

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 8028-C2KH4J

Issue Date: July 12, 2021

Muskoka Ministry Centre
8 Pioneer Avenue Ave
Huntsville, Ontario
P1H 2J3

Site Location: 8 Pioneer Avenue
Tonw of Huntsville, District Municipality of Muskoka

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act , R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

establishment, use and operation of the proposed sewage Works for the treatment and subsurface disposal of domestic sewage, with a daily sanitary sewage flow of 2,400 litres per day to service a new cottage, located on Lot 6 (6 Fellowship Lane) at the above Site Location, and consisting of the following:

Proposed Works:

Decommissioning or removal and offsite disposal of existing septic tank as required to construct the replacement sewage system and removal or abandonment of existing leaching bed as required to construct replacement sewage system.

One (1) proposed two-compartment septic tank receiving influent by gravity from the above mentioned cottage with a capacity of approximately 6,135 litres, equipped with an OBC approved effluent filter, discharging by gravity to the filter bed described below;

One (1) in-ground filter bed consisting of four (4) runs of ARC 18 chamber system, each 9 metres long spaced 0.9 metres apart, installed within a stone layer over a 750 millimetres deep sand filter medium, having a contact area of 32 square metres;

including all other controls, electrical equipment, instrumentation, piping, valves and appurtenances essential for the proper operation of the aforementioned sewage works.

Existing Works:

Continued use and operation of existing sewage Works consisting of three (3) sewage lagoons with a total available storage volume of 22,654 m³ to treat sewage volume of 28,270 cubic metres per year (m³ /year), upgraded with four (4) aerators, and

discharging treated effluent via an existing spray irrigation system to six (6) existing spray irrigation fields and one (1) proposed irrigation field, with a maximum spray rate of 57,000 litres/day/ hectare, and approval of use and operation of forty one (41) existing individual sewage Works with subsurface disposal to service existing Main Lodge/Conference Centre, Dormitory, seasonal campground, and forty one (41) seasonal leased cottages, all located at the Muskoka Bible Centre, as follows:

Existing Irrigation Field (F2)

One (1) proposed irrigation field F2 in addition to six (6) existing irrigation fields (A-E & F1) to provide an additional spray irrigation area of 0.71 ha, equipped with six nozzle array;

Existing Sewage Lagoons with Spray Irrigation System

(original Approval # 3-0870-86-886 issued in 1988 and Notice # 3-0870-86-886 issued on March 3, 1999)

Three (3) existing sewage lagoons (1, 2 & 3) with a total volume of 22,654 m³ to treat an annual design flow of 28,270 m³ /year, upgraded with four aerators as follows: one (1) Kasco model F3400 in Lagoon 1, one (1) Kasco model F2400 in Lagoon 2 and two (2) Kasco model F3400 in Lagoon 3;

An existing spray irrigation system consisting of an array of six (6) elevated spray nozzle heads with a spray radius of 19.5 m (when operated at 40 psi) installed within each of the six existing spray irrigation fields with a total area of 4.55 ha, as listed below, discharging effluent on a seasonal basis (semi-annually over 100 days) at a maximum spray rate of 57,000 L/d/ha;

existing "as-built" Field A (0.78 ha);

existing "as-built" Field B (0.64 ha);

existing "as-built" Field C (0.79 ha);

existing "as built" Field D (0.76 ha);

existing "as built" Field E (0.87 ha);

existing "as built" Field F1 (0.71 ha);

including all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage Works;

Existing Individual On-Site Sewage Systems

Forty one (41) existing individual on-site sewage systems with leaching beds, each serving its own cottage, as summarized in the table below:

