

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 8960-BD8QMD
Issue Date: August 21, 2019

Blue Spring Trout Farms Ltd.
133241 Allen Park Rd
Rural Route, No. 1
Hanover, Ontario
N4N 3B8

Site Location: Blue Spring Trout Farms
213 Blue Spring Road
Lot 56, Concession 2 S.D.E.
Municipality of West Grey, County of Grey, Ontario

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:

sewage works for the collection, transmission, treatment and disposal of a maximum of approximately 1,660 litres per minute of process wastewater from an aquaculture facility, located at 213 Blue Spring Road, in the Municipality of West Grey, consisting of the following:

- two (2) settling areas incorporated into a raceway system, each settling area measuring 11.58 metres long by 2.59 metres wide, discharging the overflow water into a stream that flows into Camp Creek;
- one (1) sludge holding tank, 4 metres in diameter with a depth of 1.2 metres; and
- all other valves and appurtenances essential for the proper operation of the aforementioned sewage works.

All in accordance with the supporting documents set out in Schedule "A" attached to this Approval.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "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;

3. "District Manager" means the District Manager of the Owen Sound District Office.
4. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
5. "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;
6. "Owner" means Blue Spring Trout Farms Ltd., and its successors and assignees;
7. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
8. "Single Sample Concentration" means the concentration of a parameter in the effluent discharged on any day, as measured by a probe, analyzer or in a composite or grab sample, as required;
9. "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

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 conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. 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.
3. 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.
4. 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.
5. 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.

2. 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 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; and
 - 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. C39 shall be included in the notification to the District Manager.
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. CHANGES IN PROCESSES OR PROCESS MATERIALS

1. The Owner shall give written notice to the District Manager of any plans to change the processes or process materials in the Owner's enterprise serviced by the Works where the change may significantly alter the quantity or quality of the influent to or effluent from the Works, and no such change(s) shall be made unless with the written concurrence or approval of the District Manager.

4. OPERATION MANUAL

1. The Owner shall prepare an operations manual within six (6) months of issuance of the Approval, that includes, but not necessarily limited to, the following information:
 - a. operating procedures for routine operation of the Works;
 - b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - d. contingency plans and procedures for dealing with potential spills and any other abnormal situations, including notification of the District Manager; and

- e. procedures for receiving, responding and recording public complaints, including recording any followup actions taken.
2. The Owner shall maintain the operations manual current and retain a copy at the location of the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

5. DESIGN OBJECTIVES

1. The Owner shall design and undertake everything practicable to operate the Works in accordance with the following objectives:
 - a. Final effluent parameters design objectives listed in Final Effluent Objectives Table (Table 1) in **Schedule B**.
 - b. Final effluent is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.

6. 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 Final Effluent Limits Table (Table 2) in **Schedule B** are met.
2. For the purposes of determining compliance with and enforcing subsection (1), the Single Sample Concentration of a parameter named in Column 1 shall not exceed the corresponding maximum concentration set out in Column 2 of Effluent Limits Table (Table 2) listed in **Schedule B**.

7. MONITORING AND RECORDING

1. The Owner shall, upon commencement of operation of the Works, carry out a scheduled monitoring program of collecting samples at the required sampling points, at the frequency specified or higher, by means of the specified sample type and analyzed for each parameter listed in the tables under the monitoring program included in **Schedule B** 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. Samples shall be collected and analyzed at the sampling points, sampling frequencies and using the sample type specified for each parameter listed in Table 3 - Background and Effluent Monitoring of **Schedule B**.
 - c. definitions and preparation requirements for each sample type are included in document referenced

in Paragraph 2.a.

d. definitions for frequency:

i. Monthly means once every month.

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 publication "Protocol for the Sampling and Analysis of Industrial/ Municipal Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended from time to time by more recently published editions; and
 - b. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions.
3. The owner shall record the volume of flow each week at the sampling points identified in subsection (2).
4. The measurement frequencies specified in subsection 1.b in respect to any parameter are minimum requirements which may, after two (2) years of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.
5. The Owner shall keep, and available for inspection by a provincial officer on request, a log book of operations of the works. This book shall contain, but not be limited to the following:
 - a. dates of cleaning the rearing/raceway tanks;
 - b. operational problems and corrective measures taken by the operating authority that had a bearing on effluent quality; and
 - c. sludge volumes generated and a description of the methods used for spreading or disposal of the accumulated sludge.
6. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

8. SLUDGE MANAGEMENT

1. Solid waste materials accumulating in the rearing/raceway tank(s) shall be periodically removed and disposed. This material may be applied periodically on the site by the owner in accordance with the following:
 - a. each application shall not exceed 1.3 centimetre or 120 cubic metres per hectare;

- b. subsequent applications shall not proceed until the preceding application has dried;
 - c. no application during rainfall, snowfall or on frozen or snow-covered ground; and
 - d. application must be undertaken in such a manner to ensure compliance to the minimum separation distance requirements outlined in Tables 4 and 5 in **Schedule C**.
2. In the event that inadequate sludge storage capacity is available, additional capacity must be provided by the owner or the excess sludge must be transported off-site for disposal through an approved waste management system.
 3. The Owner may use other reasonable, practicable alternatives not described in subsections (1) and (2), but is presented in writing and found to be acceptable by the District Manager.

