

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 7274-DU8JLR

Issue Date: September 22, 2026

Grand Valley RV Resort Ltd.
174366 Dufferin County Road 25
Town of Grand Valley,
Ontario, L9W 0L9

Site Location: 174366 Dufferin County Road 25
Town of Grand Valley, County of Dufferin
Ontario, L9W 0L9

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, usage and operation of new non-municipal Works, for the treatment of sanitary sewage from Seasonally operated Grand Valley RV Resort (recreational vehicle) Ltd. and disposal of treated effluent to Grand River via a Sewage Treatment Plant and Final Effluent disposal facilities as follows:

Classification of Sewage Treatment Plant: Tertiary Proprietary Design

Classification of Sewage Treatment Plant (Prior to Completion of Construction of All Proposed Works):
Class 4 septic tanks and subsurface effluent disposal with Heath Unit Permits;

Classification of Sewage Treatment Plant (Upon Completion of Construction of All Proposed Works):
Tertiary with Proprietary Waterloo Biofilter MBBR System

Details of Service Area:

- **Type of Occupancy:** Seasonal Recreational/Residential
- **Type and Number of Units:** 299 full serviced including 25 PMUs, 6 transient full serviced, 4 un-serviced tent sites, one front office and store, one comfort station, a washroom, a laundry and a pool.

Design Capacity of Sewage Treatment Plant:

Design Capacity with All Treatment Trains in Operation	Existing Works-unknown, to be decommissioned.
Rated Capacity / Maximum Daily Flow	174 m ³ /d

Design Capacity with All Treatment Trains in Operation	Prior to Completion of Construction of All Proposed Works.	Upon Completion of Construction of All Proposed Works
Rated Capacity / Maximum Daily Flow	Combined Septic Tank Capacity of 191cu.m; discharging to several Beds. No additional treatment	174 m ³ /d

Influent and Imported Sewage

Receiving Location	Types
In Collection System	Sanitary Sewage
At Sewage Treatment Plant	None

Proposed Works: Grand Valley Wastewater Treatment Plant (WWTP)**Preliminary Treatment System:**

1. Flow Equalization: Two (2) 64,100 L capacity tanks connected together by bottom drains for Flow Equalization for a total volume of 128,200 L; equipped with two (2) submersible sewage pumps operating on an alternating timer. Sewage is pumped at a rate of 7.2 cu.m./hour into on-line sludge storage tanks;
2. Two (2) 64,100 L capacity off-line Sludge Storage tanks arranged in series, providing a total volume of 128,200 L; to discharge effluent by gravity into the on-line sludge storage tanks as follows:
3. Two (2) 64,100 L capacity on-line Sludge Storage tanks arranged in series, providing a total volume of 128,200 L; effluent flows by gravity into primary clarifier tank;
4. One (1) 46,300 L Primary Clarifier tank; effluent flows by gravity into a proprietary designed Pre-Denitrification MBBR tank;
5. One (1) 35,200 L Pre-Denitrification MBBR tank, equipped with MBBR carrier media;

effluent flows by gravity into Aerobic Bioreactor #1;

Secondary Treatment System:

1. One (1) 45,400 L Aerobic Bioreactor #1 tank equipped with MBBR carrier media, fine bubble diffusers, and a blower; effluent flows by gravity into Bioreactor #2.
2. Two (2) 45,400 L capacity Bioreactor #2 tanks, arranged in series, providing a total volume of 90,000 litres, equipped with MBBR carrier media, fine bubble diffusers, a blower and submersible pumps. A portion of the effluent from Bioreactor #2 is pumped back to the inlet of the On-line Sludge Storage tank; and the remaining effluent flows by gravity into a Secondary Clarifier tank.
3. one (1) 38,460 L capacity Secondary Clarifier tank, equipped with three (3) sloped wall hoppers and five (5) submersible pumps. A portion of the effluent is pumped to the inlet of the Off-line Sludge Storage Tank. The remaining effluent flows by gravity into an Intermediate Pump Tank.
4. One (1) 23,180 L capacity Intermediate Pump Tank, equipped with two (2) submersible pumps; effluent is pumped into a Post-Denitrification MBBR tank at a rate of 9.57 cu.m/hour;
5. Two (2) 35,250 L Post-Denitrification MBBR tanks arranged in series. The tanks are equipped with MBBR carrier media. An optical nitrate sensor is proposed to monitor the concentration of nitrate in the final effluent and trigger supplemental chemical carbon to the Post-Denitrification MBBR tank when required. Effluent flows by gravity into a Tertiary Polisher tank.
6. One (1) 22,470 L capacity Tertiary Polisher tank, equipped with MBBR carrier media, fine bubble diffusers, and a blower. Effluent flows by gravity into a Phosphorus Removal tank;
7. Two (2) 38,460 L Final Clarifier tanks arranged in series, providing a total volume of 76,920 L. Each tank is equipped with three (3) sloped wall hoppers and five (5) submersible pumps. A portion of the effluent is pumped to the Off-line Sludge Storage tanks. The remaining effluent flows by gravity into a Final Effluent Pump Tank;