Lot No.	Current Address	Permit No.	Daily Flow & Number of bedrooms	Septic Tank Capacity [litres]	Leaching Bed - total length - number of runs - pipe diameter
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			[litres/day]		
1	15 Fellowship Lane		1,100 2 bedrooms	3,600	L = 70.1m (5 runs @12.2m + 1 run @ 9.1m; 75 mm dia
2	11 Fellowship Lane		2,000 4 bedrooms	3,600	L = 48.8m (4 runs @ 12.2m 100 mm dia
3	9 Fellowship Lane		2,000 4 bedrooms	3,600	L = 69.8m (6 runs @9.1m +2 runs @ 7.6m;
4	7 Fellowship Lane		1,600 3 bedrooms	2,700	L = 51m (6 runs @ 8.5m 75 mm dia
5	4 Maple Grove		1,600 3 bedrooms	3,600	L = 60.8m (4 runs @ 15.2m)
7	4 Fellowship Lane		1,600 3 bedrooms	2,700	L = 76m (5 runs @ 15.2m)
8	5 Sugar Bush Lane		1,600 3 bedrooms	3,600	L = 48.8m (4 runs @ 12.2m)
9	11 Sugar Bush Lane		2,500 5 bedrooms	2,700	L = 73m (4 runs @ 15.2m + 2 runs @ 13.7m)
10	17 Sugar Bush Lane		1,600 3 bedrooms	2,700	L = 58.2m (6 runs @ 9.7m)
11	14 Sugar Bush Lane	BR/61/A/74	2,200 4 bedrooms	3,400	L = 72m (6 runs each @ 12m) 100 mm dia
12	12 Sugar Bush Lane		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m) 100 mm dia
13	6 Sugar Bush Lane	BR/26/79	1,600 4 bedrooms	3,600	L = 60m (5 runs each @ 12m) 100 mm dia
14	127 Hood Road	BR/19/A/74	1,600 3 bedrooms	4,500	L = 60m
15	123 Hood Road	BR/17/A/74	1,600	2,700	L = 60m

			3 bedrooms		
16	119 Hood Road	BR/73/88	1,600 3 bedrooms	3,600	L = 22m (4 runs each @ 5.5m); 75 mm dia
17	115 Hood Road	BR/11/80	1,600 3 bedrooms	3,600	L = 60m (5 runs each @ 12m) 100 mm dia
18	109 Hood Road		1,100 2 bedrooms	2,700	L = 48.8m (4 runs @12.2m)
19	105 Hood Road	BR/23/80	1,600 3 bedrooms	3,600	L = 60 m (4 runs each @15m) 100 mm dia
20	101 Hood Road		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m)
21	58 Maple Grove		1,600 3 bedrooms	2,700	L = 50m (4 runs @ 12.5m) 75 mm dia
22	52 Maple Grove		1,600 3 bedrooms	4,500	L = 72.5m (5 runs @ 14.5m)
23	46 Maple Grove		2,500 5 bedrooms	2,700	L = 74.5m (4 runs @ 15.2m + 1 run @ 13.7m); 100 mm dia
24	40 Maple Grove		1,600 3 bedroom	2,700	L = 60.8m (4 runs @ 15.2m) 100 mm dia
25	34 Maple Grove	BR / 37 / 77	1,600	3,600	L = 60m (4 runs each @ 15m)
26	28 Maple Grove	BR / 27 / 76	1,600	2,700	L = 60m (4 runs each @ 15m)
27	20 Maple Grove		2,000 4 bedrooms	2,700	L = 76m (5 runs @ 12.5m) 100 mm dia
28	10 Fellowship Lane		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m)
29	5 Maple Grove		1,100 2	2,700	L = 60.8m (4 runs @ 15.2m)

			bedrooms		
30	21 Sugar Bush Lane		2,000 4 bedrooms	3,600	L = 67.2m (3 runs @ 10.6m + 2 runs @ 11.6m + 1 @12.2m)
31	24 Sugar Bush Lane		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m)
32	9 Maple Grove		1,600 3 bedrooms	2,700	L = 58.2m (6 runs @ 9.7m) 75 mm dia
33	15 Maple Grove		1,600 3 bedrooms	2,700	L = 68.4m (6 runs @ 11.4m) 75 mm dia
34	21 Maple Grove		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @15.2m 100 mm dia
35	25 Maple Grove		2,000 4 bedrooms	2,700	L = 76m (5 runs @ 15.2m) 100 mm dia
36	33 Maple Grove		2,000 4 bedrooms	2,700	L = 68.5m (5 runs @ 13.7m)
37	39 Maple Grove	BR/10/75	1,600 3 bedrooms	2,700	L = 66m (6 runs each @ 11m) 75 mm dia
38	45 Maple Grove		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m)
39	53 Maple Grove		2,000 4 bedrooms	3,600	L = 54.8m (4 runs @ 13.7m)
40	57 Maple Grove		1,600 3 bedrooms	2,700	L = 60.8m (4 runs @ 15.2m) 100 mm dia
41	17 Fellowship Lane		1,600 3 bedrooms	2,700	L = 48.2m (3 runs @ 12.2m + 1 run @ 11.6m)

all in accordance with supporting documentation submitted to the Ministry as listed in the Schedule A in this Approval.

