

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1976-CRXHWT
Issue Date: May 31, 2023

2566593 Ontario Inc.
23 Silver Spring Crescent
Uxbridge, Ontario
L9P 0K7

Site Location: 53 Bridgewater Road
Hamlet of Actinolite, Municipality of Tweed, County of
Hastings
K0K 3J0

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:

the establishment of Works for the treatment of sanitary sewage and subsurface disposal of treated effluent from a new twenty four (24) one-bedroom residential units apartment building at the above site location, rated at a Maximum Daily Flow of 13,200 litres per day (L/day), consisting of the following:

- one (1) one-compartment anaerobic digester septic tank, located north-west of the new apartment building, receiving raw sewage from the new apartment building, having a minimum anaerobic digester volume of 27,500 L, complete with two (2) insulated lids or aluminium access hatches, a Waterloo Biofilter InnerTube pipe and one (1) effluent filter (OBC approved) installed on the outlet pipe, discharging by gravity to a balancing tank/pump chamber;
- one (1) one-compartment flow equalization/balancing tank located north-west of the new apartment building, receiving effluent from the anaerobic digester septic tank, having a total minimum working capacity of 13,500 L, housing two (2) submersible effluent pumps, complete with two (2) insulated lids or aluminium access hatches, discharge piping, liquid level float switches, including a high liquid level audible and visual alarm system, discharging via one (1) 50 mm diameter forcemain to a Waterloo Biofilter treatment system;
- one (1) Waterloo Biofilter treatment system located north-west of the new apartment building, receiving effluent from the flow equalization/balancing tank, designed to provide treatment to a balanced over a 24 hour period daily design sanitary sewage flow of 13,200 L/day, consisting of one (1) one-compartment Waterloo Biofilter media tank having a minimum working capacity of 36,000 L and housing three (3) media baskets filled with a total of 30.3 m³ of proprietary Waterloo Biofilter synthetic foam medium (trickling filter), complete with five (5) charcoal vented and insulated lids, an air distribution system, a spray manifold

including downward facing helical distribution spray nozzles, an under-drainage system, one (1) submersible effluent pump recirculating 50% of effluent to the anaerobic digester septic tank and one (1) submersible effluent pump rated at a minimum 30 L/min when operating against a total dynamic head (TDH) of 4.0 m, discharging via one (1) 50 mm diameter forcemain delivering approximately thirty (30) cycles per day of an approximate volume of 430 L/cycle for a total effluent flow of 13,200 L/day to a Type A dispersal bed;

- one (1) raised 42.6 m by 23.8 m Type A dispersal bed located north-west of the new apartment building, receiving effluent via the 50 mm diameter forcemain and three (3) distribution boxes from the Waterloo Biofilter treatment system, designed for a daily design sanitary sewage flow of 13,200 L/day, having a top stone area of 469 m² (33 m by 14.2 m and a minimum 200 mm thick layer of washed clear stone meeting OBC specifications), an imported sand fill layer expanded contact base area of 1,014 m² (42.6 m by 23.8 m and a minimum 600 mm thick layer of imported acidic iron and alumina rich sand or an acidic iron and alumina rich sand and wood chip mixture with a percolation time of 6 min/cm to 10 min/cm and meeting OBC specifications) and eight (8) dispersal bed effluent distribution cells, each cell consisting of four (4) - 4 m long runs, spaced at 1.2 m centre to centre, for the total length of 16 m per cell and 128 m for the bed of 75 mm diameter perforated distribution piping installed in a minimum 200 mm thick washed clear stone layer covered with permeable geo-textile fabric/filter cloth, having a minimum separation distance of 600 mm between the bottom of the stone layer and the high groundwater table, rock or soil with a percolation rate (T) greater than 50 min/cm, the washed clear stone layer overlying a minimum 600 mm thick layer of imported acidic iron and alumina rich sand or an acidic iron and alumina rich sand and wood chip mixture with a percolation time of 6 min/cm to 10 min/cm, including a minimum 250 mm thick imported sand fill mantle extending 15 m beyond the outermost distribution pipes in any direction which effluent will move laterally in the soil away from the dispersal bed, all in accordance with the OBC requirements;
- all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned Works;

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 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 year.
2. "Approval" means this entire Approval document and any Schedules to it, including the application and Supporting Documentation;
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 Kingston District Office;
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 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. "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 2566593 Ontario Inc. and its successors and assignees;
15. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
16. "Qualified Person" means a person who (a) holds a licence, limited licence or temporary licence under the Professional Engineers Act, or (b) holds a certificate of registration under the Professional Geoscientists Act, 2000, and is a practising member, temporary member, or limited member of the Association of Professional Geoscientists of Ontario or (c) has a degree in environmental science with specialization in hydrology, aquatic ecology, limnology, biology, physical geography and/or water resource management, as appropriate, and has demonstrated knowledge and experience with soil science.
17. "Works" means the sewage works described in the Owner's applications, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval.