9. REPORTING

1. The Owner shall report to the District Manager or designate, any exceedance of any parameter specified in Condition 6 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedance.
2. In addition to the obligations under Part X of the *Environmental Protection Act*, the Owner shall, within ten (10) working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.
3. The Owner shall prepare and submit a performance report to the District Manager on an annual basis by March 31 of each calendar year. The reports shall contain, but shall not be limited to, the following information:
 - a. a summary of weight or numbers of fish for each species handled during the period reported upon. In addition, the amount of fish feed used during the period and during peak months shall be reported;
 - b. a summary and interpretation of the water quality monitoring results including source water and a discussion of the results of the investigations for each reported exceedance related to Condition 6. A statement shall also be included in this section to indicate the measures, including further treatment facility if necessary, the operating authority proposes to take to prevent any future exceedance of the compliance limits, if applicable. A schedule of implementation shall also be reported;
 - c. a summary of any weather information recorded during periods of heavy rainfall and snow melt. A description of any correlation between effluent suspended solids or other

- characteristic and any recorded weather condition shall also be reported;
- d. assessment of the effectiveness of cleaning and maintenance operations to improve or maintain the desirable effluent quality;
 - e. sludge volume generated and a description of the methods used during the year for spreading or disposal of the accumulated sludge;
 - f. operational problems and corrective measures taken by the operating authority that had a bearing on effluent quality;
 - g. any other operational aspects relating to waste quality or quantity (such as type and quantity of feed on a monthly basis; chemicals used for algae and disease control, etc.); and
 - h. a copy of the log referred to in Condition 7 shall be submitted as an appendix to the annual report each year.
4. After two (2) reports been submitted to the District Manager, the reporting programs under this section may be altered on the written authorization of the District Manager.

Schedule A

1. Application for Environmental Compliance Approval dated December 11, 2018 and received on November 28, 2018 from James David Taylor, President, Blue Spring Trout Farms Ltd., for the proposed sewage works serving an aquaculture facility, including design brief, final plans and specifications.

Schedule B

Table 1 - Final Effluent Objectives

Effluent Parameters	Single Sample Concentration Objectives (milligrams per litre unless otherwise indicated)
<i>Column 1</i>	<i>Column 2</i>
Total Suspended Solids	background concentration as measured on a given day in the source water plus 5.0
Total Phosphorus	background concentration as measured on a given day in the source water plus 0.05

Table 2 - Final Effluent Limits

Effluent Parameters	Single Sample Concentration Limits (milligrams per litre unless otherwise indicated)
<i>Column 1</i>	<i>Column 2</i>
Total Suspended Solids	background concentration as measured on a given day in the source water plus 10.0
Total Phosphorus	background concentration as measured on a given day in the source water plus 0.10

Table 3 - Background and Effluent Monitoring

Sampling Locations	(1) Source Water at the wells (2) Final Effluent from the discharge channel, prior to discharging into Camp Creek
Sampling Frequency	Monthly
Sampling Type	Grab
Sampling Parameters	Total Suspended Solids and Total Phosphorus

Schedule C

Table 4 - Separation Distances

Feature	Separation Distance (metres)
Water Table	0.9
Bedrock	1.5
Drilled Wells more than 15 metres deep	15
All wells, including dug wells	90
Individual Residences	90
Residential Areas	450

Table 5 - Separation Distances from Watercourses

Maximum Slope	Soil Permeability	Separation Distance (in metres)
0 to 3%	rapid to moderately rapid	60
	moderate to slow	120
3 to 6%	rapid to moderately rapid	120
	moderate to slow	240
6 to 9%	rapid to moderately rapid	180
	moderate to slow	Not Permitted
greater than 9%	all permeabilities	Not Permitted

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 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.
3. Condition 3 is included to ensure that the works is operated in accordance with the information submitted by the owner relating to the process and materials which are served by the Works, and to ensure that any contemplated changes in them which could potentially affect the characteristics of effluent from the Works will be properly reviewed and approved.
4. Condition 4 is included to ensure that a comprehensive operations manual 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 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 work.
5. Condition 5 regarding design objectives is imposed to establish non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs
6. Condition 6 is imposed to ensure that the effluent discharged from the Works to the Camp Creek meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
7. Condition 7 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 effluent limits specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
8. Condition 8 is included sludge generated from the Works is managed and disposed or properly at the site, to prevent deterioration, loss, injury or damage to any person, property or the natural environment.
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.

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

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

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

AND

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

AND

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

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at 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 21st day of August, 2019



Youssouf Kalogo, P.Eng.

Director

appointed for the purposes of Part II.1 of the

NH/

c: District Manager, MECP Owen Sound District Office
Daniel Stechey, Canadian Aquaculture Systems Inc.