Auxiliary Treatment System:

1. One (1) 22,470 L capacity Phosphorus Removal tank. equipped with fine bubble diffusers and a blower. Polyaluminum chloride(PAC) or similar coagulant is dosed on a flow-proportional basis and mixed with the effluent in the tank. Supplemental PAC or similar coagulant, is also dosed into the flow from the Flow Equalization tank. Effluent flows by gravity into a Final Clarifier tank;

Post-Secondary Treatment System:

1. Filtration and Pumping: One (1) 46,300 L capacity Final Effluent Pump Tank, equipped with two (2) submersible booster pumps, each rated at 3.63 cu.m/hour to discharge into a control building located on high ground to gravitate effluent into two (2) sand filtration units, each rated at 216 L/min followed by two (2) cartridge filters for final polishing;

Disinfection System:

1. The Effluent from the cartridge filters to gravitate into the two (2) UV disinfection system consisting of three (3) UV reactors, (Model Hallet 1000 W or equivalent unit) rated at 284 L/min.;

Final Effluent Disposal Facilities:

1. The effluent from the disinfection system to gravitate and finally disperse into the Grand River via a proximate dry ditch outlet complete with riprap slope protection;

Sludge Management System:

1. Hauled out by licensed hauler to approved location.

Final Effluent Flow Measurement and Sampling Point:

1. Located in the control room for measurement of plant effluent at the outlet of disinfection channel;
2. Located in the control room, the automatic composite sampler at outlet of UV disinfection system.

including all other mechanical system, electrical system, instrumentation and control system, piping, pumps, valves and appurtenances essential for the proper, safe and reliable operation of the Works in accordance with this Approval, in the context of process performance and general principles of wastewater engineering only;

all in accordance with the submitted supporting documents listed in **Schedule A**.

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. "BOD₅" (also known as TBOD₅) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;
3. "CBOD₅" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

4. "Commissioned" means the construction is complete and the system has been tested, inspected, and is ready for operation consistent with the design intent;
5. "Director" means a person appointed by the Minister pursuant to Section 5 of the EPA for the purposes of Part II.I of the EPA;
6. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
7. "*E. coli* " refers to coliform bacteria that possess the enzyme beta-glucuronidase and are capable of cleaving a fluorogenic or chromogenic substrate with the corresponding release of a fluorogen or chromogen, that produces fluorescence under long wavelength (366 nm) UV light, or color development, respectively. Enumeration methods include tube, membrane filter, or multi-well procedures. Depending on the method selected, incubation temperatures include 35.5 ± 0.5 °C or 44.5 ± 0.2 °C (to enumerate thermotolerant species). Depending on the procedure used, data are reported as either colony forming units (CFU) per 100 mL (for membrane filtration methods) or as most probable number (MPN) per 100 mL (for tube or multi-well methods);
8. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
9. "Grab Sample" means an individual sample of at least 1000 millilitres collected in an appropriate container at a randomly selected time over a period of time not exceeding 15 minutes;
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. "Maximum Daily Flow" means the largest volume of flow to be received for treatment during a one-day period for which the Works is designed to handle;
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. "Monthly Average Effluent Concentration" is the mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month, calculated and reported as per the methodology specified in Schedule D;
14. "OBC" means the Ontario Building Code, Ontario Regulation 163/24 (Building Code) as amended to January 1, 2025, made under the *Building Code Act*, 1992, S.O. 1992, c. 23;
15. "Owner" means Grand Valley RV Resort Ltd. and its successors and assignees;
16. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
17. "Proposed Works" means those portions of the Works included in the Approval that are under

construction or to be constructed;

18. "Works" means the approved sewage works, and includes Proposed 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 terms and 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. CHANGE OF OWNER AND OPERATING AGENCY

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 address of Owner;
 - b. change of Owner, including address of new 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. B.17* shall be included in the notification;
 - d. change of name of the 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.
2. The Owner shall notify the District Manager, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
 - a. change of address of the Operating Agency;
 - b. change of the Operating Agency, including address of the new Operating Agency.