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. 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 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.B17 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 Informations Act*, R.S.O. 1990, c. C39 shall be included in the notification.
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.
3. The Owner shall ensure that all communications made pursuant to this condition refer to the number of this Approval.

4. CONSTRUCTION

1. The Owner shall ensure that the construction of the Works is supervised by 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. The Owner shall ensure that the Waterloo Biofilter treatment system is installed in accordance with the manufacturer's installation manual.
4. The Owner shall ensure that an imported soil that is required for construction of the subsurface disposal bed as per this Approval is tested and verified by the Qualified Person that it is acidic iron and alumina rich sand and for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.
5. The Owner shall ensure that the native soil in which the subsurface disposal bed is to be constructed as per this Approval is tested and verified by the Qualified Person that it is acidic iron and aluminium rich and the written confirmation is kept at the site.
6. Within six (6) months of the Works being Commissioned, the Owner shall prepare a statement, certified by 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.
7. Within six (6) months of the Works being Commissioned, 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. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

1. 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 at the sampling point, at the sampling frequency and using the sample type specified for each parameter listed in the Effluent Monitoring Table included in Schedule B.
3. Samples shall be collected at the sampling points, at the sampling frequency and using the sample type specified for each parameter listed in the Groundwater Monitoring Table included in Schedule B.
4. Prior to the startup of the Works, background groundwater quality must be established by collecting groundwater samples and having them analyzed for the parameters listed in the Groundwater

Monitoring Table included in Schedule B.

5. The Owner shall employ measurement devices to accurately measure quantity of effluent being discharged to the subsurface disposal bed, including but not limited to water/wastewater flow meters, event counters, running time clocks, or electronically controlled dosing, and shall record the daily volume of effluent being discharged to the subsurface disposal bed
6. The Owner shall ensure that the flow of treated effluent discharged into the subsurface disposal bed does not exceed 13,200 L/day.
7. 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 from time to time by more recently published editions;
 - b. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended; and
 - 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.
8. The measurement frequency specified in subsections 2 and 3 in respect of any parameter are minimum requirements which may, after 12 months of monitoring in accordance with this condition, be modified by the Director in writing from time to time.
9. 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.

6. EFFLUENT OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Works in accordance with the final effluent parameters design objectives listed in the table included in Schedule B.
2. For the purposes of subsection 1:
 - a. The concentrations of CBOD₅ and TSS named in Column 1 of Effluent Objectives Table listed in Schedule B, as measured at each monitoring event, should be compared to the corresponding concentration set out in Column 2 of Effluent Objectives Table listed in Schedule B.
 - b. The Annual Average Effluent Concentration of Total Nitrogen named in Column 1 of Effluent Objectives Table listed in Schedule B, should be compared to the corresponding concentration

set out in Column 2 of Effluent Objectives Table listed in Schedule B.

7. EFFLUENT LIMITS

1. The Owner shall design, construct, operate and maintain the Works such that the concentrations of the materials named as effluent parameters in the Effluent Limits Table No. 1 and Groundwater Quality Limits Tables No. 2 and Table No. 3 in Schedule B are not exceeded in the effluent from the Works and groundwater at the site:
2. For the purposes of determining compliance with and enforcing subsection (1) pursuant to Effluent Limits Table No. 1 - Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed:
 - a. The concentrations of CBOD₅ and TSS named in Column 1 of Effluent Limits Table No. 1 - Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed listed in Schedule B, as measured at each monitoring event, shall not exceed the corresponding concentration set out in Column 2 of Effluent Limits Table No. 1 - Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed listed in Schedule B.
 - b. The Annual Average Effluent Concentration of Total Nitrogen named in Column 1 of Effluent Limits Table No. 1 - Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed listed in Schedule B shall not exceed the corresponding maximum concentration set out in Column 2 of Effluent Limits Table No. 1 - Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed listed in Schedule B.
3. For the purposes of determining compliance with and enforcing subsection (1) pursuant to Groundwater Quality Limit Table No. 2 - Monitoring Well located near the downgradient property boundary and On-site Supply Well:
 - a. The concentration of Total Nitrogen named in Column 1 of Groundwater Quality Limit Table No. 2 - Monitoring Well located near the downgradient property boundary and On-site Supply Well listed in Schedule B, as measured at each monitoring event, shall not exceed the corresponding concentration set out in Column 2 of Groundwater Quality Limit Table No. 2 - Monitoring Well located near the downgradient property boundary and On-site Supply Well listed in Schedule B.
 - b. The Owner shall immediately verbally report to the District Manager any non-compliance with the compliance limits specified in subsection 3.
4. For the purposes of determining compliance with and enforcing subsection (1) pursuant to Groundwater Quality Limits Table No. 3 - Pizometer located to the north of the Type A dispersal bed:
 - a. The concentration of Total Phosphorus (TP) in Column 1 of Groundwater Quality Limit Table

