exact Location Z

Page 8

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Bureau des systuseptiques d'Otts Ottawa Septic System Office

FEB 18 2022

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Ottawa Septic System Office	Ottawa Sepuic Bureau des systèmes System Office septiques d'Ottawa	REFER TO:	And the contract of the contra	A THE PROPERTY OF THE PROPERTY		Do No Permi	t#C	Do Not Complete TIC FILE *	7
		Schedule 8	Jule	60		Date		41-344	ž.
		Fixture unit count	nit	count				OTTAMA	
Fixtures		# Existin	+	+ Proposed	×	unit count	И	# Existing + # Proposed X unit count = Fixture Count	
Bathroom			L						
Bathroom gro	Bathroom group (toilet, sink and tub	qn:					115-15-2		
or shower)	or shower) installed in the same room	ш00	+		×	9	11		
Vr. nal wa	Ur. nal wall Mondal washout Type	126	+	10	×	1.5	II	<u>v</u>	
Shower stall			+	7	×	1.5	II	10	
Wash basin (S	Wash basin (SINK) (1/2inch trap)		+	19	×	5.1	H	28.5	

38

4

×

M N

Watercloset (TOILET) tank operated

×

×

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

10

134.

11

1.5

×

+

Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap

Dishwasher

Kitchen

Bidet

11

1.5

×

+

Combination sink and laundry tray single or double (Installed on 11/2 trap)

Domestic washing machine

Other

Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.

Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)). d

Agent/Owner Signature

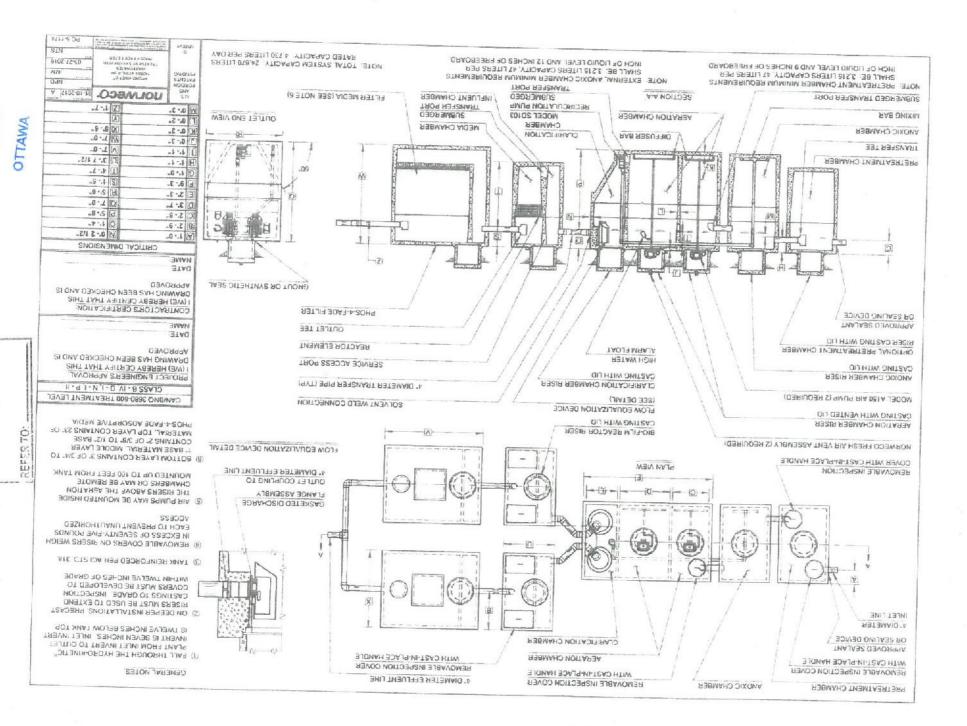
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Date

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GREEN VALLEY ENVIRONMENTAL SERVICES

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SEPTIC FILE #

38.08

50.02

20.70

35.42

19.61

34.08

0.12	121.0	121.0	121.0	21.0	21.0	21.0
40.00	00.04	00.04	00.04	40.00	00.04	00.04
48.0	48.0	48.0	48.0	48.0	48.0	48.0
20.00	20.00	20.00	20.00	20.00	20.00	20.00
20,80	08.02	20.80	20.80	08.02	20.80	08.02
09.0	09.0	09.0	09.0	09.0	09.0	09.0
2.00	2.00	2.00	2.00	2.00	2.00	2.00
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67.811	36.87	38.57	60.69	76.58	68.88	86.98
30.85	07.02	19.61	18.25	16.90	15.43	94.6
15.43	10.35	92.6	61.9	8.45	17.7	88.4
77.0	26.0	64.0	94.0	24.0	66.0	0.24
20.00	00.6	00.8	00.7	00.8	00.8	2.00
21.0	0.12	0.12	0.12	0.12	0.12	21.0

	Squirt height (feet):
	diameter of orifice(inch):
indino	total number of orifices:
output	space of orifice to edge (m)
input	chosen number of orifices:
4	Number of orifices(calculated):
input	Input spacing of orifices(m):
input	Number of Laterals:
indni	Length of a Lateral (m):

Glainfeter of offince(INCh):
Squirt height (feet):
Discharge of orffice (US gal/orifice x min)
Flow in a lateral (US gal/min x lateral)
Total discharge (US gal/min)
Total discharge (L/min)
Total discharge (Imp. gal/min)

Total Dynamic Head (ft)

13.12	13.12	13.12	13.12	13.12	13.12	13.12	00.4
20.00	00.6	00.8	00.7	00.9	00.8	2.00	19.0
00.01	10.00	00.01	00.01	10.00	00.01	10.00	3.05
15.0	31.0	£1.0	21.0	01.0	60.0	40.0	10.0
71.0	80.0	70.0	90.0	90.0	60.0	20.0	10.0
14.8	30.6	2.75	2.43	2.11	87.1	97.0	62.0
05.1	1.50	03.1	1.50	1.50	1.50	03.1	18.6
42.91	19.24	12.91	18.54	16.54	16.54	16.24	3.08
1.50	1.50	08.1	09.1	1.50	1.50	06.1	18.8
6.55	55.8	6.55	6.55	65.9	6.55	66.8	2.00
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82.02	20.28	20.28	20.28	20.28	20.28	20.28	00.8
			mperial)	1)			Lic)

