



GOVERNMENT  
OF  
NEWFOUNDLAND AND LABRADOR  
Department of Environment and Climate Change  
**CERTIFICATE OF APPROVAL**

Pursuant to the *Environmental Protection Act, SNL2002, Sections 16, 78 and 83.*

Issued: December 10, 2021  
Expiration: December 10, 2026

Approval No.: WMS 19-12-001

**Proponent:** Enviro Green Septic Pumping Ltd.  
P.O. Box 183  
Stephenville, NL  
A2N 2Y9

Attention: Mr. Shaun Boyd

**Re: Approval to Operate an ABYDOZ Septic Waste Treatment Facility in Stephenville**

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Approval is hereby given for the continued operation of your ABYDOZ septic waste treatment facility in Stephenville, NL.

This approval does not release the holder from the obligation to obtain appropriate approvals from other concerned provincial, federal, and municipal agencies. Approval from the Department of Environment and Climate Change (the Department) shall be obtained prior to any significant change in the design, construction, installation, or operation of the facility, including any future expansion of the works. This certificate shall not be sold, assigned, transferred, leased, mortgaged, sublet, or otherwise alienated by the holder without obtaining written prior approval from the Minister.

This approval is subject to the terms and conditions attached hereto, and may be revised from time to time by the Department. The terms and conditions form part and parcel of this Certificate of Approval. Failure to comply with any of the terms and conditions may render this Certificate of Approval null and void, may require the proponent to cease all activities associated with this Certificate of Approval, may place the proponent and its agent(s) in violation of the *Environmental Protection Act, SNL., 2002, c. E-14-2*, and will make the proponent responsible for taking such remedial measures as may be prescribed by the Department. The Department reserves the right to add, modify, or revoke this approval at any time.

**for, MINISTER**

## General

1. This renewal Certificate of Approval is for the Enviro Green Septic Pumping Ltd. ABYDOZ septic waste treatment facility as per plans and specifications supplied by Enviro Green Septic Pumping Ltd. for this Certificate of Approval.
2. Prior to the expansion or modification of the waste management system, a letter of application shall be forwarded to the Department requesting an amendment to this approval.

## Operations

3. Approval is given for the continued operation of a sewage and septic waste treatment facility located in Stephenville, Newfoundland. Enviro Green Septic Pumping Ltd. is responsible for this activity.

## Definitions

4. In this Certificate of Approval:
  - **adverse effect** means an effect that impairs or damages the environment and includes an adverse effect to the health of humans
  - **CCME** means Canadian Council of Ministers of the Environment
  - **contaminant** means, unless otherwise defined in the regulations, a substance that causes or may cause an adverse effect
  - **Department** means the Department of Environment and Climate
  - **EDMS** means the Environmental Data Management System
  - **Proponent** means Enviro Green Septic Pumping Ltd.
  - **QA/QC** means Quality Assurance/Quality Control
  - **Regional Director** means the Director of the nearest Digital Government and Service NL regional office
  - **sludge** means muddy or slushy mass, deposit, or sediment
  - **solid** means firm and stable in shape (not liquid or fluid)
  - **TPH** means total petroleum hydrocarbons as measured by the Atlantic PIRI method
  - **TSS** means total suspended solids

## Application Submission

5. The following submissions have been received by the Department to support this request for a renewed Certificate of Approval:
  - Email received on **December 9, 2021** requesting renewal of current Certificate of Approval.

