

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 4327-BQMP82
Issue Date: October 14, 2020

Red Eagle Trailer Park Inc.
289 Wollaston Lake Road, Coe Hill
Wollaston, Ontario
K0L 1P0

Site Location: Red Eagle Trailer Park
289 Wollaston Lake Road
Township of Wollaston
County of Hastings

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:

existing and proposed subsurface sewage disposal works for the collection, transmission, treatment and disposal of domestic sewage at a Seasonal Occupancy Campsite operating from May 1 to October 31 of any calendar year, with a total property wide daily sanitary sewage flow of 43,550 litres per day, consisting of the following:

Proposed Works

Centralized Sewage Works - daily sanitary flow 22,600 litres per day

a centralized sewage works is proposed to augment the existing sewage works at the site as follows:

Septic Tank A

- one (1) 23,000 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting domestic wastewater from one hundred and thirteen (113) trailer sites and discharging effluent to dosing tank A (described below) by gravity;

Septic Tank B

- one (1) 23,000 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting domestic wastewater from one hundred and thirteen (113) trailer sites and

discharging effluent to dosing tank B (described below) by gravity;

Dosing Tank A

- one (1) 4,500 litres capacity single compartment ***pump chamber*** equipped with high level alarm system, and duplex controlled two (2) submersible pumps, pumping the effluent from septic tank A to the central dosing tank (described below);

Dosing Tank B

- one (1) 4,500 litres capacity single compartment ***pump chamber*** equipped with high level alarm system, and duplex controlled two (2) submersible pumps, pumping the effluent from septic tank B to the central dosing tank (described below);

Central Dosing Tank

- one (1) 23,000 litres capacity single compartment ***pump chamber*** equipped with high level alarm system, and duplex controlled two (2) submersible pumps, pumping the effluent from septic tanks A and B to the proposed tertiary treatment units (described below);

Tertiary Treatment Units

- ten (10) ***Ecoflo Biofilter treatment unit*** (Model ST-650P or Equivalent Equipment), each having a treatment rated capacity of 2,500 litres per day, installed directly on an absorption system (described below) beneath the treatment units; and

Absorption System

- one (1) in ground type A bed consisting of a stone layer area of 452 square metres, underneath the open bottom Ecoflo Biofilter treatment units (described above) consisting of a layer of stone with a minimum 200 millimetre deep x 23.16 metres wide x 24.38 metres long with the washed septic stone layer protected with a permeable geo-textile fabric, overlying a sand area of 1,130 square metres consisting of a layer of sand with a minimum thickness of 600 millimetres - 30.48 m wide x 37.18 m long - below the stone layer, and a percolation rate of 6 to 10 minutes per centimetre and not more than 5% fines passing through a 0.074 mm (No. 200) sieve, extending a minimum of 15 metres beyond the outermost Ecoflo Biofilter units in the direction of flow as shown on the drawings.

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

Existing Works

4-bedroom Residence – daily sanitary flow 2,000 litres per day

Septic Tank

- one (1) existing 4,500 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from the existing 4-bedroom dwelling and discharging effluent to the existing leaching bed by gravity.

Subsurface Sewage Disposal System

- one (1) existing **leaching bed** comprising 90 metres of 100 millimetre perforated distribution piping.

Store, 1-bedroom Cabin and 3-bedroom Cabin – daily sanitary flow 2,500 litres per day

Septic Tank

- one (1) existing 4,500 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from the existing Store, 1-bedroom dwelling & 3-bedroom dwelling and discharging effluent to a proposed leaching bed via a lift station.

Lift Station

- one (1) proposed 450 litres capacity one compartment lift station

Subsurface Sewage Disposal System

- one (1) proposed **leaching bed** comprising 90 metres of 100 millimetre perforated distribution piping.

