Ontario

Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 5454-CDAJ7M
Issue Date: July 11, 2022

Morriston Park Nursing Home Inc.
7363 Calfass Road,
Puslinch, Ontario
N0B 2J0

Site Location: Morriston Park Nursing Home
7363 Calfass Road, Lot 31, Concession 7
Township of Puslinch, County of Wellington

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:

Upgrades and modification to the existing Works serving **a 28 beds long term care home Facility** known as Morriston Park Nursing Home, with a maximum daily flow rate of **12,600 Litres per day**, located at 7363 Calfass Road, Lot 31, Concession 7, Township of Puslinch, County of Wellington, comprising;

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
Maximum Daily Flow	6,300 L/day	12,600 L/day

PROPOSED WORKS

Flow Equalization Tank (EQT)
One (1) flow equalization pump tank EQT, located north east of the existing Nursing Home, with an effective volume of 9,700 L and be equipped with duplex sewage pumps, each rated at 140 L/min at a TDH of 7.5 m, operated on a timer set to discharging to a Sludge Storage/Primary Clarification Tank SS/PC, through a 50 mm, 80 m long forcemain to the sludge storage and primary clarification tank approximately 530 Litres every hour (approximately 12,600 L/day);

Proposed MBBR System (Rated Capacity = 12,600 L/day)
Sludge Storage/Primary Clarifier Tank: One (1), two chambered sludge storage and primary clarification tank SS/PC, located east of the existing Nursing Home, having an effective volume of 28,300 L (sludge storage chamber: 19,300 L; primary clarification chamber: 9,000 L), the tanks are designed with a hydraulic retention time of 7.3 hours and 3.4 hours respectively, receiving flow from the equalization tank EQT as well as recirculated secondary and tertiary flow; anoxic conditions to be created in SS/PC for pre-anoxic denitrification of nitrified effluent (recirculated from the aerobic bioreactors) with Carbon Addition via primary sludge and injection through a metering pump, discharging into a MBBR wastewater treatment facility;

Moving Bed Bioreactor (MBBR) Bioreactor 1 and Bioreactor 2 (BR1 and BR2) and Secondary Clarifier SCL
two (2) proposed MBBR Bioreactors BR1 and BR2, connected in series, located downstream of Tank SS/PC, towards east of the Nursing Home, BR 1 having a working volume of 4,500 Litres and BR2 having a working volume of 4,400 Litres, designed with a minimum hydraulic retention time of 3.4 hours, containing specially designed plastic media with a surface area of 500 m2/m3, with oxygen supplied by two (2) side-channel air compressors, supplying oxygen at a minimum rate of 38.4 Nm^3/hour at 198 mbar, and distributing through fine bubble diffusers, complete with a DO sensor integrated into the PLC control panel, BR2 is complete with a recirculation pump, returning a portion of the process mixed liquor to Tank SS, and media retaining screens, and discharging by gravity in to the Secondary Clarifier SC;

Carbon Addition
a supplemental carbon dosing system comprising one (1) 400 Litres storage tank, one (1) containment tank, two (2) dosing pump and MicroC-2000 carbon supplement is provided to dose carbon to (a) Tank 2 inlet for pre-anoxic dentrification, and (b) to Tank 4 Anoxic Bioreactor for post-anoxic denitrification;

Secondary Clarifier Tank SC
one (1) concrete Secondary Clarifier, with an approximate working volume of 4,100 Litres and liquid surface area of 2.8 sq. m complete with two sludge return pumps each rated at 75 Litres per minute at a TDH of 4.5 m, receiving gravity flow from BR2, discharging supernatant to MBBR Post-Denitrification, complete with two (2) sloped wall hoppers and settled sludge removed from the bottom of the hopper is returned to the Sludge Storage tank SS;

Post Denitrification Anoxic MBBR Tank ABR (Tank 4)
one (1) MBBR Anoxic Bioreactor (approximate working volume of 1,900 Litres), containing specially designed plastic 600 Litres carrier media having a specific surface area of 500 m 2/m3, complete with supplemental carbon addition, as an energy source under low oxygen conditions one (1) mixing pump, coarse bubble diffusers and one dedicated mixing blower;

