

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 9598-BD8M59

Issue Date: September 6, 2019

Patrick John Zister
43 Hedgestone Cres
Kitchener, Ontario
N2E 3K4

Site Location: Lake Belwood Cottage
56 Third Line Road
Part of Lot 7, Concession 4
Belwood Lake
Township of Centre Wellington, 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:

the establishment, use and operation of the proposed sewage works for collection, treatment and subsurface disposal of domestic sewage, rated at 1,600 litres per day (L/d) to service a proposed three bedroom cottage for a recreational use, located at the above noted location, and consisting of the following:

Proposed Septic Tank

one (1) two-compartment septic tank (Infiltrator model IM-1060 or Equivalent Equipment) with a minimum capacity of 4,141 L, equipped with an OBC approved effluent filter on the outlet pipe and two (2) access risers fitted at the inlet and outlets of the tank to grade with watertight and lockable covers, discharging effluent via a 100 mm diameter gravity pipe to the proposed Ecoflo Biofilter treatment unit described below;

Proposed Ecoflo Biofilter Treatment Unit

one (1) in-ground Ecoflo Biofilter treatment unit (Premier Tech Aqua model STB-570PR) rated at a maximum of 1,755 L/day, equipped with a high level audible/visual alarm, low level shut-off and two (2) access risers at the inlet and outlets of the tank fitted to grade with watertight and lockable covers, discharging effluent via one (1) submersible time-dosed effluent pump (Liberty model 280 or Equivalent Equipment) rated at 180 L/min at a TDH of 4.5 m discharging a maximum of 1,600 L/day (24 dosing cycles at 0.4 min per cycle) to the proposed shallow buried trench disposal bed;

Proposed Shallow Buried Trench Disposal Bed a partially raised shallow buried

trench disposal bed consisting of three (3) runs of 25 millimetre diameter pressurized piping with 3 mm orifices spaced equally along the piping within Infiltrator model 24 Low Profile chambers, each 15.9 metres long spaced 2 m apart from the centres, located within imported fill covering an area of 165 m², as shown on the related drawings;

Existing Septic Tank

one (1) septic tank to be decommissioned in accordance with Condition 7; and

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

all in accordance with Supporting Documentation submitted to the Ministry as listed in the **Schedule A** in this Approval.

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

" *Approval* " means this entire document and any schedules attached to it, and the application;

" *CBOD₅* " means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

" *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;

" *District Manager* " means the District Manager of the Guelph District Office of the Ministry;

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

" *Equivalent Equipment* " means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;

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

" *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;

"OBC" means the *Ontario Building Code*;

"Owner" means Patrick John Zister, and includes their successors and assignees;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c.O40, as amended;

"Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act.

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

"Works" means the sewage works described in the Owner's application and 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

2. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
3. Except as otherwise provided by these conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with the description given in this Approval, and the application for approval of the Works.
4. Where there is a conflict between a provision of any document in the schedule referred to in this Approval and the conditions of this Approval, the Conditions in this Approval shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.
5. Where there is a conflict between the documents listed in the Schedule submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
6. The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the

remainder of this Approval shall not be affected thereby.

7.

EXPIRY OF APPROVAL

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

9.

CHANGE OF OWNER

10. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

- a. change of Owner;
- b. change of address of the Owner;
- c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B17 shall be included in the notification to the District Manager;
- d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C 39 shall be included in the notification to the District Manager;

11. 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.

12. Notwithstanding any other requirements in this Approval, upon transfer of the ownership or assumption of the Works to a municipality if applicable, any reference to the District Manager shall be replaced with the Water Supervisor.

13. CONSTRUCTION

14. The Owner shall ensure that the construction of the Works is supervised by a Licensed Installer or a Professional Engineer.

15. The Owner shall ensure that the Works are constructed such that minimum

horizontal clearance distances as specified in the OBC are satisfied.

16. Upon construction of the Works, the Owner shall prepare a statement, certified by a Licensed Installer or a Professional Engineer that the Works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry staff and staff of the local municipality.

17. Upon construction of the Works, as-built drawing(s) showing the works “as constructed” shall be prepared by the Licensed Installer or a Professional Engineer. The drawing(s) shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

18. OPERATIONS, MAINTENANCE, MONITORING AND RECORDING

19. The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained.

20. The Owner shall sign a Service and Maintenance Agreement with the manufacturer or approved agent of the Ecoflo Biofilter treatment system. The maintenance agreement must be retained at the site for as long as the Works are in operation, kept current and made available for inspection by the Ministry staff.

21. The Owner shall receive from the manufacturer or distributor of the Ecoflo Biofilter printed literature that describes the unit in detail and provides complete instructions regarding the operation, servicing, and maintenance requirements of the unit and its related components necessary to ensure the continued proper operation in accordance with the original design and specifications.

22. The Owner shall test the pressurized distribution system prior to start-up and every 36 months after start-up to ensure that a minimum 600 mm pressure head is available when measured at the most distant point from the pump.

23. The Owner shall ensure that the treatment system is at minimum inspected annually by the Ecoflo Biofilter authorized personnel, and maintained according to the manufacturer's recommendations including minimal yearly effluent sampling for CBOD₅ and Total Suspended Solids to ensure that it meets design objectives of 10 mg/l for both CBOD₅ and Total Suspended Solids in a grab effluent sample before discharge to the subsurface disposal bed.

24. The Owner shall ensure that the septic tank(s) is pumped out every 3-5 years or when the tank is 1/3 full of solids and the effluent filter(s) is cleaned out at minimum once a year (or more often if required).

25. 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.

26. The Owner shall visually inspect the general area where sewage works are located for breakout once every month during the operating season. In the event a breakout is observed from the subsurface disposal bed(s), the Owner shall ensure that the sewage discharge to the bed(s) is discontinued and the incident immediately reported verbally to the District Manager, followed by a written report within seven (7) days. The Owner shall ensure that during the time remedial actions are taking place the sewage generated at the site shall not be allowed to discharge to a surface water body or to the environment, and safely collected and disposed of through a licensed waste hauler to an approved waste disposal site.

27. The Owner shall maintain a logbook to record the results of Operation and Maintenance activities specified in the above subclauses, and shall keep the logbook at the site and make it available for inspection by the Ministry staff.

28. 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.

29. **REPORTING**

30. 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 of the Works.

31. **DECOMMISSIONING OF UN-USED SEWAGE WORKS**

32. 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; and
- c. if the area of the existing leaching bed is going to be used for the purposes of construction of a replacement bed or other structure, all distribution pipes and surrounding material must be removed by a licensed hauler and disposed off site at an approved waste disposal site; otherwise the existing leaching bed may be

abandoned in place after disconnecting, if there are no other plans to use the area for other purposes.

Schedule A

1. Application for Environmental Compliance Approval submitted by Patrick John Zister received at the Ministry on April 23, 2019 for the proposed Municipal and Private Sewage Works, including design report, final plans and specifications.

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

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

2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included to ensure that the Works are constructed, 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 require that the Works be properly operated, maintained, and equipped such that the environment is protected.

6. Condition 6 is included to ensure that the Ministry records are complete.

7. Condition 7 is included to ensure that any components of un-used Works are properly decommissioned.

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
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*** 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 www.ebr.gov.on.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 6th day of September,
2019

Fariha Pannu, P.Eng.

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

NZ/

c: District Manager, MECP Guelph

David Morlock, FlowSpec Engineering Ltd.

Matt Amy, Property Superintendent, Grand River Conservation Authority

Derek Strub, Superintendent, Belwood Lake Conservation Area

Building Department, Township of Centre Wellington