Laundromat and Comfort Station (OBC Permit 2016-064) – daily sanitary flow 1,500 litres per day

Laundromat

Septic Tank

- one (1) existing 2,955 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from the existing laundromat and discharging effluent to a existing leaching bed by gravity.

Subsurface Sewage Disposal System

- one (1) existing **leaching bed** comprising 107 metres of 100 millimetre perforated distribution

pipings.

Comfort Station – daily sanitary flow 1,800 litres per day

Septic Tank

- one (1) existing 3,400 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from the existing comfort station and discharging effluent to a proposed leaching bed via a dosing station.

Dosing Station

- one (1) existing 450 litres capacity one compartment dosing station, receiving wastewater from the existing septic tank and discharging to the existing leaching bed.

Subsurface Sewage Disposal System

- one (1) existing **leaching bed** constructed within a 200 square metres contact area constructed in filter media within the native soil.

Dumping Station (OBC Permit Ban 72-80) – daily sanitary flow 4,800 litres per day

Splash Pad

- an existing concrete splash pad connected to the septic tank described below;

Pumping Stations

- four (4) existing **pumping stations** collecting and pumping domestic sewage from one hundred and twenty-four (124) trailer sites to the existing septic tank described below;

Septic Tank

- one (1) existing 4,500 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting domestic sewage from the splash pad and the four (4) pumping stations described above and discharging by gravity to the existing leaching bed; and

Subsurface Sewage Disposal System

- one (1) existing 120 metres long **leaching bed** .

Pines Comfort Station (OBC Permit Ban 160-81) – daily sanitary flow 2,750 litres per day

Septic Tank

- one (1) existing 4,500 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting domestic sewage from the comfort station and twenty-eight (28) trailer sites and discharging by gravity to the existing leaching bed; and

Subsurface Sewage Disposal System

- one (1) existing 120 metres long **leaching bed** .

Deer River Cul-de-sac (OBC Permit M-143-91) – daily sanitary flow 1,800 litres per day

Septic Tank

- one (1) existing 9,000 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from eighteen (18) trailer sites and discharging effluent to the existing leaching bed described below by gravity.

Subsurface Sewage Disposal System

- one (1) existing 40 square metres **filter bed** . comprising of seven (7) runs of 9.1 metres long distribution piping.

Pavilion Sewage Works (OBC Permit 015-31600) – daily sanitary flow 3,800 litres per day

Septic Tank

- one (1) existing 8,365 litres capacity two-compartment **septic tank** fitted with an effluent filter on the outlet, collecting wastewater from thirty-eight (38) trailer sites and discharging effluent to the existing leaching bed described below via an effluent lift station.

Effluent Lift Station

- one (1) existing 450 litres capacity one compartment effluent lift station, collecting and pumping domestic wastewater from the existing septic tank to the existing leaching bed.

Subsurface Sewage Disposal System

- two (2) existing **filter bed** each 28 square metres constructed with six (6) runs of 20 metres long distribution piping.

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

all in accordance with the submitted supporting documents in Schedule A.

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

1. "Approval" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed herein;
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 appropriate local district office of the Ministry where the Works are geographically located;
4. "EPA" means the *Environmental Protection Act*, R.S.O 1990, c.E.19, as amended;
5. "Licensed Installer" means a person who is registered under the OBC to construct, install, repair, service, clean or empty on-site sewage systems;
6. "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;
7. "OBC" means the Ontario Building Code;
8. "Owner" means Red Eagle Trailer Park Inc., and includes its successors and assignees;
9. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
10. "Professional Engineer" means a person entitled to practise as a Professional Engineer in the Province of Ontario under a licence issued under the Professional Engineers Act; and
11. "Works" means the sewage works described in 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 CONDITION

- (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) Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.