## **Emergency Preparedness**

6. The proponent shall maintain an environmental emergency and contingency plan and submit a current copy and annual updates for review and approval by the Department by ***January 31*** of the following year.
7. The proponent shall ensure that this approval, or a copy, is kept on site at all times and that personnel directly involved in the operation of the sewage waste treatment system are made fully aware of the terms and conditions which pertain to this approval.
8. All responsible personnel who are directly involved with the operation and maintenance of the processing system shall be provided copies of this approval.
9. For after-hours emergencies and spill reporting call **1-800-563-9089**.
10. All appropriate health and safety procedures shall be constantly maintained at the site in accordance with applicable legislation.
11. Pre-engineered treatment system(s) shall be operated and maintained in accordance with the manufacturer's operating and maintenance specifications and health and safety plan.
12. The operator(s) shall have petroleum fire and spill response training.
13. The Minister may at any time, with reasonable notice, require the proponent to conduct or have conducted environmental studies, site assessments, sampling, testing, or investigations where, based upon reasonable and probable grounds, the Minister is of the opinion that this waste management system may have had, or has the potential to have, an adverse effect on the environment.

## **Digital Government and Service NL**

14. Through a Memorandum-of-Understanding this Department has authorized the Department of Digital Government and Service NL to act on its behalf in inspecting and/or auditing this operation for compliance under this approval and all applicable provincial Acts and Regulations.

## **Legislation**

15. The activities associated with this operation may involve, but not be limited to, the following provincial Acts and Regulations, policies, guidelines and their successors:
  - *Dangerous Goods Transportation Act*;
  - *Fire Prevention Act, 1999*;
  - *Environmental Protection Act, 2004*;
  - *Air Pollution Control Regulation, 2004*;
  - *Halocarbon Regulations, 2005*;

- *Storage and Handling of Gasoline and Associated Products Regulations, 2003;*
  - *Used Oil and Used Glycol Control Regulations, 2018;*
  - *Water Resources Act, 2002;*
  - *Environmental Control Water and Sewage Regulations, 2003;*
  - *GD-PPD-066 Sampling of Water and Wastewater – Industrial Effluent Applications;*
  - *Accredited Laboratory Policy PD:PP2001-01.2;*
  - *Effluent Discharge Schedule Determination Policy for Industries PD:PP2013-01.*
16. The activities associated with this operation may involve, but not be limited to, the following federal Acts and Regulations and their successors:
- *Canadian Environmental Protection Act, 1999 and Regulations;*
  - *Interprovincial Movement of Hazardous Waste and Hazardous Recyclable Materials Regulations;*
  - *Export and Import of Hazardous Waste and Hazardous Recyclable Materials Regulations;*
  - *CCME Canadian Environmental Soil Quality Guidelines*
  - *CCME Guidelines for Compost Quality*
  - *Transportation of Dangerous Goods Act and Regulations*
  - *Fisheries Act*
  - *National Fire Code*

### **Financial Assurance**

17. Valid environmental liability impairment insurance in the minimum amount of \$1,000,000 shall be maintained and proof shall be submitted to the Department within 90 days of the issuance of this approval otherwise it shall be null and void.
18. A surety bond of \$10,000 shall be on file with the Department within 90 days of the issuance of this approval otherwise it shall be null and void.
19. Annual updates of the financial assurance documents shall be filed with the Department.
20. The proponent shall provide the Department with three months advance notice if they intend to cancel coverage and/or change the insurer or bonding agent.

### **Air Emissions**

21. The proponent shall comply with the *Air Pollution Control Regulations, 2004* at all times. Schedule E of the regulations prohibits the open burning of tire; plastics; treated lumber; asphalt; asphalt products; drywall; demolition waste; hazardous waste; biomedical waste; domestic waste; trash, garbage, or other waste from commercial, industrial or municipal operations; manure; rubber; tar paper; railway ties; paint and paint products; fuel and lubricant containers; used oil; animal cadavers; hazardous substances; materials disposed of as part of the removal of decontamination of equipment, buildings or other structures.