18.25

32.73

06.91

31.39

	to manifold) (m)	
	from low water level in pump tank	
	Elevation difference(assumed,	inqui
	Residual head on orifice (ft)	Indui
	Fittings' loss (estimated) (m/ft)	estimated
	Friction loss in lateral (m/ft)	indino
	Friction loss in manifold (m/ft)	indino
	Friction loss in forcemain (m/ft)	Indino
	Diameter of lateral (in)	Indui
	Length of lateral (m)	andu
	Diameter of manifold (in/cm)	Indui
	Length of manifold (m)	indui
	Diameter of force main (in/cm)	indni
	Length of force main(m)	Juqui
w)		

TDH (estimated) (m/ft)

Q (gpm)

indino

6107 First Line Road, Manotick, Ontario, K4M 1A7 Box 882, Tel. (613) 692-2616, Fax: (613) 693-1802

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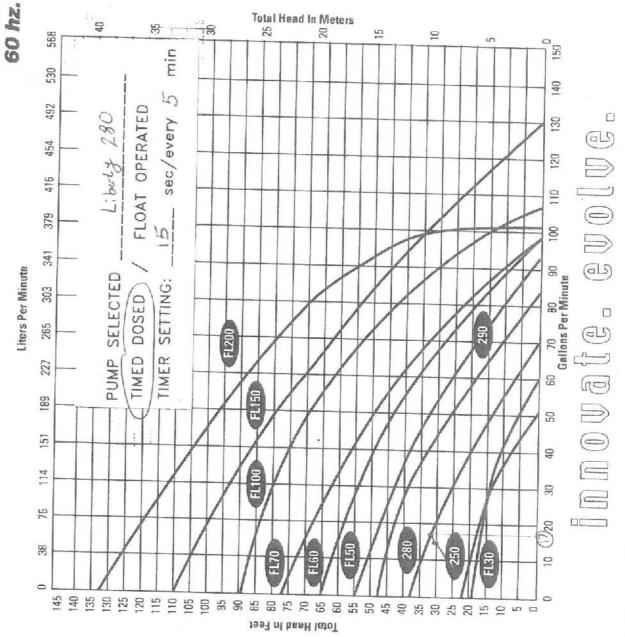
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SEPTIC FILE # 21-344 OTTAWA

Filliant Pumps

Performance Curve Data



Liberty Pumps • 7000 Apple Tree Avanus • Bergen, NY 14416 Phone 800-543-2550 Fax (585) 494-1839 www.libertypumps.com

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APPENDIX A
Test Pit Logs

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SEPTIC FILE

21-344

Test Pit Log: TPTTAWA

REFER TO

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Client: Hindu Temple of Ottawa Carleton

Project No.: 170132

Excavation Method: Backhoe

0

Date: May 08, 2017

Excavation Contractor: Maurice Yelle Excavation Itd. Field Personnel: JA

Water Level (Standpipe or Open Excavation) (T1/20/80) sgd m 4.0 > Water Content (%) 25 50 75 BGS- Below Ground Surface Liquid Limit (%) 25 50 75 Shear Strength (kPa) 50 150 NOTES Sample Mumber SAMPLE DATA 3 Site Datum: Top east arm of hydrant at south entrance (100.00 m) Γιεμοιοάλ Northing: N/M 98.01 0.90 Elev./Depth (m) 0.00 2.10 Silty Sand Trace clay, with clay seam from 1.7 to 1.8 m bgs, brown, dry. Refusal over inferred bedrock. SUBSURFACE PROFILE Ground Surface TOPSOIL Sandy, dark brown, dry. FILL Sandy clay, dark brown, dry. Soil Description End of Test Pit Sieve analysis completed. Easting: N/M Depth # 0

Page: 1 of 1

Excavation Length: 1.5 m

Top of Riser Elev.: 99.15

Groundsurface Elevation: 98.21

Excavation Width: 1.2 m

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PEFER TO:

21-344

SEPTIC FILE #

OTTAWest Pit Log: TP2 Location: 4835 Bank Street, Ottawa. ON Project: Terrain Analysis

of Ottawa Carletor

Client: Hindu Temple Project No.: 170132

Date: May 08, 2017

Excavation Method: Backhoe

Field Personnel: JA

Water Level (Standpipe or Open Excavation) Excavation Contractor: Maurice Yelle Excavation Itd NOTES:
Test plt terminated at 0.9 meters due to volume of pit.
BGS- Below Ground Surface Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75 Shear Strength (kPa) 50 150 SAMPLE DATA Sample Number Top of Riser Elev .: --entrance (100.00 m) Гігројоду Northing: N/M 96.19 Elev./Depth (m) Ground Surface
FILL
Slity sand with some clay, brown,
saturated with water infiltration at 0.4
m bgs. Site Datum: Top east arm of hydrant at south Buried metal structure/waste at approximately 0.9 m bgs. SUBSURFACE PROFILE Soll Description Groundsurface Elevation: 97.09 ε # 0 Depth

Page: 1 of 1

Excavation Length: 1.5 m

Excavation Width: 1.2 m

SEPTIC FILE #

21-344

Test Pit LOBIAWA

FEB 18 2022

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REFER TO: Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Excavation Method: Backhoe

Date: May 08, 2017

Project: Terrain Analysis Location: 4835 Bank Street, Ottawa, ON

Excavation Contractor: Maurice Yelle Excavation Itd.