Tertiary Aerobic Bioreactor Chamber

one (1) MBBR aerobic Bioreactor (approximate working volume of 1,700 Litres), containing specially designed plastic 600 Litres carrier media having a specific surface area of 500 m^2/m^3, fine bubble diffusers rated at 5 Nm^3/hour and 1 dedicated mixing blower;

Tertiary Clarifier FCL

One (1) 1,800 Litres 1.8 sq m surface area concrete Tertiary Clarifier containing one (1) sloped wall hopper and one (1) sludge return pump rated 75 Litre per minute at a 4.5 m TDH, returning the sludge to the Sludge Storage Tank SS, discharging by gravity into the Effluent Pump Tank;

Effluent Pump Tank EPT

One (1) 5,700 Litres Effluent Pump Tank complete with two (2) access risers and lids, an audible/visual high level alarm with two (2) effluent each pump rated at 270 L / min at 8.5 m TDH to pump on a demand dose basis, each pumping through an magnetic effluent flow meter located in the control shed to dose 3,150 L/dose to each of the to the raised filter bed and retained existing absorption trench bed respectively;

Raised Filter Bed (Q = 6,300 Litres per day)

One fully raised filter bed, located south east of the existing Nursing Home, designed for the percolation rate of native soils T-time of 30 min/cm, constructed with two cells of distribution pipes, each having 8 Runs of 11.5 m each with a 100 mm diameter perforated pipes, installed in 100 m^2 layer of imported stone, overlying a layer of imported filter sand base area of 540 m^2 and sand fill area of 880 m^2, with a percolation time of 4 to 8 min/cm.

DECOMMISSIONING OF EXISTING SEWAGE WORKS

Decommissioning of the existing concrete pump tank;

Decommissioning of the existing two 9,000 L septic tanks;

EXISTING WORKS

Existing Absorption Trench Bed (Q=6,300 Litres per day)

One existing absorption trench bed with two cells, located west of the proposed dispersal bed, consisting of absorption trenches with an overall length of 960 m (32 lines of 30 m each), each containing imported stone and a perforated distribution pipe;

including all other mechanical system, electrical system, instrumentation and control system, standby 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. "Approval" means this entire Approval document and any Schedules to it, including the application and Supporting Documentation;

2. "BOD_5" (also known as $TBOD_5$) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

3. "$CBOD_5$" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

4. "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;

5. "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;

6. "District Manager" means the District Manager of the Guelph District Office;

7. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;

8. "Existing Works" means those portions of the Works included in the Approval that have been constructed previously;

9. “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;

10. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;

11. "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;

12. "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;

13. "Owner" means Morriston Park Nursing Home Inc., and its successors and assignees;

14. "OWRA" means the *Ontario Water Resources Act* , R.S.O. 1990, c. O.40, as amended;

15. "Rated Capacity" means Maximum Daily Flow for which the Works are approved to handle;

16. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;

17. "Supporting Documentation" means the documents listed in Schedule A of this Approval;

18. "Works" means the approved sewage works, and includes Proposed Works, and Existing Works.

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

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the 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 AUTHORITY

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 THE 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.

5. The Owner shall ensure that the treatment technologies are installed in accordance with the manufacturer's installation manual.

6. The Owner shall ensure that the Works are constructed such that minimum horizontal clearance

distances as specified in the OBC are satisfied.

7. The Owner shall ensure that an imported soil that is required for construction of any subsurface disposal bed as per this Approval is tested and verified by the Licensed Engineering Practitioner for the percolation time (T) prior to delivering to the site location and the written records are kept at the site.

8. Upon construction of the two (2) proposed monitoring wells (MW-101 & MW-102), in accordance with the Condition 6(1) of this Approval, the Owner shall prepare an amended to the scale drawing, outlining the monitoring well installation locations.

4. 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 B and 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. Monthly means once every month;

      ii. Quarterly means once every three months;

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 obtained prior to sampling.

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 MBBR Sewage Treatment Plant by continuous flow measuring devices and instrumentations/pumping rates;

    b. Final Effluent discharged from the MBBR 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.

5. The Owner shall employ measurement devices to accurately measure quantity of effluent being discharged to each individual subsurface disposal system, 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 system.

