

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 4764-C7LJ57
 Issue Date: January 28, 2022

Green Line Properties Limited
 Box 921, Town of Orillia,
 Ontario, L3V 6K8.

Site Location: Hammock Harbour RV Park
 4569 Concession Road 12
 Orillia, County of Simcoe
 Ontario, L3V 0M2.

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 a seasonal non-municipal sewage works, for the treatment of sanitary sewage to service Hammock Harbour RV Park on a land area of 24.6 ha. and disposal of effluent to surface water at the unnamed Creek within the Atherley-Sucker Creek Wetland Watershed via a Package Sewage Treatment Plant and Final Effluent disposal facilities as follows:

Classification of Sewage Treatment Plant: Tertiary

Details of Service Area:

- **Type of Occupancy:** Seasonal/Recreational
- **Type and Number of Units:** 259 sites including 225 PMUs, 29 overnight sites, 4 cabins/yurts and 1 office.

Design Capacity of the Sewage Treatment Plant: .

| Design Capacity with All Treatment Trains in Operation | Upon Completion of Construction of All Proposed Works |
|---|---|
| Rated Capacity: Annual Average Daily Influent Flow | 113 cu.m./day |
| Annual Maximum Daily Influent Flow | 210 m ³ /d |

Influent and Imported Sewage

| Receiving Location | Types |
|---------------------------|-----------------|
| In Collection System | Sanitary Sewage |
| At Sewage Treatment Plant | Sanitary Sewage |

Proposed Works:

Sanitary Sewage Collection and Pumping Stations (Proprietary NewTerra Designed Vacuflow Vacuum Sewer System-VSS)

- **Vacuum Collection Vault/ Pumping Station**

- A vacuum Collection Vault on a 12 feet X 22 feet Container Platform with a holding capacity of 4,000 Litres; to discharge into an Equalization Tank as follows:

Hammock Harbour Wastewater Treatment Plant (WWTP) using proprietary designed NewTerra / MicroClear Membrane Bioreactor treatment system comprising of the following:

Preliminary Treatment System:

- An in-ground precast concrete equalization tank (ET) with holding capacity of 95.6 m³ to buffer the peak flows and homogenize the wastewater strength loading, complete with a coarse bubble air diffusers to maintain an aerobic environment to reduce odours and to maintain suspension of solids and pump transfer of wastewater to biological treatment via two (2) screen feed pumps, each rated at 4.86 L/s via the fine screening as described below:
- Screening to remove large solids and fibrous material prior to entering the aerobic tank secondary biological treatment system.
- **Influent Flow Measurement and Sampling Point**
 - flow measurement device at the headworks pumps to discharge into the biological treatment system;
 - automatic composite sampler at the headworks pumping discharge line;

Secondary Treatment Systems

- Biological Treatment: Biological Treatment in an aerobic tank with a holding capacity of 104 m³ to accept screened influent wastewater and combine return activated sludge from the membrane tanks, complete with fine bubble diffusers to create an aerobic environment where the organics contributing to biological oxygen demand (BOD) and total ammonia nitrogen (TAN) for oxidization. The tank

contains one (1) waste activated sludge (WAS) pump to discharge solids to the sludge holding tank and two (2) membrane feed pumps to discharge to the membrane tanks as detailed later on:

- two (2) air blowers rated at 570 m³/h; complete with controls to maintain 2 to 3 mg/L dissolved oxygen continuously for process optimization.

Post-Secondary Treatment System: Membrane tanks

- Membrane Bioreactor (MBR) Filtration System: The UF membrane modules and the permeate extraction system separate liquid from solids. The membrane modules are continually air scoured to induce flow of mixed liquor over the membrane surface consisting of the following:
 - Two (2) tanks, each consisting of six (6) membrane modules with peak design flow rate 1.35 L/s with provision of six (6) additional modules for an additional 1.35 L/s. The permeate extraction pump is to discharge solids-free effluent from the tanks for UV disinfection;
 - Two (2) air scouring compressor blowers units (one stand-by), each rated at 210 m³/h;
 - One (1) common chemical backwash system consisting of a backwash tank equipped with one (1) sodium hypochlorite metering pump and one (1) citric acid metering pump;

Disinfection System

- Two (2) redundant channels equipped with UV disinfection system with a total Peak Hourly Flow Rate of 2.7 L/s. with provision of one (1) additional in-line UV disinfection system;

Sludge Management System:

- Sludge Holding Tank:
 - An in-ground precast concrete sludge holding tank to receive waste activated sludge (WAS) from the aerobic tank for holding and decanting, complete with coarse bubble air diffusers to maintain an aerobic environment to reduce odours. WAS will be allowed to settle and supernatant is decanted (pumped off) and returned to the equalization tank, consisting of the following:
 - one (1) aerobic sludge holding Tank with a capacity of 55 m³;
 - one (1) duty and one (1) stand-by blower, each rated at 95.4 m³/h.
 - one (1) decanter liquid pump rated at 17.5 L/s to discharge into the equalization tank;

Supplementary Treatment Systems:

- Phosphorus Removal/Phosphorus Reduction: one (1) 208 L capacity phosphorus removal chemical storage tank with one (1) metering pump rated at 0 -7.1 L/h;
- pH adjustment - Alkalinity Addition: A chemical dosing pump to supply caustic soda solution to maintain the pH in the proper range and replenish alkalinity in the aerobic tank as follows: one (1) 208 L capacity alkalinity addition chemical storage tank with one (1) metering pump rated at 0 -7.1 L/h;

Final Effluent Flow Measurement and Sampling Point

- flow measurement device at outlet of disinfection channel;
- automatic composite sampler at outlet of disinfection channel;

Final Effluent Disposal Facilities

- the MBR permeate pumps to discharge effluent via a forcemain approximately 55 m long pipe of 100 mm diameter, to extend to the creek monitoring station W2 and to terminate in a 100 mm x 50 mm Tee riser with a 50 mm diameter Tideflex Widebill Effluent Diffuser;

Existing (HUC approved) Works to be decommissioned:

- all (215) individual trailer leaching pits, one (1) large subsurface sewage disposal bed including distribution pipes etc. and the two (2) on-site septic tanks;

including all other mechanical system, electrical system, instrumentation and control system, stand-by power 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. "Annual Maximum Daily Influent Flow" means the maximum Influent collected in a single day during a calendar year;
2. "Annual Average Daily Influent Flow" means the Rated Capacity of the Daily Influent Flow (from the equalization tank) for which the Sewage Treatment Plant is designed to handle;
3. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;
4. "BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered

sample and includes carbonaceous and nitrogenous oxygen demands;

5. "CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;
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. "*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);
9. "EPA" means the *Environmental Protection Act* , R.S.O. 1990, c.E.19;
10. "Final Effluent" means effluent that is discharged to the environment through the approved effluent disposal facilities, that are required to meet the design objectives stipulated in the Approval for the Sewage Treatment Plant at the Final Effluent sampling point(s);
11. "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;
12. "Influent" means flows to the Sewage Treatment Plant from the collection system but excluding process return flows.
13. "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;
14. "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;
15. "Operating Agency" means the Owner, person or the entity that is authorized by the Owner for the management, operation, maintenance, or alteration of the Works in accordance with this Approval;
16. "Owner" means Green Line Properties Limited, including any successors and assignees;
17. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40;

18. "Preliminary Treatment System" means all facilities in the Sewage Treatment Plant associated with screening and grit removal;
19. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
20. "Rated Capacity" means the Annual Average Daily Influent Flow for which the Sewage Treatment Plant is designed to handle;
21. "Sewage Treatment Plant" means all the facilities related to sewage treatment within the sewage treatment plant site excluding the Final Effluent disposal facilities;
22. "Single Sample Result" means the test result of a parameter in the effluent discharged on any day, as measured by a probe, analyzer or in a composite or grab sample, as required;
23. "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.
4. The issuance of, and compliance with the conditions of this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage Works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

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* , as amended, shall be included in the notification;
 - 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* , as amended, 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 Operating Agency;
 - b. change of Operating Agency, including address of 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 environmental compliance approval number.

3. CONSTRUCTION OF PROPOSED WORKS / RECORD DRAWINGS

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:
 - a. Final Effluent parameters design objectives listed in the table(s) included in **Schedule B**.
 - b. 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.
 - c. Annual Average Daily Influent Flow is within the Design Capacity of the Sewage Treatment Plant.

5. 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 ensure that the Operating Agency fulfils the requirements under O. Reg. 129/04, as amended for the Works, including the classification of facilities, licensing of operators and operating standards.