Field Personnel: JA

	Water Level (Standpipe or Open Excavation)	(Z L/GO/80) s6q w			
	Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75				OTES: BGS- Below Ground Surface
	Shear Strength (kPa) 50 150				NOTES. BGS. Below
SAMPLE DATA	Lithology	φ <i>(h(t)(i(t)</i> ,,,,,,,, .	**************************************	C	Narthing: 5017670 entrance (100.00 m) Top of Riser Elev.: 98.98
SAM	Elev./Depth (m)	97.75 0.00 97.55 0.20	96.95 0.880 0.95	1.70	Narthing: 5017670 intrance (100.00 m) Top of Riser Elev.:
SUBSURFACE PROFILE	Soil Description	Graund Surface TOPSOIL Sancy loam, dark brown, dry. Brick debris found in top 0.2 m bgs. FILL Sandy silt, trace boulders, brown, dry. Tire debris found at approximately 0.8 m bgs.	Til.L. Siity sand, trace gravel, cobbles and boulders, brown, dry. Sieve analysis completed.	End of Test Pit Refusal at 1.7 m bgs over inferred bedrock.	Easting: 0454091 Site Datum: Top east arm of hydrant at south entrance (100.00 m) Groundsurface Elevation: 97.75 Top of Riser Elev.
20	Depth	E	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Easting Site Dat

Page: 1 of 1

Excavation Length: 1.5 m

Excavation Width: 1.2 m

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Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON Field Personnel: JA

Test Pit Log: \$\$4

27.344 Excevation Contractor: Maurice Yelle Excavation 1977

S	SUBSURFACE PROFILE	SA	SAMPLE DATA	DATA			MA
Depth	Soil Description	Elev./Depth (m)	Гіфоіову	Sample Number	Shear Strength (KPa) 50 150	Water Content (%) 25 50 75 Liquid Limit 25 50 75	Water Level (Standpipe or Open Excavation)
B B O	Ground Surface TOPSOIL Silty loam frace clay, dark brown, dry	99.54	ાધાધાધાધાધાધા (ધાધાધાધાધાધા				
	FILL Sity sand, trace cobbles and gravel, light brown, dry. Changing to dark brown sandy fill with trace boulders at approximately 0.8 m bgs.	99.04 0.50	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
-	End of Test Pit Refusal at 1.4 m bgs over inferred bedrock or large concrete structure.	98.14	0	Ф.			8
N							
sting:	Easting: 0454005	Northing: 5017628	5017628		NOTES:		
e Datu	Site Datum: Top east arm of hydrant at south entrance (100.00 m)	entrance (10	00.00 m)		BGS	BGS- Below Ground Surface	
spunc	Groundsurface Elevation: 99.54	Top of Riser Elev.:	er Elev.	1.			
cavali	Excavation Width: N/M	Excavation Length: N/M	n Length	N.W.	-		

Page: 1 of 1

Shear Strength (RPa) 50 (150 Personnet: JA Excavation Contractor: Maurice Yelle Excan (RPa) 50 (150 25 50 75 150 25 50 75 150 25 50 75 150 25 50 75 150 850 850 850 850 850 850 850 850 850 8	~	FEB 18 2022 REFER TO:
Shear Strength (KPa) 25 150 25 Notes: NOTES: BGS. Below Ground	100	Client: Hindu Temple of Ottawa Carleton Date: May 08, 2017
Shear Strength (%) 25 50 75 (%) 50 (%) 25 (%) 75 (%) 150 25 (%) 75 80 (%) 8658. Below Ground Surface		Excavation Method: Backhoe
Shear Strength Liquid Limit Open Exc (%) 75 (Stands of 150 25 50 75 (Stands of 150 25 50 75 150 Open Exc (%) 75 Stands of 150	à	SAMPLE DATA
NOTES: BGS. Below Ground Surface		Elev./Depth (m)
NOTES: BGS. Below Ground Surface		88.78 17.77.77 17.77.77 18.63
NOTE		1
	1	Northing: 5017595
	o	Site Datum: Top east arm of hydrant at south entrance (160.00 m) Groundsurface Elevation: 98.78 Top of Riser Elev.: 99.02

Page: 1 of 1

RVCA PECETVED FEB 1 8 2022

Project: Terrain Analysis Project No.: 17013 REFER TO: Client: Hindu Temple of Ottawa Carleton

cation: 4835 Bank Street. Ottawa, ON

21.34

Test Pit Log: TP&DTC FILE

SUBSURFACE PROFILE	SAMPLE	MPIE	SAMPI F DATA			7
	5		2		Water Content	
Soil Description	Elev./Depth (m)	Гієроюду	Sample Number	Shear Strength (kPa) 50 150	25 50 75 Liquid Limit 25 50 75	Water Level (Standpipe or Open Excavation)
Ground Surface	99.38					
TOPSOIL Sandy loam, dark brown, dry.	90.0)) 7			
FILL. Sand, some gravel, cobbles, boulders, sitty seam at 0.7 m bgs, brown, dry. Refusal at 0.8 m bgs over interred bedrock.		้า ก็จากก็จากก็จากก็จากเราน้ำ หนึ่ง เก็บ เหลืองก็จากก็จากใจ ก็จากก็จากก็จากก็จ	2 9			
End of Test Pit	89.09.0 09.0		2			
Easting: 0454003	Northing: 5017542	501754	2	NOTES		
Site Detum: Top east arm of hydrant at south entrance (100.00 m)	h entrance (1	00.00 m		BGS-	BGS- Below Ground Surface	
Groundsurface Elevation: 99.38	Top of Riser Elev.:	ser Elev	:			