For the purpose of this environmental compliance approval, the following definitions

apply:

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "Average Daily Flow" means the cumulative total sewage flow to the sewage works during a calendar year divided by the number of days during which sewage was flowing to the sewage works that year;
3. "Average Effluent Application Rate" means the total volume of effluent applied to a spray irrigation field during particular spray irrigation season divided by the number of days within that season during which effluent was actually applied to that field.
4. "CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;
5. "Daily Concentration" means the concentration of a contaminant in the effluent discharged over any single day, as measured by a composite or grab sample, whichever is required;
6. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;
7. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
8. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
9. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;
10. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28;
11. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
12. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
13. "OBC" means the Ontario Building Code, Ontario Regulation 332/12 (Building Code) as amended to January 1, 2015, made under the *Building Code Act*, 1992, S.O. 1992, c. 23;
14. "Owner" means Muskoka Ministry Centre and its successors and assignees;

15. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
16. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
17. "Rated Capacity" means the Average Daily Flow for which the Works are approved to handle;
18. "Seasonal Average Concentration" means the arithmetic mean of the Daily Concentration of a contaminant in the effluent calculated for the Spray Irrigation Season for any particular calendar year.
19. "Spray Irrigation Season" means the period of time during a calendar year when effluent is spray irrigated to a designated spray irrigation field;
20. "Works" means the approved sewage works, and includes Proposed Works, and Existing Works.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of

the following changes within thirty (30) days of the change occurring:

- a. change of Owner;
 - b. change of address of the Owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c. B17 shall be included in the notification to the District Manager;
 - d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C. 39 shall be included in the notification to the District Manager;
2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the works is supervised by a licensed installer or a Licensed Engineering Practitioner.
2. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance distances as specified in the OBC are satisfied.
3. Upon construction of the works, the Owner shall prepare a statement, certified by a licensed installer or a Licensed Engineering Practitioner, that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff and staff of the local municipality.
4. Upon construction of the Works, the Owner shall prepare a set of as-built drawings showing the works "as constructed". "As-built" drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the site for the operational life of the Works and shall be made available for inspection by Ministry staff.

5. EFFLUENT OBJECTIVES

1. The Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent applied to the spray irrigation field.
2. The Owner shall use best efforts to:

- a. operate the works within the Rated Capacity of the Works;
 - b. ensure that the effluent from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discoloration prior to being discharged by spray irrigation.
3. The Owner shall include in all reports submitted in accordance with Condition 10 a summary of the efforts made and results achieved under this Condition.

6. EFFLUENT LIMITS

1. The Owner shall operate and maintain the Works such that the effluent limits for the parameters listed in Table 2 of Schedule B are not exceeded in the effluent from the sewage lagoons, prior to spray irrigation.

7. OPERATION AND MAINTENANCE

1. The Owner shall ensure that, at all times, the Works and the related equipment and appurtenances used to achieve compliance with this Approval are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall maintain an operations manual, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of all the Works;
 - b. inspection programs, including frequency of inspection, for all the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for the Works; copies of maintenance contracts for any routine inspections & pump-outs should be included;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the Spills Action Centre (SAC) and District Manager; and
 - f. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

3. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
4. The Owner shall provide for the overall operation of the Works with an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.
5. The Owner shall ensure that the septic tank is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter is cleaned out at minimum once a year (or more often if required).
6. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed(s), and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.
7. The Owner shall visually inspect the general area where the subsurface disposal beds are located for break-out once every month during the operating season.
8. In the event a break-out is observed from a subsurface disposal bed, the Owner shall do the following:
 - a. sewage discharge to that subsurface disposal system shall be discontinued;
 - b. the incident shall be **immediately** reported verbally to the Spills Action Centre (SAC) at (416) 325-3000 or 1-800-268-6060;
 - c. submit a written report to the District Manager within **one (1) week** of the break-out;
 - d. access to the break-out area shall be restricted until remedial actions are complete;
 - e. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and
 - f. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.

8. SPRAY IRRIGATION

1. The Owner shall ensure that the spray irrigation system is operated such that:
 - a. the disposal of effluent is via spray irrigation only and effluent is applied only on the spray irrigation area as identified in the application;
 - b. the effluent is applied evenly over the spray irrigation area and minimize the overlap between spray coverage zones;
 - c. there is no surface run-off from the spray area during spray irrigation

operation;

d. no spray irrigation is to take place:

- i. when the average concentration of a contaminant in the lagoon effluent as measured under the requirements of Condition 9 exceeds the effluent limit set out in Condition 6;
- ii. on frozen ground or between November 15 and April 15 of any calendar year;
- iii. when reported wind speed exceeds 15 kilometres per hour;
- iv. during the rainfall event or with occurrence of aerosol drift off the property or surface ponding;
- v. within 15 metres of any surface watercourse or drain; and
- vi. at a rate greater than 57 cubic metres per hectare of spray irrigation area per day over the Spray Irrigation Season.