- (3) Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the Application
- (4) Where there is a conflict between the documents listed in the Schedule A, 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 terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this environmental compliance 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. EXPIRY OF APPROVAL

- (1) The approval issued by this Approval will cease to apply to those parts of the Proposed 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 or operating authority;
 - (b) change of Owner or operating authority or both, including address of new Owner or operating authority, or both;
 - (c) change of partners where the Owner or operating authority 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* ; and
 - (d) change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the “Initial Return” or “Notice of Change” filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , shall be included in the notification to the District Manager.
- (2) In the event of any change in ownership of the Works, 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.
- (3) The Owner shall ensure that all communications made pursuant to this condition refer to the

number at the top of this environmental compliance approval.

4. CONSTRUCTION

- (1) The Owner shall ensure that the construction of the Works is supervised by a Professional Engineer.
- (2) Upon construction of the Works, the Owner shall prepare a statement, certified by 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 personnel.
- (3) The Owner shall prepare and make available for inspection by Ministry staff, a complete set of "as constructed" drawings within **one (1) year** of completion of construction of the Proposed Works. These drawings 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.

5. OPERATIONS AND MAINTENANCE

- (1) The Owner shall prepare an operations manual within **six (6) months** of the introduction of sewage to the Proposed Works, that includes, but not necessarily limited to, the following information:
 - (a) operating procedures for routine operation of the Works; and
 - (b) inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary.
- (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.
- (3) The Owner shall prepare and make available for inspection by Ministry staff, a maintenance agreement with the manufacturer of the treatment process/technology and a complete set of "as constructed" drawings within **one (1) year** of completion of construction of the Proposed Works. The maintenance agreement and drawings must be retained at the site and kept current.
- (4) The Owner shall ensure that adequate steps are taken to ensure that the area of the Works are protected from all forms of vehicle traffic and are not used for any purpose other than sewage disposal.
- (5) In the event a break-out is observed from the bed, the Owner shall do the following:
 - (a) sewage discharge to that subsurface disposal system shall be discontinued;
 - (b) incident immediately reported verbally to the Spills Action Centre (SAC) at (416)

325-3000 or 1-800-268-6060;

- (c) followed by a written report to the District Manager within **one (1) week** of the break-out;
- (d) 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
- (e) sewage generated at the site shall be safely collected and disposed of through a licensed waste hauler to an approved sewage disposal site.

6. EFFLUENT OBJECTIVES

- (1) The Owner shall use best efforts to design, construct, operate and maintain the Proposed Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent being discharged from the Works.

Table 1 – Effluent Objectives	
Effluent Parameter	Concentration Objective (milligrams per litre unless otherwise indicated)
CBOD ₅	10.0
Total Suspended Solids	10.0

- (2) The Owner shall use best efforts to operate the works within the design capacity of the Works.
- (3) In the event of an exceedence of the objective set out in condition 6.(1), the Owner shall:
 - (a) notify the District Manager as soon as possible during normal working hours,
 - (b) take immediate action to identify the cause of the exceedence, and
 - (c) take immediate action to prevent further exceedence.
- (4) The Owner shall include in all reports submitted in accordance with Condition 8 a summary of the efforts made and results achieved under this Condition.

7. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Proposed 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 following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Table 2 - Influent Monitoring (Samples to be collected at central dosing tank)	
Frequency	Annually
Sample Type	Grab
Parameters	BOD ₅ , pH, Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN), and Total Suspended Solids (TSS).

Table 3 - Effluent Monitoring (Samples to be collected of the effluent from the treatment unit)	
Frequency	Two times per operating season middle June to middle September no less than one month apart.
Sample Type	Grab
Parameters	CBOD ₅ , Nitrate Nitrogen, Nitrite Nitrogen, Total Ammonia Nitrogen, Total Phosphorus (TP) and Total Suspended Solids (TSS).

Table 4 - Groundwater Monitoring	
Location	Background Monitoring Well, and Groundwater Monitoring Wells #1 to #6.
Frequency	Two times per operating season middle June to middle September no less than one month apart.
Sample Type	Grab
Parameters	Chloride, Dissolved Reactive Phosphorous, Nitrate Nitrogen, Nitrite Nitrogen, pH, Temperature, Total Ammonia Nitrogen, Total Phosphorus (field filtered and preserved with acid).