Page: 1 of 1

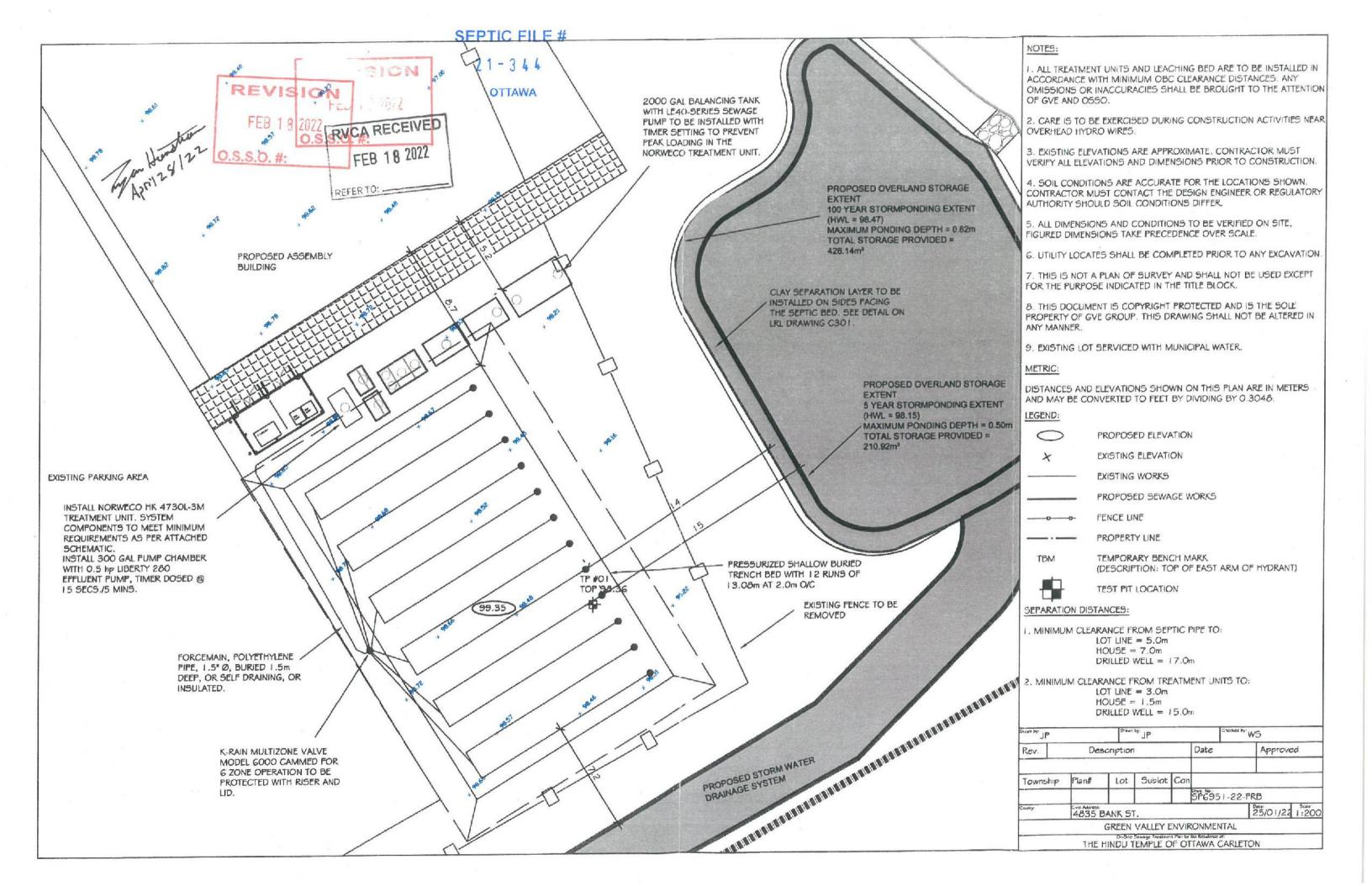
Excavation Length: N/M

Excavation Width: N/M

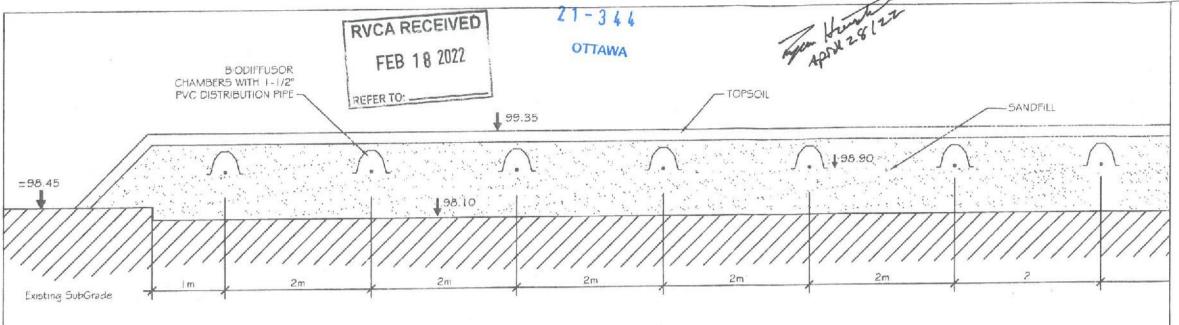
RVCA PFCFIVED FEB 18 2022

Test Pit Log: FP7 C FILE # Water Level (Standpipe or Open Excavation) 21-34 OTTAWA (133 m bgs (08/05/17) Excavation Contractor: Maurice Yelle Excavation Itd. BGS- Below Ground Surface Location: 4835 Bank Street, Ottawa, ON Water Content (%) 25 50 75 Liquid Limit (%) 25 50 75 25 25 Project: Terrain Analysis Fleid Personnel: JA Shear Strength (kPa) 50 150 NOTES Top of Riser Elev.: 100.79 Client: Hindu Temple of Ottawa Carleton SAMPLE DATA Sample Number Excavation Length: N/M Northing: 5017564 entrance (100.00 m) Lithology Excavation Method: Backhoe REFER TO 00.0 99.40 0.70 Elev./Depth (m) 1 80 Project No.: 170132 Date: May 08, 2017 Sity sand trace clay, boulders, grey, organics including tree stump, roots, bit Refusal due to obstruction (tree nogstump). FiLL Sand, brown, trace metal debris, dry Ground Surface
TOPSOIL
Sandy loam, dark brown, dry. SUBSURFACE PROFILE Site Datum: Top east arm of hydrant at Soil Description Groundsurface Elevation: 99.60 Excavation Width: N/M Easting: 0454051 E # Depth 0

Page: 1 of 1



SEPTIC FILE#



PRETREATMENT TANK

- INSTALL MIN. 32 | 5L PRETREATMENT TANK.
- A MAXIMUM OF 300mm OF SOIL SHALL COVER THE PRETREATMENT TANK.
- RISERS AND LIDS SHALL BE INSTALLED FOR EASE OF

NORWECO TREATMENT UNIT

- THE TREATMENT UNIT SHALL CONSIST OF A NORWECO HYDRO-KENETIC 4730L-3M TREATMENT UNIT.
- THE TREATMENT UNIT SHALL BE INSTALLED IN SERIES AND DOWN STREAM FROM THE PRETREATMENT TANK.
- THE TREATMENT UNIT SHALL PRODUCE A TERTIARY TREATMENT EFFLUENT QUALITY IN ACCORDANCE WITH COLUMN 2 AND 3 OPPOSITE A LEVEL IV TREATMENT UNIT OF TABLE 8.6.2.2. OF THE ONTARIO BUILDING CODE.
- THE TREATMENT UNIT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS BY A CERTIFIED INSTALLER.
- THE OWNER OF THE TREATMENT UNIT MUST ENTER INTO A MAINTENANCE AGREEMENT WITH THE MANUFACTURER'S REPRESENTATIVE.
- THE TREATMENT UNIT SHALL BE BACKFILLED AND COMPACTED, IN LIFTS, WITH SELECT GRANULAR FILL, SUCH AS SAND OR CLEAR STONE
- THE TOP OF THE TREATMENT UNIT SHALL BE ACCESSIBLE TO THE SURFACE. INSTALL RISERS AND LIDS TO SUIT.