2. The Owner should ensure that the application of effluent to the approved spray irrigation area is carried out in a manner that maximizes evapotranspiration and allows the soil to dry out periodically.
3. The Owner should ensure that the effluent spray irrigation system is operated in a manner that precludes the sprayed effluent ponding, run-off, and aerosol drift beyond the limits of the spray irrigation field at all times.
4. The Owner should ensure that whenever ponding or run-off of sprayed effluent occurs, the application of effluent to the affected area of the spray irrigation field is immediately terminated, and adequate time is allowed before resumption of the application of effluent to that area for the area to dry to a degree that would preclude immediate recurrence of ponding or run-off.
5. The Owner shall provide and maintain a suitable fence with lockable access gates around the lagoon cells and spray area.
6. The Owner shall provide and maintain suitably posted signs at all points of access to the spray irrigation area and the sewage lagoon, indicating that the treated sewage effluent is being used to irrigate the field and that trespassing is prohibited.
7. The Owner shall ensure that the lagoon berms are free of all brush and woody vegetation. Lagoon berms shall be closely monitored for structural integrity and any irregularities shall be immediately reported to the District Manager.
8. The Owner shall ensure no overflow of the pond contents at any time.
9. The Owner shall ensure that the sewage treatment facility is to be operated in such a manner that no sewage is allowed to be discharged either directly or

indirectly to a watercourse.

9. MONITORING AND RECORDING

1. The Owner shall carry out a monitoring program, and all samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
2. Samples shall be collected and analyzed at the following sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the Effluent Monitoring Tables 3 and 4 in Schedule B.
3. The methods and protocols for sampling, analysis, toxicity testing, and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
 - a. the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended;
 - b. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;
 - c. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition) as amended from time to time by more recently published editions;
 - d. for any parameters not mentioned in the documents referenced in Paragraphs 3.a, 3.b and 3.c, the written approval of the District Manager shall be obtained prior to sampling.
4. The measurement frequencies specified in the effluent monitoring table in Schedule B in respect of any parameter are minimum requirements which may, after three years of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.
5. The Owner shall measure or estimate and record the daily quantities of sewage being conveyed to the sewage lagoon and the lagoon effluent being disposed by spray irrigation onto the spray irrigation area.
6. The Owner shall install and maintain a level gauge to monitor lagoon level and a flow measuring device to measure the number of spray hours, the flowrate and the volume of effluent sprayed.
7. The Owner shall retain for a minimum of **five (5) years** from the date of their creation, all records and information related to or resulting from the monitoring

activities required by this Approval.

10. REPORTING

1. The Owner shall report to the District Manager or designate, any exceedence of any parameter specified in Condition 7 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedence.
2. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges), the Owner shall, within fifteen (15) days of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
3. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
4. The Owner shall prepare, and submit to the District Manager, a performance report, on an annual basis, within ninety (90) days following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 6, including an overview of the success and adequacy of the Works;
 - b. a tabulation of sewage flows for the year;
 - c. a tabulation of spray irrigation days, hours, and spray volumes;
 - d. a description of any operating problems encountered and corrective actions taken;
 - e. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
 - f. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - g. a description of efforts made and results achieved in meeting the effluent objectives of Condition 5;
 - h. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - i. a summary of all spills or abnormal discharge events;

- j. a description of any operating problems encountered and corrective actions taken; and
- k. any other information the District Manager requires from time to time.

11. DECOMMISSIONING OF UN-USED SEWAGE WORKS

1. The Owner shall properly abandon any portion of unused existing sewage Works, as directed below, and upon completion of decommissioning report in writing to the District Manager.
 - a. any sewage pipes leading from building structures to unused sewage Works components shall be disconnected and capped;
 - b. any unused septic tanks, holding tanks and pump chambers shall be completely emptied of its content by a licensed hauler and either be removed, crushed and backfilled, or be filled with granular material;
 - c. if the area of the existing leaching bed is going to be used for the purposes of construction of a replacement bed or other structure, all distribution pipes and surrounding material must be removed by a licensed hauler and disposed off site at an approved waste disposal site; otherwise the existing leaching bed may be abandoned in place after disconnecting, if there are no other plans to use the area for other purposes.