6. The Owner shall ensure that flow of treated effluent discharged into the Existing Absorption Trench does not exceed 6,300 L/day.

7. The Owner shall ensure that flow of treated effluent discharged into the Proposed Raised Filter Bed does not exceed 6,300 L/day.

8. Prior to the startup of the Works, background and baseline 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(s) B & C.**

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.

5. SPECIAL MONITORING CONDITION

1. Prior to the startup of the Works, the Owner shall install Two (2) monitoring wells,

    a. MW-101, downgradient of the proposed Raised Filter Bed; and

    b. MW-102, downgradient of the existing Absorption Trench, as close to the downgradient property

boundary as possible.

2. The Owner shall monitor quarterly groundwater elevation and groundwater quality monitoring in accordance with the **Schedule C** at the new downgradient monitoring wells installed pursuant to subsection (1), at existing upgradient monitoring well BH02-21, and at existing monitoring location BH3-21.

3. An annual summary monitoring report should be prepared by a qualified person and be submitted to the District Manager as an appendix to the Annual Performance Report to be prepared in accordance with Section 10(5) of this Approval. This report must include assessment of the groundwater monitoring data and a summary of effluent quality data for the period.

4. After 5 years of groundwater monitoring pursuant to subsection (1) to (3), the Owner shall submit a report to the District Manager with recommendations to continue, amend, reduce and/or cessation of the future groundwater monitoring at the site, as per the report findings.

6. DESIGN OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Proposed Works in accordance with the following objectives:

   a. Final Effluent parameters design objectives listed in the table(s) included in the Schedule B.

   b. Annual Average Daily Influent Flow is within the Rated Capacity of the Sewage Treatment Works.

2. For the purposes of subsection (1):

   a. The concentrations of parameters 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**.

7. COMPLIANCE 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 in **Schedule B** are not exceeded in the effluent from the Works:

2. For the purposes of determining compliance with and enforcing subsection (1):

   a. The average concentration of parameters named in Column 1 of Effluent Limits Table listed in **Schedule B** shall not exceed the corresponding maximum concentration set out in Column 2 of

Effluent Limits Table listed in **Schedule B** as per the following schedule;

i. Quarterly (4 months) moving average concentration, for the first two years commencing the date of Approval;

ii. Annual average concentration starting third year of the issuance of the Approval, provided no exceedance occured in the first two years as per the monitoring results of the condition 7(2)(a)(i) above.

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 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 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 all septic tanks are pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filters are cleaned out at minimum once a year or more often if required.

6. The Owner shall ensure that grass-cutting is maintained regularly over the subsurface disposal bed(s), and that adequate steps are taken to ensure that the area of the underground works is protected from vehicle traffic.

7. The Owner shall visually inspect the general area where sewage works are located for break-out once every month during the operating season.

8. In the event a break-out is observed from a subsurface disposal bed, the Owner shall do the following:

    a. sewage discharge to that subsurface disposal system shall be discontinued;

    b. the incident shall be **immediately** reported verbally to the Spills Action Centre (SAC) at (416) 325-3000 or 1-800-268-6060;

    c. submit a written report to the District Manager within **one (1) week** of the break-out;

    d. access to the break-out area shall be restricted until remedial actions are complete;

    e. during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to the environment; and

    f. sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.

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.

9. SPECIAL OPERATION CONDITION

1. Notwithstanding any condition of this Approval, the Owner shall cease to operate the Existing Works after Ninety (90) days of the date of this approval in the circumstance that all of the Proposed Works have not been constructed and are not made operational. In this circumstance, the Owner shall remove all sewage that has been collected in the Existing Works through a licensed hauler and shall record and maintain a log book with all records of the volumes of wastewater pumped from the Facility and the license information for the hauler removing sewage from the Existing Works.

2. Condition 9(1) shall cease to apply once all of the Proposed Works have been constructed and a letter is provided to the District Manager indicating that all of the Proposed Works have been constructed and operational.

10. 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 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.

3. 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.