NORWECO FILTER VAULT(S)

- FILTER VAULT(S) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
- FILTER VAULT(S) SHALL BE INSTALLED IN SERIES AND DOWN STREAM FROM THE TREATMENT UNIT
- FILTER VAULT(S) SHALL BE ACCESSIBLE TO THE SURFACE.
 INSTALL RISERS AND LIDS TO SUIT.

SHALLOW BURIED TRENCH BED

- THE DISPERSAL BED SHALL CONSIST OF A TOTAL LENGTH EQUAL TO Q/30 = 4000/30 = 133.3
- TOTAL LENGTH USED = 156.9m
- SAND FILL SHALL EXTEND I Om ON ALL SIDES.
- REMOVE LAYER OF TOP SOIL TO APPROXIMATE FOOT PRINT OF SEPTIC BED AND SIDE SLOPES
- THE PRESSURIZED DISTRIBUTION SYSTEM SHALL HAVE A PRESSURE HEAD OF NOT LESS THAN GOOMM WHEN MEASURED AT THE MOST DISTANT POINT FROM THE PUMP.
- DISPERSAL BED SHALL BE BACKFILLED SO AS TO ENSURE THAT THE SURFACE WILL NOT FORM ANY DEPRESSIONS
- ALL SIDE SLOPES SHALL BE AT 1:3
- AT NO POINT DURING OR AFTER CONSTRUCTION SHALL A WHEELED VEHICLE DRIVE OVER THE SEPTIC BED AREA.
- EACH RUN SHALL CONSIST OF ONLY FULL CHAMBERS.
- SEPTIC DESIGN BASED ON ADS BIO3 CHAMBERS.
- EACH RUN SHALL CONSIST OF 6 FULL ADS BIOS CHAMBERS WITH A TOTAL OF 72 FULL BIOS CHAMBERS FOR THE ENTIRE SEPTIC BED.

MINIMUM CLEARANCE DISTANCE FROM LEACHING BED

- G.Om FROM ANY PROPERTY LINE
- 8.0m FROM ANY STRUCTURE
- 18.0m FROM ANY DRILLED WELL

MINIMUM CLEARANCE DISTANCE FROM TANKS

- 3.0m FROM ANY PROPERTY LINE
- 1.5m FROM ANY STRUCTURE
- 15.0m FROM ANY DRILLED WELL

GENERAL

- THE BACKWASH WATERS FROM ANY HOUSEHOLD TREATMENT SUCH AS WATER SOFTENER SHALL NOT DISCHARGE INTO THE SEWAGE SYSTEM
- CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART 8 OF THE ONTARIO BUILDING CODE.
- CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO DETERMINE SUITABLE METHODS OF CONSTRUCTION.
- INSPECTION BY THE REGULATING AUTHORITIES IS A REQUIREMENT BY SOME REGULATING AUTHORITIES AND IS STRONGLY RECOMMENDED BY GREEN VALLEY ENVIRONMENTAL INC.

 IT IS RECOMMENDED THAT ALL TREES WITHIN 5m OF THE BED AREA BE
- REMOVED TO PREVENT ROOTS FROM INFILTRATING THE SYSTEM.

 THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL
- EXISTING UNDERGROUND SERVICES.

 SHOULD THE CONTRACTOR AT ANY TIME DURING CONSTRUCTION ENCOUNTER CONDITIONS THAT DIFFER FROM THE DESIGN CRITERIA IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGNER AND
- THE REGULATING AUTHORITY.

 GREEN VALLEY ENVIRONMENTAL INC. HAS PROVIDED DESIGNS BASED ON OUR INTERPRETATION OF THE ONTARIO BUILDING CODE AND THE TEST HOLES DUG ON THE PROPERTY.

- THIS CROSS SECTION IS NOT TO SCALE, ALL FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE
- THIS DOCUMENT IS COPYRIGHT PROTECTED AND IS THE SOLE PROPERTY OF GREEN VALLEY ENVIRONMENTAL INC. THIS DRAWING SHALL NOT BE ALTERED IN ANY MANNER.

JP JP		Drawn	" JP			Shecked by	W5	
v.	Des	cription			Date		Approv	ed
wnship	Plan#	Lot	Sublat	9.70-1.70-1	0.00			
					15698	7-22		
e	4835 E	BANK ST	Γ.				07/06/2	NTS
		GREEN	VALLEY E	INVIR	ONME	NTAL		
	THE H		Sowge Treatmen				ON	