### **Spill Prevention**

22. Areas in which chemicals are used or stored shall have impermeable floors and dykes or curbs and shall not have a floor drain system, nor shall it discharge to the environment. Areas inside the dykes or curbs shall have an effective secondary containment capacity of at least **110%** of the chemical storage tank capacity, in the case of a single storage container. If there is more than one storage container, the dyked area shall be able to retain no less than **110% the capacity of the largest container or 100% of the capacity of the largest container plus 10% of the aggregate capacity of all additional containers, whichever is greater**. These dyked areas shall be kept clear of material that may compromise the capacity of the dyke system. Once a year, the dykes shall be visually inspected for their liquid containing integrity, and repairs shall be made when required. Once every ten years, the dykes shall be inspected, by a means other than visual inspection, for their liquid containing integrity, and repairs shall be made when required.

### **ABYDOZ Performance**

23. Neither the Department nor Digital Government and Service NL has conducted or required any performance testing to confirm claims of the proponent and/or the manufacturer. The issuance of this approval is not to be interpreted as certification of the ABYDOZ technology.
24. All connections, couplings, hoses, lines, tanks, sumps, machinery, pumps, and all other components of the septic waste treatment equipment shall be liquid tight. In the event of a leak or spill the necessary repairs are to be made immediately.
25. The proponent shall ensure that all ABYDOZ infrastructure is operated as per the manufacturer's guidelines and specification.

### **Acceptable Sludge**

26. The proponent shall not store on site or process excrement of any type other than that which is human in origin.
27. All human sewage waste delivered to the site shall be processed through the ABYDOZ system.

### **Effluent Monitoring and Discharge**

28. Discharge of untreated septic/septic supernatant into the environment or a municipal sewer system is not permitted.

## Baseline Hydrogeological Survey

29. The proponent shall engage a qualified professional to conduct a baseline hydrogeological survey that includes depth to groundwater, direction of groundwater flow, hydraulic conductivity, site location, monitoring wells location, nearby environmentally sensitive receptors, baseline groundwater quality sampling, and nearest waterways/surface water sources. The survey shall be submitted to the Department by ***June 30, 2022***.

## Groundwater Monitoring Program

30. The proponent shall commence a Groundwater Monitoring Program four times per year at least 30 days apart by ***September 30, 2022***. The Department will confirm the number of locations once the baseline hydrogeological survey is received and reviewed. The required parameters are shown in **Table 1** and all results shall be submitted to the Department as per the ***Reporting*** section.

Table 1 – Groundwater Monitoring Program		
Location	EDMS Code	Parameters
To Be Determined	To Be Determined	<p><b>General Parameters:</b> nitrate + nitrite, nitrate, nitrite, pH, colour, sodium, potassium, calcium, sulphide, magnesium, ammonia, alkalinity, sulphate, chloride, fluoride, turbidity, reactive silica, orthophosphate, phosphorous, DOC, conductance, TDS (calculated), phenol, carbonate (CaCO<sub>3</sub>), hardness (CaCO<sub>3</sub>), bicarbonate (CaCO<sub>3</sub>), cyanide, TPH, total coliforms, fecal coliforms.</p> <p><b>Metals Scan:</b> aluminium, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, mercury, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc</p>

## Laboratory Analysis & QA/QC

31. Unless otherwise stated herein, all solids and liquids analysis performed pursuant to this Approval shall be done by either a contracted commercial laboratory or an in-house laboratory. Contracted commercial laboratories shall have a recognized form of accreditation. In-house laboratories have the option of either obtaining accreditation or submitting to an annual inspection by a representative of the Department, for which the proponent shall be billed for each laboratory inspection in accordance with Schedule 1 of the ***Accredited Laboratory Policy (PD:PP2001-01.2)***. Recommendations of the Director

stemming from the annual inspections shall be addressed within 6 months; otherwise further analytical results shall not be accepted by the Department.