4. The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

5. 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 7);

b. a summary and interpretation of all monitoring data and a comparison to the Effluent Limits (Condition 8) including an overview of the success and adequacy of the Works, and a Contingency Plan in the event of not in compliance with the Effluent Limits.

c. an appended report pursuant to Section 6 which includes a summary and interpretation groundwater monitoring data including shallow groundwater flow direction, interpretation of analytical results and assessment of whether Reasonable Use Criteria are being met at the property line.

d. a review and assessment of performance of sewage works, including all treatment units and disposal beds;

e. a description of any operating problems encountered and corrective actions taken at all sewage Works located at the property;

f. 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;

g. a summary of any effluent quality assurance or control measures undertaken in the reporting period;

h. a summary and interpretation of all daily flow data and results achieved in not exceeding the maximum daily sewage flow discharged into each one of the subsurface disposal system;

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;

11. DECOMMISSIONING OF UN-USED SEWAGE WORKS

1. The Owner shall properly abandon any portion of unused existing sewage Works, as directed below, and upon completion of decommissioning report in writing to the District Manager.

    a. any sewage pipes leading from building structures to unused sewage Works components shall be

disconnected and capped;

b. any unused septic tanks, holding tanks and pump chambers shall be completely emptied of its content by a licensed hauler and either be removed, crushed and backfilled, or be filled with granular material;

c. if the area of the existing leaching bed is going to be used for the purposes of construction of a replacement bed or other structure, all distribution pipes and surrounding material must be removed by a licensed hauler and disposed off site at an approved waste disposal site; otherwise the existing leaching bed may be abandoned in place after disconnecting, if there are no other plans to use the area for other purposes;

d.

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

1. Condition 1 is included to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.

2. Condition 2 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 and 5 are 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.

5. Condition 6 regarding design objectives is included to establish non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.

6. Condition 7 regarding compliance limits is included to ensure that the Final Effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements.

7. Condition 8 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.

8. Special Condition 9 regarding the operation of the Existing Works and construction of the Proposed Sewage Works is included to ensure that the Proposed Works are constructed and commence operation in a timely manner in accordance with an agreement between the Owner and the MECP Guelph District Office.

9. Condition 10 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.

10. Condition 11 is included to ensure that any components of un-used Works are properly decommissioned.

Schedule A

1. Environmental Compliance Approval Application, dated December 22, 2021 and received on January 18, 2022.

Schedule B

Influent Monitoring Table

Sampling Location	Sludge Storage Chamber
Frequency	Quarterly
Sample Type	Grab
Parameters	BOD5 Total Suspended Solids (TSS) Total Ammonia Nitrogen (TAN)

Effluent Objectives Table - Proposed Works

Effluent Parameter (tested on outlet from the final Pump Chamber)	**Concentration Objective** (milligrams per litre unless otherwise indicated)
CBOD5	25
Total Suspended Solids	30
Total Inorganic Nitrogen (TIN)	<6

Effluent Limits Table - Proposed Works

Effluent Parameter (tested on outlet from the final Pump Chamber)	**Concentration Limit** (milligrams per litre unless otherwise indicated)
CBOD5	30
Total Suspended Solids	35
Total Inorganic Nitrogen (TIN)	6

Effluent Monitoring Table - Proposed Works

Sampling Location	Final Pump Chamber
Frequency	Monthly
Sample Type	Grab
Parameters	$CBOD_5$ Total Suspended Solids (TSS) Total Kjeldahl Nitrogen (TKN) Total Inorganic Nitrogen (TIN) Total Ammonia Nitrogen (TAN) Nitrite Nitrate pH Flow (measured/recorded daily through magnetic flow meter downstream of the Final Pump Chamber)

Schedule C

Groundwater Monitoring Table - Existing Works/Absorption Trench and Proposed Works/Raised Filter Beds

Sampling Location	1. at two future downgradient monitoring wells located at the south side (MW-101 and MW-102)* 2. Existing upgradient monitoring well BH02-21 3. BH03-21
Frequency	Quarterly
Sample Type	Grab
Parameters	Total Inorganic Nitrogen Total Ammonia Nitrogen Nitrite Nitrate pH Total Phosphorus Water level

*Refer to Figure A, originally dated December 23, 2021 included in the Design Report, and subsequently amended on May 18, 2022

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 11th day of July, 2022

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

KH/
c: District Manager, MECP Guelph District.
David Morlock, P. Eng., FlowSpec Engineering Ltd.