Permit
Part 8 – Sewage System
Ontario Building Code

Date April 28, 2022	Permit No Revision N		1-344
	Date	April 28,	2022

Preparation of the Recommended by: Payan Hemstra Cwent: Harish Gupta Ha	This permit verifies that the on-site sewage system was reviewed and approved for construction under the <i>Ontario Building Code</i> and <i>O.Reg. 323/12</i> as amended by <i>O.Reg. 151/13</i> .	r construction under the Ontario Building Code and
Norweco HK 4730L-3M		
## 8435 Bank Street (Assembly Building) ## 1000ceste Commercial		Weather:
	-	Lot 22,
area: Commercial Lineatitation Lineatit		Gloucester:
Timer tank 3215 minimum L grain size analysis required be scartified size of the transform clay seal inspection site to be scartified size of the transform size analysis required by yes and the count of partially Raised length size of the transform size to be scartified size of the transform size of the size of the transform size of the transform size of the transform size of the transform size of the size of the transform size of the transform size of the transform size of the size of the transform size of the transform size of the transform size of the size of the transform size of the		nits:4000
Norweco HK 4730L-3M		
Timer Dosed L/15 min site to be scartified by the second list of the second list of the second list of the second list of the system Approvals: Timer Dosed L/15 min Site to be scartified 19 ks 10 no clay seal inspection 19 ks 10 no clay seal inspect to verify 10 no clay seal inspect to verify 10 no clay clay clay clay clay clay clay clay	3215 minim	■ yes
Timer Dosed L/15 min site to be scartified so to be scartified so to be scartified to the scartified so the standing sequence of the think Raised so the standard so the stand		■ yes
Norweco HK 4730L-3M Clay seal inspection 1 yes no sub-grade 1 yes no sub-grade 1 yes no sub-grade 1 yes 1 y	Timer Dosed	■ Ves
In Ground Septembers In Ground State inspection In Shallow Buried Trench In Shallow Buried Tr	10	□ yes □
Sub-grade inspection		■ sex □
In Ground Separate Fully Raised Shallow Buried Trench		■ yes □
Shallow Buried Trench pipe length Shallow Buried Trench Dipe length 156.96	☐ In Ground 🗵 Partially Raised	
Shallow Buried Trench Shallow Buried Trench		
amber amber amber amber amber amber amber and Stone or Office spacing and it length as a semily building as and it length as a and it l	O Trench	☐ Shallow Buried Trench
amber	O Pipe and Stone or O Chambers	156.96
th length It length		0.6
in length stone stone stone stone stone stone stone stone start Bed start Bed base bipe weight of filter media loading area loading sand kg setting the paration or food service within the assembly building stone stone date of issue stone date of issue loading lank approvals. Permit Date: Permit Date: Possion Date: Permit Date: Possion Date: Permit Dat		
rsal Bert O Type A ○ Type B Meight of filter media In loading area In Septic Tank Only Septic Tank Only Septic Tank Only In Septic Tank Only In Septic Tank Only In Septic Tank Only Septic Tank Only In Septic Tank Only Septic Tank Onl		FILLER Media Bed
eptic System Approvals: Color System Approvals: Color	trench configuration	
O Type A O Type B m	☐ Dispersal Bed	ded base
weight of filter media Deading area	O Type A	pipe
sand Septic Tank Only Septic Tank Only Septic Tank Only Septic Tank Only Permit Date: May 2, 2023 1. No food preparation or food service within the assembly building Septic Tank Only Permit Date: May 2, 2023 Permit Date: May 2, 2023 Septic Tank Only Permit Date: May 2, 2023 Permit Date: May 3, 2023 Permit Date: May		
sand Septic Tank Only Permit Date: May 2, 1. No food preparation or food service within the assembly building Ince/pumping required		loading area
sand The system Approvals: The system Appro		
Permit Date: May 3, 1. No food preparation or food service within the assembly building ance/pumping required	ht of sand	
1. No food preparation or food service within the assembly building ance/pumping required □ ESA permit # required □ engineer to verify □ subgrade □ subg	1	Ma. 7
ance/pumping required		
ance/pumping required		
Holding Tank approval only valid for three years from date of issue	■ maintenance/pumping required □ ESA permit # required	engineer to verify
aptic System Approvals:	Class 5 Holding Tank approval only valid for three years from date of issue	Squirt height
Comments:	Manager, Septic System Approvals:	Revision Date:
	Comments:	

RENOVATION PERMIT



Scan - Email -Phone Folder - CanadaPost -PickUp Box

3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5

Phone: 613-692-3571 Press "4"

Fax: 613-692-1507

Email: septic@rvca.ca

Address of property: 4835 Bank Street Township: Cum-Osg-Glo-Ott-Fit-Tor-Hun-Kan-Gou-Rid-Nep

Contact for pickup: _____ Phone#/Email: _____

INFORMATION FOR OWNER/APPLICANT

Attached is the completed plan review & comments for the proposed Renovation/Change of Use.

- Approval Part 10,11 TWO (2) copies attached:
 - o APPLICANT Copy #1 to retain for own reference & records
 - CITY Copy #2 ** Agent/Property Owner is responsible for delivering directly to City Plans Examiner to append to concurrent building application package**

PLEASE NOTE

- A permit is valid for 12 months from the original date of issuance noted in field labelled "permit date". If lapsed, it is not renewable.
- No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without notifying, filing details with and obtaining the authorization of the Chief Building Official. (Building Code Act 1992, c.23, s.8(12))

Visit our website for a detailed description of the review process Ottawasepticsystemoffice.ca

Questions – Contact Reviewer

ST of Rideau River: Cu	mberland, Osgoode	e, Gloucester, Ottawa
	-	
ST of Rideau River: Fitzr Jason Hutton	oy, Torbolton, Huntle x1152	y, Kanata, Goulbourn, Rideau, Nepean jason.hutton@rvca.ca

Thank You!

February 2020



Greenviale Environmental Inc., FEB 18 2022 LETTER OF AUTHORIZATION & 11-0550

Owner: Ha	rish Gupta Th	e Hindu Tem	nle of	Otlana Carleton
	- Bank St		7.	
	ster on KIXIC	66		
Phone No.: (613)	737-5939	Cell No.:	(613)	866 - 2984
		Fax No.:		200
LOCATION OF	PROPERTY:			
Lot No.:	22			
Concession No.:	5RF			
Sub lot/Part No.:	3.17			
R. Plan No.:	5R 3156			
Civic Address:	4835 Bank St			
Municipality:				
Roll No.:				
Commercial:	(provide description of building and intended use	e)		
	Existing Bulding			
	tioned authorize Green and obtain a sewage sys			
Signature:	Marth	Da	te: 7.	06.2021