3. In the event of any change in ownership of the Works, the Owner shall notify the succeeding owner in writing, of the existence of this Approval, and forward a copy of the notice to the District Manager.
4. The Owner shall ensure that all communications made pursuant to this condition refer to the number of this Approval.

3. CONSTRUCTION OF PROPOSED WORKS

1. All Proposed Works in this Approval shall be constructed and installed and must commence operation within **five (5) years** of issuance of this Approval, after which time the Approval ceases to apply in respect of any portions of the Works not in operation. In the event that the construction, installation and/or operation of any portion of the Proposed Works is anticipated to be delayed beyond the time period stipulated, the Owner shall submit to the Director an application to amend the Approval to extend this time period, at least six (6) months prior to the end of the period. The amendment application shall include the reason(s) for the delay and whether there is any design change(s).
2. Upon completion of construction of the Proposed Works, the Owner shall prepare and submit a written statement to the District Manager, certified by a Licensed Engineering Practitioner, that the Proposed Works is constructed in accordance with this Approval.
3. **One (1) week** prior to the commencement of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.
4. Within **one (1) year** of completion of construction of the Proposed Works, a set of record drawings of the Works shall be prepared or updated. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be readily accessible for reference at the Works.

4. DESIGN OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Sewage Treatment Plant in accordance with the following objectives:
 1. Final Effluent parameters design objectives listed in the table included in **Schedule B**.
 2. Final Effluent 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 discolouration on the receiving waters.
 3. Maximum Daily Influent Flow is within the design capacity of the Sewage Treatment Plant.

5. COMPLIANCE LIMITS

1. The Owner shall operate and maintain the Sewage Treatment Plant such that compliance limits for the Final Effluent parameters listed in the table included in **Schedule B** are met.
2. The Owner shall operate and maintain the Sewage Treatment Plant such that the Final Effluent is disinfected continuously throughout the servicing season.

6. 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 staffing and training, including training in all procedures and other requirements of this Approval and the OWRA and relevant regulations made under the OWRA, process controls and alarms and the use of process chemicals and other substances used in the Works.
2. The Owner shall prepare/update the operations manual for the Works within **six (6) months** of completion of construction of the Proposed Works, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for the Works under Normal Operating Conditions;
 - b. inspection programs, including frequency of inspection, for 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;
 - d. procedures for the inspection and calibration of monitoring equipment;
 - e. operating procedures for the Works to handle situations outside Normal Operating Conditions and emergency situations such as a structural, mechanical or electrical failure, or an unforeseen flow condition,
 - f. 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;
 - g. 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 retain for a minimum of **five (5) years** from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Approval.

7. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out a scheduled monitoring program of collecting samples at the required sampling points, at the frequency specified or higher, by means of the specified sample type and analyzed for each parameter listed in the tables under the monitoring program included in Schedule C and record all results, as follows:
 - a. all samples and measurements are to be taken at a time and in a location characteristic of the quality and quantity of the sewage stream over the time period being monitored.
 - b. definitions and preparation requirements for each sample type are included in the document referenced in Paragraph 2.b.
 - c. definitions for frequency:
 - i. Weekly means once every week;
 - ii. Monthly means once every month;
 - iii. Annually means once every year;
2. The measurement frequencies specified in **Schedule B** in respect to any parameter may, after **two (2) years** of monitoring in accordance with this condition, be modified by the Director in writing upon receiving written concurrence from the District Manager.
3. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following documents and all analysis shall be conducted by a laboratory accredited to the ISO/IEC:17025 standard or as directed by the District Manager:
 - 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 Version 2.0" (January 2016), PIBS 2724e02, as amended;
 - c. the publication "Standard Methods for the Examination of Water and Wastewater", as amended; and
 - d. for any parameters not mentioned in the documents referenced in Paragraphs 2.a, 2.b and 2.c,

the written approval of the District Manager shall be obtained prior to sampling.