- (3) The Owner shall measure and record the daily volume of effluent being discharged to subsurface disposal system and shall ensure that the daily flow of sewage discharged into the type A dispersal bed does not exceed 22,600 litres per day.
- (4) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
- (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 from time to time by more recently published editions; 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.

- (5) The measurement frequencies specified in subsection 2 in respect to any parameter are minimum requirements which may be modified by the Director in writing from time to time.
- (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. REPORTING

- (1) **One (1) week** prior to the start up of the operation of the Proposed Works, the Owner shall notify the District Manager (in writing) of the pending start up date.
- (2) Site Specific Condition - The Owner shall report to the District Manager or designate, when nitrate nitrogen levels exceed 7.5 milligrams per litre at groundwater monitoring well MW4, MW5 or MW6, orally, as soon as reasonably possible, and in writing within **seven (7) days** of the exceedance.
- (3) In addition to the obligations under Part X of the EPA, the Owner shall, within **10 working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, 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.
- (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 to the District Manager, a **Performance Report** for the Works. The first such report shall cover the first annual period following the issuance of this Approval 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 description of any operating problems encountered and corrective actions taken;
 - (b) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;
 - (c) a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - (d) a description of efforts made and results achieved in meeting the Effluent Objectives of condition 6.
 - (e) a summary of any complaints received during the reporting period and any steps taken to

address the complaints;

- (f) a tabulation of the daily volume of effluent being treated by the Works during the reporting period; and
- (g) any other information the District Manager requires from time to time.
- (h) a groundwater monitoring report prepared by a licensed independent Professional Geoscientist or Professional Engineer qualified in the field of hydrogeology, and shall include, but not limited to, the following:
 - (i) a site plan or plans of the entire site illustrating significant site features such as lakes, rivers, seeps, ponds, ditches, collection and treatment facilities, and roadways, as well as all of the sampling locations.
 - (ii) a cross section of the subsurface soils, stratigraphy, displaying the groundwater elevations.
 - (iii) a groundwater contour map showing the groundwater elevations for each well and the groundwater flow directions.
 - (iv) tables summarizing all historical and current water level data and analytical results for all parameters for each groundwater monitoring well.
 - (v) a copy of the borehole logs for all groundwater monitoring wells (may be provided electronically on CD).
 - (vi) a copy of the original laboratory analytical results (may be provided electronically on CD).
 - (vii) conclusions and recommendations for future monitoring and/or contingency measures.

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 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.
2. Condition 2 is included to ensure that the Proposed Works are constructed in a timely manner so that standards applicable at the time of Approval of the Proposed Works are still applicable 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 in accordance with the approval and that record drawings of the Works “as constructed” are maintained for future references.
5. Condition 5 is included to require that the Works be properly operated and maintained such that the environment is protected.
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 included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis that the Works are properly operated and maintained and that the Works do not cause any impairment to the environment.
8. Condition 8 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.

SCHEDULE 'A'

1. Environmental Compliance Approval Application for Private Sewage Works submitted by Gerry Dignard, Canadian Shield Consultants Agency Inc., and signed by Chris Challinor, President, Red Eagle Trailer Park Inc., dated December 6, 2019, and all supporting documentation and information.

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

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

The Notice should also include:

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

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

This Notice must be served upon:

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

AND

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

AND

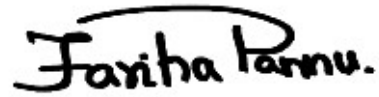
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

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

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 14th day of October, 2020



Fariha Pannu, P.Eng.

Director

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

AA/

c: Area Manager, MECP Belleville Area Office

c: District Manager, MECP Kingston - District Office

Gerry Dignard, Canadian Shield Consultants Agency Inc.