RVCA RECEIVED FEB 18 2022 Reno Part 10,11

Application for a Permit to Construct or Demolish

Change of Use REFFR TO:		This form is authorized under su	bsection 8(1.1) of the B	Building Code Act, 1992
A	For use by P	rincipal Authority	NOVATION PL	ERMIT #
Application number:		Permit number (if different):	1-22-01	
Date received:		Roll number:		* D - S D - S
		P	ART 10 & 11 -	osso
Application submitted to:		CIC SYSTEM OFF		
A. Project information			SALES L.	
Building number, street name 4835	Sank St		Unit number	Lot/con. 22/5
Municipality Glovcester	Postal code	Plan number/other of 5 R	escription 3156	
Project value est. \$	4	Area of work (m²)		
B. Purpose of application				
PALLANDA CON PETRONO CONTON MACHINERY CONTON CO	ion to an c	Alteration/repair	Demolition	Conditional Permit
Proposed use of building Residential		nt use of building Resident	ial	
Commercial		Commer	cial	
Other:		Other:		
Description of proposed work Check ALL that Add BEDROOMS Y N Add FIXTURES Y N Add FINISHED FLOOR AREA Y N CHANGE of USE	If OTHER, p	lease describe project here:	oval of Kitcher	facilities.
C. Applicant Applicant is:	Owner or	Authorized agent of	owner	
Last name Fruner	First name Jacob	Green Valley	ership	1. loc.
Street address 6107 First Lin)	Unit number	Lot/con.
Municipality North Gover	Postal code K4M 1A	7 Province	E-mail	regioup. Ca
Telephone number (613) 672 - 7616	Fax (613)692	1800	Cell number (613)229-	
D. Owner (if different from applicant)				
Last name Gupta	First name Horisk	Corporation or partn The Hindu Temple	ership of Ottawa Co.	lelon
Street address 4335 Bank St.		1	Unit number	Lot/con.
Municipality Glovcester	Postal code KIA IG6	Province	E-mail horish gee@ ye	ahoo com.
Telephone number (613) 737 - 5939	Fax ()	9	Cell number	2984
Application for a Permit to Construct or Demolish - 8	Effective January 1, 20	14	District of the second	N. S. MOM

FEB 1 8 2022

E. Builder (optional)		D	ENOVATION	I DEPART #
Last name RI	FERRitist name	Corporation or partnershi	p (if applicable)	V PERMIT #
Oler Andrews	and the second s			A
Street address			number 2 -	Pardou?
Municipality	Postal code	Province I	PART 10 &	11 - OSSO
Telephone number ()	Fax ()		Cell number	
F. Tarion Warranty Corporation (Onta	ario New Home Warrar	nty Program)		
i. Is proposed construction for a new h Plan Act? If no, go to section G.			Yes	No L
ii. Is registration required under the On	ntario New Home Warrantie	es Plan Act?	Yes	No /
iii. If yes to (ii) provide registration num	ber(s):			
G. Required Schedules i) Attach Schedule 1 for each individual who	rovious and takes respon	sibility for design activities		
TO THE WORLD SHEET OF THE SECOND SHEET OF SHEET SHEET OF THE SHEET SHEET OF THE SHEET SHEE				
ii) Attach Schedule 2 where application is to o		repair a sewage system.		
H. Completeness and compliance with	th applicable law			
 This application meets all the requirement Building Code (the application is made in applicable fields have been completed on schedules are submitted). 	the correct form and by the the application and require	e owner or authorized agent, ed schedules, and all require		No
Payment has been made of all fees that a regulation made under clause 7(1)(c) of th application is made.			Yes 🗸	No
 ii) This application is accompanied by the pla resolution or regulation made under clause 			aw, Yes	No
iii) This application is accompanied by the infilaw, resolution or regulation made under of the chief building official to determine whe contravene any applicable law.	clause 7(1)(b) of the Buildin	ng Code Act, 1992 which ena	ble	No
iv) The proposed building, construction or de	molition will not contravene	e any applicable law.	Yes 🗸	No
I. Declaration of applicant				Water Barrier
Jacob Proner (print name)			dec	clare that:
The information contained in this ap documentation is true to the best of 2. If the owner is a corporation or partn Date The bruth 7 2.	my knowledge. ership, I have the authority	The second secon	artnership.	er attached

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act*, 1992, and will be used in the administration and enforcement of the *Building Code Act*, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor, Toronto, M5G 2E5 (416) 585-6666.

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

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B-22-014

RENOVATION PERMIT *

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information				
Building number, street name 483.5	Bank	⊅Ł.	Unit no.	Lot/con.27/5
Municipality Glovcester	Postal code	Plan number/ other desc	cription 5R313	56
B. Individual who reviews and take	s responsibil			
Name Jacob Proner		FirmGreen Valley	Environment	lal Inc.
Street address 6107 First Line			Unit no.	Lot/con.
Municipality North Gower	Postal code K4M IA7	Province ON	E-mail Congineering	Egregiosp. Lei
Telephone number (613) 697 - Z616	Fax number (613) 692	7 - 1807	Cell number (613) 22	9-5890
C. Design activities undertaken by Division C]	The second secon			
House Small Buildings Large Buildings Complex Buildings	Buildin Detect	House g Services ion, Lighting and Power rotection	Plumbin Plumbin	Structural g – House g – All Buildings Sewage Systems
Review Proposed Changes to	determ no	change of use		
D. Declaration of Designer	NOT FINE !	A. S. S.		
1 Jacob Proser	ne)		declare that (choo	ose one as appropriate):
I Jacob Prover (print name of the Prover) I review and take responsibility C, of the Building Code. I am a lindividual BCIN: 11:3 Firm BCIN: 160	y for the design qualified, and the 15 I	he firm is registered, in the	gistered under sub appropriate classe	esection 3.2.4 of Division s/categories
(print name of the Property of the Building Code. I am Individual BCIN:	ty for the design qualified, and the 15 inches of 15 inch	he firm is registered, in the	gistered under sub appropriate classe	esection 3.2.4.of Division s/categories.
I Tacob Provided (print name) I review and take responsibility C, of the Building Code. I am Individual BCIN: 11:3 Firm BCIN: 160 I review and take responsibility under subsection 3.2.5. of Div	y for the design qualified, and the 75 i	he firm is registered, in the	gistered under sub appropriate classe	esection 3.2.4 of Division s/categories
(print name) I review and take responsibility C, of the Building Code. I am Individual BCIN:	y for the design qualified, and the 15 less of the design ision C, of the E registration:	he firm is registered, in the and am qualified in the ap Building Code.	gistered under sub appropriate classe propriate category	esection 3.2.4 of Division s/categories. as an "other designer"
(print name) I review and take responsibility C, of the Building Code. I am Individual BCIN:	ty for the design qualified, and the 15 in the design is in C, of the E in registration:	and am qualified in the ap Building Code.	gistered under sub appropriate classe propriate category ements of the Build	esection 3.2.4 of Division s/categories. as an "other designer"