32. If the proponent wishes to perform in-house laboratory testing and submit to an annual inspection by the Department then a recognized form of proficiency testing recognition shall be obtained for compliance parameters for which this recognition exists. The compliance parameters are listed in the ***Groundwater Monitoring Program*** section. If using a commercial laboratory, the proponent shall contact that commercial laboratory to determine and to implement the sampling and transportation QA/QC requirements for those activities.
33. The exact location of each sampling point shall remain consistent over the life of the monitoring programs, unless otherwise approved by the Department. Using a GPS or similar device, the northing and easting of each sampling location shall be recorded and submitted by ***September 30, 2022*** to the Department.
34. The proponent shall bear all expenses incurred in carrying out the environmental monitoring and analysis required under conditions of this Approval.

### **Monitoring Alteration**

35. The Department has the authority to alter monitoring programs or require additional testing at any time when:
  - pollutants might be released to the surrounding environment without being detected;
  - an adverse environmental effect may occur; or
  - it is no longer necessary to maintain the current frequency of sampling and/or the monitoring of parameters.
36. The proponent may, at any time, request that the monitoring program or requirements of this approval be altered by:
  - requesting the change in writing to the Department; and
  - providing sufficient justification, as determined by the Department.
37. The requirements of this Approval shall remain in effect until altered, in writing, by the Department.

### **Reporting**

38. An annual report shall be submitted to the Department by ***January 31<sup>st</sup>***, each year summarizing the proponent's activities the previous year. Also, this report shall include the current insurance and bonding documents as specified in the ***Emergency Preparedness*** and ***Financial Assurance*** sections and any updates to the ***Contingency Plan***.
39. Records documenting all septic waste that has been disposed of at the proponent's facility shall be collected and provided to the Department every three (3) months as per the schedule below. The report shall include the name(s) of the septic hauler as well as the amount of waste disposed of at the facility.

<b>Reporting Period</b>	<b>Reporting Due Date</b>
January 1 <sup>st</sup> – March 31 <sup>st</sup>	April 15 <sup>th</sup>
April 1 <sup>st</sup> – June 30 <sup>th</sup>	July 15 <sup>th</sup>
July 1 <sup>st</sup> – September 30 <sup>th</sup>	October 15 <sup>th</sup>
October 1 <sup>st</sup> – December 31 <sup>st</sup>	January 15 <sup>th</sup>

40. Monthly reports containing the environmental compliance monitoring and sampling information required in this Approval shall be received by the Department in digital format within 30 calendar days of the reporting month. All related laboratory reports shall be submitted with the monthly report in XML format and Adobe Portable Document Format (PDF). Digital report submissions shall be uploaded through the EDMS web portal. The Pollution Prevention Division shall provide details of the portal web address and submission requirements.
41. Each monthly report shall include a summary of all environmental monitoring components and shall include an explanation for the omission of any requisite data. The monthly summary reports shall be in Microsoft Words or Adobe PDF format and shall be uploaded through the EDMS web portal with the data submissions.
42. All incidents of :
- contingency plan implementation;
  - non-conformance of any condition within this approval;
  - spillage or leakage of a regulated substance;
  - discharge criteria being, or is suspected of being, exceeded; or
  - verbal or written complaints of an environmental nature received from the public by the proponent and related to the facility, including complaints submitted anonymously;

shall be immediately reported, within one working day, to a person or message manager or facsimile machine at Digital Government and Service NL by phoning or faxing or via email.

Digital Government and Service NL (Corner Brook)

Telephone: (709) 637-2204

Facsimile: (709) 637-2681

43. A written report including a detailed description of the incident, summary of contributing factors and an action plan to prevent future incidents of a similar nature, shall be submitted to the respective Regional Director. The Action plan shall include a description of actions already taken and future actions to be implemented, and shall be submitted within thirty days of the date of the initial incident.



### Expiration

44. This approval expires on ***December 10, 2026***. Should the proponent wish to continue to operate beyond this expiry date, a written request shall be submitted to the Department for the renewal of this Approval. Such request shall be made **2 months prior** to expiration.

c.c. Susan Hoddinott, Regional Director  
Government Service Centre, Corner Brook  
Digital Government and Service NL