6. 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 document referenced in Paragraph 2.b.
 - c. definitions for frequency:
 - i. Bi-weekly means once every two weeks;
 - ii. Monthly means once every month;
 - iii. Annually means once every year;
2. 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 requested.
3. 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 of the following:
- a. Influent flow to the Sewage Treatment Plant by continuous flow measuring devices and instrumentations/pumping rates.
 - b. Final Effluent discharged from the Sewage Treatment Plant by continuous flow measuring devices and instrumentations/pumping rates
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 monitoring activities required by this Approval.

7. REPORTING

1. The Owner shall report to the District Manager orally as soon as possible any non-compliance with the compliance limits, 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), 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 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 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 Influent, and Final Effluent 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;
- 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.

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/record drawings 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 4 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 5 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.
6. Condition 6 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.
7. Condition 7 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.

Schedule A

1. **Application for Environmental Compliance Approval** submitted by John Clark, P.Eng. of Skelton Brumwell and Associates (SBA) dated July 29, 2020, Design Report, final plans and specifications and received on March 19, 2021 for the proposed Works; including Surface Water Impact Study Report dated December 18, 2020.

Schedule B

Final Effluent Design Objectives

Concentration Objectives 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 | 0.33 mg/L |
| Total Ammonia Nitrogen (TAN) | Monthly Average Effluent Concentration | 0.1 mg/L (April 14 - October 15) |
| <i>E. coli</i> | Monthly Geometric Mean Density | *2 CFU/100 mL (04/15 to 10/15) |
| pH | Single Sample Result | 6.5 - 8.5 inclusive |
| Dissolved Oxygen | Single Sample Result | 4 mg/L |

*If the MPN method is utilized for *E. coli* analysis the objective shall be 2MPN/100 mL

Schedule C

Monitoring Program

Table 1: Influent - Sampling point- Equalization Tank

| Parameters | Sample Type | Minimum Frequency |
|-------------------------|------------------|-------------------|
| BOD5 | 8 hour composite | Monthly |
| Total Suspended Solids | 8 hour composite | Monthly |
| Total Phosphorus | 8 hour composite | Monthly |
| Total Kjeldahl Nitrogen | 8 hour composite | Monthly |

Table 2: Final Effluent - Sampling point-at the pump discharge header

| Parameters | Sample Type | Minimum Frequency (During 04/14 to 10/15) |
|-------------------------|------------------|--|
| CBOD5 | 8 hour composite | Monthly |
| Total Suspended Solids | 8 hour composite | Monthly |
| Total Phosphorus | 8 hour composite | Bi-weekly |
| Total Ammonia Nitrogen | 8 hour composite | Monthly |
| Total Kjeldahl Nitrogen | 8 hour composite | Monthly |
| Nitrate as Nitrogen | 8 hour composite | Monthly |
| Nitrite as Nitrogen | 8 hour composite | Monthly |
| <i>E. coli</i> | Grab | Monthly |
| pH* | Grab | Bi-Weekly |
| Temperature* | Grab | Bi-Weekly |
| Un-ionized Ammonia** | As Calculated | Bi-Weekly |

*pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

**The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

Table 3: Sludge/Biosolids – Sampling point 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 | Grab | Annually |
| - Arsenic | | |
| - Cadmium | | |
| - Cobalt | | |
| - Chromium | | |
| - Copper | | |
| - Lead | | |
| - Mercury | | |
| - Molybdenum | | |
| - Nickel | | |
| - Potassium | | |
| - Selenium | | |
| - Zinc | | |

Table 4: Surface Water - Sampling Point/Stations W2

| Parameters | Sample Type | Minimum Frequency (During April 14 to October 15) |
|-------------------------|------------------|--|
| CBOD5 | 8 hour composite | Monthly |
| Suspended Solids | 8 hour composite | Monthly |
| Total Phosphorus | 8 hour composite | Monthly |
| Total Ammonia Nitrogen | 8 hour composite | Monthly |
| Total Kjeldahl Nitrogen | 8 hour composite | Monthly |
| E. coli | Grab | Bi-Weekly |
| Temperature | Grab | Bi-Weekly |
| pH* | Grab | Bi-Weekly |
| Un-ionized Ammonia** | As Calculated | Bi-Weekly |

*pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

**The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review 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 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:

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

AND

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

AND

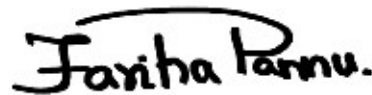
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

* Further information on the 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

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 28th day of January, 2022



Fariha Pannu, P.Eng.

Director

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

MN/

c: District Manager, MECP Barrie
John Clark, P.Eng. Skelton Brumwell