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

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

Version August 2019

Page 3

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FEB 18 2022

RENOVATION PERMIT #

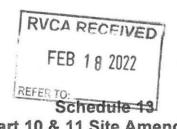
8-22-014

REFER TO:

Schedule 2: Sewage System Installer Information

A. Project Information	in the same of			
Building number, street name 4835		1	Unit number	Lot/con. 72/5
Municipality Glovcester	Postal code	Plan number/ other desc	cription 5 R 315	6.
B. Sewage system installer				
Is the installer of the sewage system engagemptying sewage systems, in accordance Yes (Continue to Section C)	e with Building Co		C? Installer	servicing, cleaning or unknown at time of on (Continue to Section E)
C. Registered installer information	n (where answ	ver to B is "Yes")		
Name			BCIN	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number ()	Fax ()		Cell number	
D. Qualified supervisor information	on (where ans	wer to section B is "Yes	s")	
Name of qualified supervisor(s)		Building Code Identification	n number (BCIN)	
E. Declaration of Applicant:				
Jacob Privar				declare that:
(print name)				
I am the applicant for the permi shall submit a new Schedule 2 OR I am the holder of the permit to is known.	prior to construct	ion when the installer is kno	own;	
I certify that:				
The information contained in this	s schedule is true	to the best of my knowledg	ge.	
2. If the owner is a corporation or p	artnership, I hav	e the authority to bind the co	orporation or partner	ship.
Date February	1 2022	Signature of applicant	The for	7





B-22-014
PART 10 & 11-0550

Part 10 & 11 Site Amendment Check All that apply to project

	Site Amendment/Description of Proposed Change/Renovation
Γ	Residential Commercial Property
Г	Bedrooms: #Existing +#Proposed =
1	Exceeding 15% of the gross area of the dwelling units for proposed addition Change in Use: Major occupancy (e.g. residential to commercial) Occupant load (e.g. Office to warehouse) Please describe proposed use: Removal of Kitchen facilities.
	☐ Installation of a POOL not meeting O.B.C Regulation setback distances
	☐ Installation of a DECK not meeting O.B.C Regulation setback distances
	Required attachments
	To be supplied by applicant/agent at applicant's expense:
	 One of the following documents to DESCRIBE CURRENT SEPTIC SYSTEM (ONE x1 copy): A. Copy of current sewage system approval (Use permit/ Certificate of Completion) B. Professional engineer's report indicating size and location of system
	 Each of these documents to DESCRIBE PROPOSED RENOVATION (ONE x1 copy) A. Copy of site plan: Drawn to scale, indicating the layout of the existing building, well, other structures i.e shed,workshop,cabana B. Completed Reno 10,11 Application Form C. Copy of Building Plans: Drawn to scale, showing the changes/additions as proposed

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

RVCA	REC	EIVED
FEB	18	2022
REFER TO: _		

RE NOT Complete
Permit #
Revision#
Date: 0550
PARTIUGI

Schedule 8 Fixture unit count

Fixtures	3 Aprilia	nt	Worsh. 12 Bilding	Xι	unit count	=	Fixture C	ount
Bathroom Bathroom group (toilet, sink and tub or shower) installed in the same room	3	+		X	6	=	18	
Bathtub with/without overhead shower		+	2	X	1.5	=		3
Shower stall		+		X	1.5	=		
Wash basin (SINK) (1½inch trap)		+	6	X	1.5	=		9
Watercloset (TOILET) tank operated		+	4	X	4	=		16
Bidet		+		X	1	=		
Kitchen								
Dishwasher		+		X	11	=		
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap	3	+	2	x	1.5	=	45	3
Other Domestic washing machine	1	+		X	1.5	=	1.5	
Combination sink and laundry tray single or double (Installed on 1½ trap)		+		X	1.5	=		
*Incort the TOTAL in School 12 (0 De					**	Tota	al: ²⁴	31

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

Total: 55

Sump pumps and floor drains are not to be connected to the sewage system. Connection
of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The
above mentioned fixtures should be discharged separately to an approved Class 2 (leaching
pit) sewage system.

2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

Agent/Owner signature

Date

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OSSO version August 2019



Do Not	Complete
Permit N	No B-22-014
Revision	n No
Date	· ·

Permit

Part 10/11- Change of Use/Renovation Ontario Building Code

This permit verifies that the on-site sewage system was reviewed under the Ontario Building Code and Ontario Regulation 350/06 as amended by Ontario Regulation 503/09

Reviewed & Recommended by: Ryan Hiemstra	Owner: Harish Gupta					
Civic Address: 4835 Bank Street (Existing Building	Legal: Lot 22, Con 5RF, Plan 5R3156					
Roll #:						
NON-RESIDENTIAL	Existing number of bedrooms					
□ Industrialm²	Existing finished floor area m ²					
Institutional	Existing number of fixture units					
Proposed design flow 4825 L/day	Existing design flow L/day					
Type of system: ☑ Trench ☐ Filter Media Bed	☐ Area Bed ☐ Treatment Unit ☐ Effluent filter					
Bed Configuration runs at	m					
Tank sizeL see OSSO perm	it # 21-343 for replacement system					
Permit Refused By:						
Terry K. Davidson, P.Eng., Manager Septic System Approvals	Date					
Permit Refused for the following reasons:						
☐ Contact a licensed installer	☐ Building plans required					
☐ Must obtain a permit for tank replacement☐ Must obtain a permit for new sewage system	☐ Septic system records required☐ Engineer's assessment of septic system required					
☐ Must obtain a permit for new sewage system ☐ Must obtain a permit for effluent filter and riser	Engineer's assessment of septic system required					
Downit Managed and Insued Buy						
Permit Approved and Issued By:						
May 2, 2022						
Terry K. Davidson, P.Eng., Manager - Septic System Approvals Permit Date						
Details and Conditions of Approval: 1. Refer to OSSO permit # 21-343 for replacemen	t evetem					
2. Kitchen facilities to be removed						
3. No food preparation or food service within the w	vorship building					
Terry K. Davidson, P.Eng., Manager - Septic System Approva	als Revision Date					
Details and Conditions of Approval:						

Note: this permit is valid for 12 months from the date of signing. It is not renewable.