4. The Owner shall monitor and record the flow rate and daily quantity using flow measuring devices or other methods of measurement as approved below calibrated to an accuracy within plus or minus 15 per cent (+/- 15%) of the actual flowrate.
5. 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.

8. REPORTING

1. The Owner shall report to the District Manager orally **as soon as possible** any non-compliance with the compliance limits specified in Condition 5 and in writing within **seven (7) days** of non-compliance.
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) made under the EPA, the Owner shall, within **fifteen (15) days** of the occurrence of any reportable spill as provided in Part X of the EPA and O. Reg. 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 performance reports on a calendar year basis and submit to the District Manager in an electronic format by **March 31** of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
 - a. a summary and interpretation of all Influent monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;
 - b. a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
 - c. a summary of all operating issues encountered and corrective actions taken;
 - d. a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
 - e. a summary of any effluent quality assurance or control measures undertaken;
 - f. a summary of the calibration and maintenance carried out on all monitoring equipment to

ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;

- g. a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions when any of the design objectives is not achieved more than 50% of the time in a year or there is an increasing trend in deterioration of Final Effluent quality; a description of efforts made and results achieved in meeting the Design Objectives Condition;
- h. a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- i. a summary of any complaints received and any steps taken to address the complaints;
- j. a summary of all other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;
- k. any other information the District Manager requires from time to time.

9. DECOMMISSIONING OF UN-USED WORKS

- 1. The Owner shall properly abandon any portion of unused existing 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 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.

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

- 1. Condition 1 regarding general provisions is imposed to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted.

2. Condition 2 regarding change of Owner and Operating Agency is included to ensure that the Ministry records are kept accurate and current with respect to ownership and Operating Agency of the 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.
3. Condition 3 regarding construction of Proposed Works is included to ensure that the Works are constructed in a timely manner so that standards applicable at the time of Approval of the Works are still applicable at the time of construction to ensure the ongoing protection of the environment, and that prior to the commencement of construction of the portion of the Works that are approved in principle only, the Director will have the opportunity to review detailed design drawings, specifications and an engineer's report containing detailed design calculations for that portion of the Works, to determine capability to comply with the Ministry's requirements stipulated in the terms and conditions of the Approval, and also 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.
4. Condition 6 regarding design objectives is imposed to establish non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.
5. Condition 7 regarding compliance limits is imposed to ensure that the Final Effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements.
6. Condition 6 regarding operation and maintenance 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. 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.
7. Condition 7 regarding monitoring and recording 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 compliance limits.
8. Condition 8 regarding reporting 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 this Approval.
9. Condition 9 is included to ensure that any components of un-used Works are properly decommissioned.

Schedule A

1. Application for Environmental Compliance Approval submitted by Katherine Rentsch, P.Eng., of C.F. Crozier & Associates Inc. received on January 6, 2026 for the proposed Sewage Works, including Environmental Study Report, design report and amendments dated August 14, 2026, final plans and specifications.
2. Revised Design Brief and Summary Assimilative Study Report submitted by Katherine Rentsch, P.Eng., of C.F. Crozier & Associates Inc. received on May 26, 2026 for the proposed Sewage Works, including process flow diagram (PFD) and reply to the reviewer's requested queries.

Schedule B

DESIGN OBJECTIVES

Concentration Objectives Table 1: upon completion of construction of all Proposed Works

Final Effluent Parameter	Averaging Calculator	Objective
CBOD5	Monthly Average Effluent Concentration	5 mg/L
Total Suspended Solids	Monthly Average Effluent Concentration	5 mg/L
Total Phosphorus	Monthly Average Effluent Concentration	0.10 mg/L
Total Ammonia Nitrogen	Monthly Average Effluent Concentration	2 mg/L
<i>E. coli</i>	Monthly Geometric Mean Density	* 100 CFU/100 mL
pH	Single Sample Result	6.5 - 8.5 inclusive

*If the MPN method is utilized for *E. coli* analysis the objective shall be 100 MPN/100 mL

COMPLIANCE LIMITS

Concentration Limits Table 2: upon completion of construction of all Proposed Works

