



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

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Innovative/Alternative System Approval For General Use

Infiltrator® Quick4 Chamber Systems

Approval Number: 2006-04-R5
Approval Date: September 20, 2019
Expiration Date: September 20, 2021

Vendor Information

Infiltrator® Water
Technologies LLC,
4 Business Park Road,
P. O. Box 768,
Old Saybrook, CT 06475

Technology Name

Quick4 Standard, Quick4 Plus Standard,
Quick4 Plus Standard Low Profile (LP)
Quick4 Equalizer 36
Quick4 Plus Equalizer 36 Low Profile (LP)
Quick4 High Capacity, Quick4 Plus High Capacity.

Contact

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Technology Type

Gravelless Leaching Chamber Dispersal System

I. Approval Conditions

The Infiltrator Quick4 series chambers may be used as part of a subsurface wastewater disposal system approved under the Wastewater System and Potable Water Supply Rules, effective April 12, 2019 (Rules) under the following conditions:

1. The Infiltrator Quick4 series chamber wastewater disposal systems must be designed, installed, and operated as described in the “Design and Installation Manual for Infiltrator Chambers in Vermont” (Manual), dated September 2019, filed with the Agency of Natural Resources (Agency). System sizing must be in accord with the Manual and the Vermont Rules. The allowable application rate documented in Manual is up to two times that allowed for a conventional pipe and stone system based on the application of septic tank effluent.
2. Application of filtrate effluent will be sized at the same rate per square foot of bottom area as for conventional pipe and stone systems applying filtrate effluent. As with a conventional

pipe and stone system, only the uncovered bottom area of the trench or bed may be used when calculating the system size.

3. This Approval is based on disposal of domestic wastewater of low and moderate strength as specified in §1-805 of the Rules. Systems to treat higher strength wastes may be approved by the Secretary on a case-by-case basis with the Vendor's agreement.
4. The Infiltrator Chambers may be used for both new and replacement systems.
5. If the Rules are revised during the term of this Approval, this Approval may be revised as need to conform to the revisions.
6. Site-specific approval for the use of this product is required in the form of a Wastewater System and Potable Water Supply Permit.
7. A site-specific Permit for the use of this product may be revoked if the system fails to function properly. Revocation of the Permit will require that the use of the building be discontinued unless another wastewater disposal system is installed based on prior written approval by the Agency.
8. The Licensed Designer (Designer) shall provide a copy of this Approval to any landowner who is a prospective purchaser of an AES or ES wastewater distribution and treatment systems prior to the sale of the system and prior to the filing of any application for a site-specific Permit by the Agency for the purchaser's property. Prior to any sale of the property or completion of a sales agreement to sell the property, a copy of the site-specific Permit and technology-specific Approval shall be provided to the prospective purchaser. The application filed with the Agency shall include the landowner's written acknowledgement of this Approval.
9. This Approval is not a representation or guarantee of the effectiveness, efficiency or operation of an Infiltrator Quick4 chamber wastewater disposal system.
10. This Approval shall expire on the date stated above. Applications for renewal of this Approval shall be submitted 45 days before the expiration date. The 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.

II. Landowner Requirements

1. A copy of the site-specific Permit and technology-specific Approval shall be provided to any prospective purchaser prior to the sale.

III. Vendor Requirements

1. The vendor shall train and certify Designers and installers in the proper use and installation of the Advanced Enviro-Septic® and Enviro-Septic® wastewater distribution and treatment systems.
2. The vendor shall submit an annual report to the Agency by April 1 of each year containing the following information for the 12-month period ending December 31 of the previous year:
 - A. A list of names of Designers and Installers trained by the vendor.
 - B. All known problems, damages, and/or failures, including:
 - i. Description of the issues;
 - ii. Potential/known causes of problems;
 - iii. System operability;
 - iv. Recommended repair/remediation;
 - v. Date(s) of repair/remediation; and
 - vi. System effectiveness.

Note: Repairs that are not defined by the Rules as a “Minor Repair” require approval by the Division prior to making the repair.

IV. Design and Review Conditions

The following conditions will be used by the Department in reviewing Permit applications that include Infiltrator Chamber wastewater disposal systems designed in accordance with this Approval:

Design and Application

1. The Designer shall specify which Infiltrator Quick4 series model is to be installed;
2. The system shall be designed the “Design and Installation Manual for Infiltrator Chambers in Vermont”, dated September 2019.
3. The designer shall assure that the system will properly function in all seasons.
4. The designer shall provide the landowner with written guidance on the maintenance requirements and homeowner responsibilities in the care and use of an onsite wastewater system.

Installation Inspection

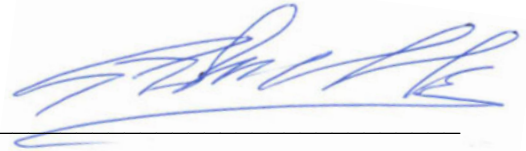
1. The wastewater disposal system shall be installed in accordance with the approved plans and under the instruction and guidance of an installer/inspector trained by the Vendor.
2. The wastewater disposal system shall be inspected by a Licensed Class 1 Designer or a Licensed Class B Designer, approved by the Vendor, during installation of the system and installation of any tanks before backfilling, and after backfilling and grading is complete. The inspection shall include checking for levelness of the chambers and inspecting for damage and proper assembly. The Designer shall inspect all transport piping for proper installation and watertightness before backfilling.
3. A letter certifying that the system is correctly installed (including the language specified in §1-308 of the Rules) shall be provided electronically to the vendor and the approving Regional Office that issued the Permit.

Permitting

1. The Permit shall run with the land.

Effective Date: September 20, 2019

By



Graham Bradley
Innovative/Alternative System Approvals