No. 3 - Pizometer located to the north of the Type A dispersal bed listed in Schedule B, as measured at each monitoring event, shall not exceed the corresponding concentration set out in Column 2 of Groundwater Quality Limits Table No. 3 - Pizometer located to the north of the Type A dispersal bed.

- b. The Owner shall immediately verbally report to the District Manager any non-compliance with the compliance limits specified in subsection 4.

8. OPERATIONS 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 prepare an operations manual within six (6) months of the introduction of sewage to the Works, 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 all the Works; copies of maintenance contracts for any routine inspections & pump-outs should be included for all the tanks and treatment units;
 - 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, upon the construction, prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer for the treatment process/technology or its authorized agent. The maintenance agreement must be retained at the site and kept current for the

operational life of the Works.

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, 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 Works are located for break-out once every month.
8. In the event a break-out is observed from the 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.
9. The Owner shall employ for the overall operation of the Works a person who possesses the level of training and experience sufficient to allow safe and environmentally sound operation of the Works.
10. 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 operations and maintenance activities required by this Approval.

9. REPORTING

1. One week prior to the start up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
2. The Owner shall immediately verbally report to the District Manager any non-compliance with the compliance limits specified in subsections 3 and 4 of Condition 7.
3. The Owner shall report to the District Manager orally as soon as possible any non-compliance with

the compliance limits specified in subsection 2 of Condition 7, and in writing within seven (7) days of non-compliance.

4. 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.
5. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
6. The Owner shall prepare and submit a performance report, on an annual basis, within ninety (90) days following the end of each operational season to the District Manager. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a summary and description of efforts made and results achieved in meeting the effluent objectives of Condition 6;
 - b. a summary and interpretation of all monitoring data and a comparison to the effluent limits of Condition 7, including an overview of the success and adequacy of the Works, and a Contingency Plan in the event of non-compliance with the effluent limits;
 - c. a summary and interpretation of groundwater monitoring data including shallow groundwater flow direction, interpretation of analytical results and comparison with the compliance limits of Groundwater Quality Limit Tables No. and Table No. 3;
 - d. a tabulation of the daily volumes of effluent discharged to the subsurface disposal system and comparison to Maximum Daily Flow of 13,200 L/day as per this Approval and results achieved in not exceeding the Maximum Daily Flow discharged into the subsurface disposal system;
 - e. a review and assessment of the performance of the Works, including all treatment units and the subsurface disposal bed;
 - f. a description of any operating problems encountered and corrective actions taken at all Works located at the property;
 - g. a record of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property including but not limited to: records of maintenance inspections for the treatment system, records of septic tank effluent filters cleaning, records of septic tank pump-outs, records of sludge pump-outs

- accumulated from the treatment system, records of visual inspections of all disposal systems;
- h. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - i. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - j. a summary of all spill or abnormal discharge events;
 - k. any other information the District Manager requires from time to time;

10. 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.

11. RESPONSIBILITY AGREEMENT

1. The Owner shall enter into a duly signed Responsibility Agreement with the Municipality of Tweed prior to the construction of the Works approved herein in accordance with the Ministry Procedure D-5-2 entitled "Application of Municipal Responsibility for Communal Water and Sewage Services".
2. The Owner shall provide written confirmation that the Responsibility Agreement was entered into, including the effective date of the Responsibility Agreement, to the Director and the District Manager.