Final Effluent Parameter	Averaging Calculator	Limit (maximum unless otherwise indicated)
CBOD5	Monthly Average Effluent Concentration	10 mg/L
Total Suspended Solids	Monthly Average Effluent Concentration	10 mg/L
Total Phosphorus	Monthly Average Effluent Concentration	0.20 mg/L
Total Ammonia Nitrogen	Monthly Average Effluent Concentration	2.8 mg/L
<i>E. coli</i>	Monthly Geometric Mean Density	*200 CFU/100 mL
pH	Single Sample Result	between 6.0 - 9.5 inclusive

*If the MPN method is utilized for *E. coli* analysis the limit shall be 200 MPN/100 mL

Schedule C
MONITORING AND RECORDING

Influent Monitoring Table-1

Sampling Location	Upstream of the Treatment System from the Equalization tank
Frequency	Monthly
Sample Type	24 hour composite
Parameters	BOD ₅ Total Suspended Solids (TSS) Total Kjeldahl Nitrogen (TKN) , TAN and pH (GRAB) Total Phosphorus (TP)

Final Effluent Monitoring Table-2

Sampling Location	On the UV disinfection Unit Sampling Valve
Frequency	Weekly
Sample Type	24 hour composite
Parameters	CBOD ₅ Total Suspended Solids (TSS) Total Phosphorus (TP) Total Ammonia Nitrogen (TAN) Nitrate Nitrogen. ----- Weekly, Grab Single Samples for E.Coli, pH and Temperature (ambient and wastewater)

Sludge/Biosolids Monitoring Table-3 from the holding tank/truck loading bay

Parameters	Sample Type	Minimum Frequency
Total Solids	Grab	Annually
Total Phosphorus	Grab	Annually
Total Ammonia Nitrogen	Grab	Annually
Nitrate as Nitrogen	Grab	Annually
Metal Scan: - Arsenic - Cadmium, - Cobalt - Chromium, - Copper - Lead, Mercury - Molybdenum, Nickel - Potassium, Selenium and Zinc.	Grab	Annually

Schedule D

**Methodology for Calculating and Reporting
Monthly Average Effluent Concentration and Monthly Geometric Mean Density**

1. Monthly Average Effluent Concentration

Step 1: Calculate the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month and proceed as follows depending on the result of the calculation:

- a. If the arithmetic mean does not exceed the compliance limit for the contaminant, then report and use this arithmetic mean as the Monthly Average Effluent Concentration for this parameter where applicable in this Approval;
- b. If the arithmetic mean exceeds the compliance limit for the contaminant and there was no Bypass Event during the calendar month, then report and use this arithmetic mean as the Monthly Average Effluent Concentration for this parameter where applicable in this Approval;

Step 2: None, there are adequate tankages, there is no by-pass event allowed for this seasonal facility.

2. Monthly Geometric Mean Density for E.Coli only.

Geometric mean is defined as the n^{th} root of the product of n numbers. In the context of calculating Monthly Geometric Mean Density for *E. coli*, the following formula shall be used:

$$\sqrt[n]{x_1 x_2 x_3 \cdots x_n}$$

in which, "n " is the number of samples collected during the calendar month; and

"x " is the value of each Single Sample Result.

For example, four weekly grab samples were collected and tested for *E. coli* during the calendar month. The *E. coli* densities in the Final Effluent were found below:

Sample Number	<i>E. coli</i> Densities* (CFU/100 mL)
1	10
2	100
3	300
4	50

The Geometric Mean Density for these data:

$$\sqrt[4]{10 \times 100 \times 300 \times 50} = 62$$

*If a particular result is zero (0), then a value of one (1) will be substituted into the calculation of the Monthly Geometric Mean Density. If the MPN method is utilized for *E. coli* analysis, values in the table shall be MPN/100 mL.

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land Tribunal and in accordance with Section 47 of the *Environmental Bill of Rights*, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("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.

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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

and

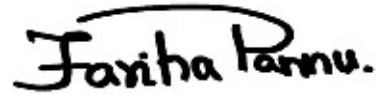
The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

* **Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca**

This instrument is subject to Section 38 of the *Environmental Bill of Rights*, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

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

DATED AT TORONTO this 22nd day of September, 2026



Fariha Pannu, P.Eng.

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

MN/

c: District Manager, MECP Guelph
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