Schedule A

1. Application for Approval of Municipal and Private Water and Sewage Works together with revised detailed engineering drawings and revised report (Apr. 1987) prepared by Paragon Engineering Limited, Consulting Engineers for approval of new (third) sewage lagoon (13,700 m³) and modifications to two existing sewage lagoons, together with new spray irrigation fields having a combined area of 2.85 ha (C of A # 3-0870-86-886 issued on May 16, 1988).
2. Application for Approval of Municipal and Private Water and Sewage Works together with plans, monitoring reports and calculations dated November 23, 1998, submitted by C.C. Tatham & Associates Ltd., Consulting Engineers, Site Planners, Landscape Architects to reflect average sewage loading rate of 28,270 m³/year (Notice to C of A # 3-0870-86-886 issued on March 3, 1999).
3. Environmental Compliance Approval Application for Sewage Works dated April 1, 2015 for amendment to Approval # 3-0870-86-886, submitted together with "Muskoka Bible Centre Sewage Design Brief" (# 14-11132) dated March 11, 2015 by Pinestone Engineering Ltd., and all other correspondence and technical documentation in support of this application (Amended ECA # 3609-ABML4M issued on November 30, 2016).
4. Environmental Compliance Approval Application for Sewage Works dated December 8, 2017, received at the Ministry on January 26, 2018 for amendment to Approval # 3609-ABML4M, submitted together with "Muskoka Bible Centre Sewage Design Brief

December 2017 Amendment (# 14-11132) dated December 21, 2017 by Pinestone Engineering Ltd., and all other correspondence and technical documentation in support of this application.

5. Environmental Compliance Approval Application for Municipal and Private Sewage Works dated December 14, 2020 and received on January 27, 2020, submitted by Muskoka Ministry Centre, including all other correspondence and technical documentation in support of this application.

Schedule B

Table 1: Effluent Objectives Table for Effluent Applied to the Spray Irrigation Fields

Effluent Parameter	Average Calculator	Objective
CBOD5	Seasonal Average Effluent Concentration	25.0 mg/L
Total Suspended Solids	Seasonal Average Effluent Concentration	30.0 mg/L
pH	Seasonal Average Effluent Concentration	between 6.5 - 9.0 inclusive

Table 2: Effluent Limits Table for Effluent Applied to the Spray Irrigation Fields

Effluent Parameter	Average Calculator	Limit
CBOD5	Seasonal Average Effluent Concentration	30.0 mg/L
Total Suspended Solids	Seasonal Average Effluent Concentration	40.0 mg/L
pH	Seasonal Average Effluent Concentration	between 6.0 - 9.5 inclusive

Table 3: Effluent Monitoring for Lagoons
(At Least One Week Prior to Spray Irrigation period)

Frequency	Once before the spray irrigation event Three (3) samples to be collected at three different locations at each lagoon
Sample Point	Lagoons
Sample Type	Grab
Parameters	CBOD5, Total Suspended Solids, Total Phosphorus, Total Ammonia Nitrogen, Nitrate Nitrogen

Table 4: Effluent Monitoring for Lagoons
(During Spray Irrigation Period)

Frequency	Once every two weeks during the spray irrigation period
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Sample Point	Spray irrigation main pipe
Sample Type	Grab
Parameters	CBOD5, Total Suspended Solids, Total Phosphorus, Total Ammonia Nitrogen, Nitrate Nitrogen

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the Works are constructed in accordance with the Approval and that record drawings of the Works “as constructed” are updated and maintained for future references.
5. Condition 5 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliance limits of Condition 6 are exceeded.
6. Condition 6 is imposed to ensure that the effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
7. Condition 7 is included to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.

8. Condition 8 is included to ensure that the Works are operated in a manner that minimizes any off property impacts from the spray irrigation operation.
9. Condition 9 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives and effluent limits specified in the Approval and that the Works does not cause any impairment to the environment.
10. Condition 10 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
11. Condition 11 is included to ensure that any components of un-used Works are properly decommissioned.
- 12.
- 13.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 6888-B5WH2W issued on November 22, 2018.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1
of the Environmental Protection Act
Ministry of the Environment, Conservation and
Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 12th day of July, 2021

Fariha Pannu, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental
Protection Act*

JY/
c: District Manager, MECP Barrie
Timothy Harvey, P.Eng., Pinestone Engineering Ltd.