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 of 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, and may be operated and maintained such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented.
5. Condition 5 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 specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
6. Condition 6 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.
7. Condition 7 is imposed to ensure that the effluent discharged from the Works to the groundwater meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver.
8. Condition 8 is included to require that the Works be properly operated, maintained, and equipped such that the environment is protected. As well, the inclusion of an operations manual, maintenance agreement with the manufacturer for the treatment process/technology and a complete set of "as constructed" drawings 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 information 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 work.
9. Condition 9 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.
10. Condition 10 is included to ensure that any components of un-used Works are properly decommissioned.
11. Condition 11 is included to ensure that there is a Responsibility Agreement in place between the Owner and the Municipality prior to construction of the Works so that, in the event that the Owner is unable to continue

to provide sewage service, the Municipality may be able to assume ownership and operation of the Works.

Schedule A

1. Application for Environmental Compliance Approval submitted by Charles Mitz, M.Eng., Ph.D., P.Geo., Senior Project Manager of The Greer Galloway Group Inc., Consulting Engineers, dated January 26, 2022 and received on March 28, 2022.
2. The design report titled "Impact Assessment and Design Basis Environmental Compliance Approval (Sewage) for a 24-Unit Apartment Reconstruction 53 Bridgewater Road, Tweed Reference Number 9837-CCXLXQ" dated April 2023 and prepared by The Greer Galloway Group Inc., Consulting Engineers.
3. All other information and documentation provided by The Greer Galloway Group Inc., Consulting Engineers.

Schedule B

Effluent Monitoring Table

| | |
|--------------------------|--|
| Sampling Location | Effluent discharged from the Waterloo Biofilter treatment system upstream from subsurface disposal bed |
| Frequency | Monthly (once a month) |
| Sample Type | Grab |
| Parameters | CBOD ₅ Total Suspended Solids (TSS) Total Phosphorus (TP) Total Ammonia Nitrogen (TAN) Nitrate - Nitrogen Nitrite - Nitrogen Total Nitrogen |

Groundwater Monitoring Table No. 1

Monitoring Well located near the downgradient property boundary, On-site Supply Well and Pizometer located to the north of the Type A dispersal bed

| | |
|---------------------------|---|
| Sampling Locations | 1) Monitoring Well near the down-gradient property boundary; 2) On-site Supply Well; and 3) Piezometer located to the north of the Type A dispersal bed |
| Frequency | Semi-annually (spring and summer) |
| Sample Type | Grab |
| Parameters | Total Phosphorus (TP) Total Ammonia Nitrogen (TAN) Nitrate - Nitrogen Nitrite - Nitrogen Total Nitrogen |

Groundwater Monitoring Table No. 2

On-site Supply Well

| | |
|---------------------------|----------------------------------|
| Sampling Locations | On-site Supply Well |
| Frequency | Monthly (once a month) |
| Sample Type | Grab |
| Parameters | <i>E. coli</i> , Total Coliforms |

Effluent Objectives Table

Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed

| Effluent Parameter (Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed) | Effluent Concentration Objective (milligrams per litre unless otherwise indicated) |
|--|---|
| CBOD ₅ | < 10.0 |
| Total Suspended Solids (TSS) | < 10.0 |
| Total Nitrogen | < 14.1 |

Effluent Limits Table No. 1

Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed

| Effluent Parameter (Effluent discharged from the Waterloo Biofilter treatment system upstream from the subsurface disposal bed) | Effluent Concentration Limit (milligrams per litre unless otherwise indicated) |
|--|---|
| CBOD ₅ | 10.0 |
| Total Suspended Solids (TSS) | 10.0 |
| Total Nitrogen | 14.1 |

Groundwater Quality Limit Table No. 2

Monitoring Well located near the downgradient property boundary and On-site Supply Well

| Effluent Parameter (Monitoring Well located near the down-gradient property boundary and on-site Supply Well) | Effluent Concentration Limit (milligrams per litre unless otherwise indicated) |
|---|--|
| Total Nitrogen | 7.5 |

Groundwater Quality Limit Table No. 3

Piezometer located to the north of the Type A dispersal bed

| Effluent Parameter (Piezometer located to the north of the Type A dispersal bed) | Effluent Concentration Limit (milligrams per litre unless otherwise indicated) |
|--|--|
| Total Phosphorus (TP) | 1.0 |

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

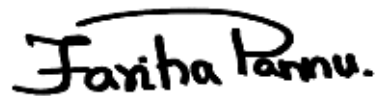
The Director appointed for the purposes of
Part II.1 of the *Environmental Protection Act*
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 31st day of May, 2023



Fariha Pannu, P.Eng.

Director

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

KC/

c: Area Manager, MECP Belleville Area Supervisor

c: District Manager, MECP Kingston District Office

Charles Mitz, M.Eng., Ph.D., P.Geo., Senior Project Manager, The Greer Galloway Group Inc., Consulting
Engineers