

**Vermont Department of Environmental Conservation
Drinking Water and Groundwater Protection Division**

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Agency of Natural Resources

**Innovative/Alternative (I/A) System Approval
For General Use****Island Water Technologies - ClearPod**

Original Approval Date: January 7, 2018

Approval Number: 2018-01

Expiration Date: January 7, 2019

Vendor Information

Island Water Technologies
P.O. Box 577,
233 Brook Street, Montague, PEI
Canada, COA 1R0
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Technology Name

ClearPod enhanced septic system treatment

Contact

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Technology Type

Drop-in, retro-fit, aeration and fixed-film technology

I. Authority

A. In accordance with the Environmental Protection Rules, Chapter 1, Wastewater System and Potable Water Supply Rules, Effective September 29, 2007, Subchapter 10, Approval of Innovative/Alternative Systems and Products § 1-1001: Innovative/Alternative Systems and Products: General Use, the Secretary (Secretary) of the Agency of Natural Resources (Agency), Department of Environmental Conservation, Drinking Water and Groundwater Protection Division (Division) has determined that the technologies listed in this Approval may be used as part of a soil-based disposal system permitted under the Vermont Wastewater System and Potable Water Supply Rules (Rules), provided the conditions of this Approval are met.

II. General

- A. This Approval contains specific requirements related to the design, installation, operation and maintenance of the named technology. This Approval requires the Landowner agree to ongoing operation and maintenance of the named technology.
- B. The Vendor (manufacturer) of the technology also has specific requirements for design review, training, installation oversight, and supporting the operation, maintenance and repairs needed to keep the approved technology in working condition.
- C. The technology listed in this Approval is used to pre-treat the wastewater prior to discharge to a soil-based disposal system. This Approval contains an expiration date and requires the Vendor apply for renewal of this Approval.

III. Approval Conditions

- A. The ClearPod enhanced septic system treatment product is a drop-in, retro-fit, aeration and fixed-film technology intended to be installed in the septic tank to assist in reducing wastewater strength. This product is not approved for reductions to leachfield size or vertical separation to seasonal high water table, impervious soils, or bedrock.
- B. The ClearPod may be installed in a soil-based wastewater system, permitted under the Rules, providing that the system has not failed and the conditions of this Approval are met. Failure by the Vendor to comply with this Approval is grounds for the Agency to revoke or not renew the Approval.
- C. Site-specific permission for the use of this product is required in the form of a Wastewater System and Potable Water Supply Permit (WW Permit) when a project is subject to the Rules.
- D. The ClearPod may be installed in a new or replacement wastewater system if this component is specified in the Wastewater System and Potable Water Supply Permit (WW Permit).
- E. The ClearPod may be installed in an existing wastewater system with a Minor Amendment to the WW Permit if the modification requires minimal technical review. Applications that require additional modifications and/or detailed technical review shall be classified as a Minor Project.
- F. This Approval shall expire on the date stated above. The Vendor may request renewal of this Approval prior to expiration.
- G. Each ClearPod treatment unit shall be installed and operated as approved by the Agency and as required by the Vendor's design, operation, and maintenance manuals.
- H. Treatment unit sizing shall be in accord with the Vendor's technical requirements approved by the Agency. Sizing of each unit shall be based on the calculated design flow per §1-808 of the Rules.
- I. If the Rules are revised during the term of this Approval, this Approval shall be revised as needed to conform to the revisions.
- J. This Approval is not a representation or guarantee of the effectiveness, efficiency, or operation of the treatment unit.
- K. This general use Approval is based on treatment of domestic wastewater of low and moderate waste strength as specified in §1-915(a)(1)(C) and (D) of the Rules except as specified in Section III(k) below.

IV. Responsible Parties, Requirements and Conditions

A. Landowner

1. The Landowner must comply with all conditions of the WW Permit in addition to the conditions of this Approval.
2. The Landowner shall provide a copy of this Approval, the WW Permit, and the operating instructions provided by the Vendor, to any person who is a prospective purchaser of a property prior to the sale of the property.
3. The Landowner shall keep the wastewater system, including the treatment unit named in good operating condition. The WW Permit amendment that authorizes the use of this product may be revoked if the treatment unit fails to function properly. Should the treatment unit fail to function properly and cannot be repaired it must be removed from the system.
4. The Landowner shall inform the Regional Office which issued the WW Permit if the ClearPod treatment unit is removed from the septic, or is no longer in operation. Removal of the ClearPod Treatment unit from the WW Permit shall require a Minor Amendment.

B. Vendor (manufacturer)

1. The Vendor shall provide training and support to their representatives, Designers, and Installers in Vermont, in the proper use and installation of the ClearPod enhanced septic system treatment unit.
2. The Vendor shall maintain a list of their trained representatives, Designers and Installers in Vermont which shall be made available to the Agency upon request.
3. The Vendor may submit a request to renew this Approval approximately 45 days before the expiration date.
4. The Approval renewal request shall include a description of any changes to the equipment, technical specifications and drawings, installation requirements, operation and maintenance requirements, and homeowner's manuals. If new models are introduced or changes are made to the technology, the Vendor shall submit detailed descriptions of any modifications to existing approved models as part of the renewal application.
5. The Approval renewal request shall also include a description of any known problems and failures of the approved technology together with the implemented or proposed remedial actions.

C. Designer

1. The Designer shall be trained by the Vendor on the appropriate use of the ClearPod prior to applying for a WW Permit, Minor Amendment, or Minor Project on behalf of the Landowner.
2. The Designer shall ensure the appropriate installation of the ClearPod under the guidance of the Vendor and in conformance with the site-specific WW Permit and product Approval.
3. The Designer shall ensure the Landowner is familiar with the operation and maintenance requirements as well as their responsibilities defined in the WW Permit and this Approval.

Effective Date: January 7, 2018

By: 

Grahame Bradley
Innovative / Alternative System Approvals