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January 14, 2025

Mark Schaefer, Government Affairs Specialist
Orenco Systems, Inc.
814 Airway Ave.
Sutherlin, OR 97479

Subject: Product Registration, Orenco Systems, Inc., Full Product Line

Dear Mr. Schaefer:

By request, this letter updates the full line approval letter sent by Jim Jacobsen on April 8, 2016. The address and contact have been changed. Mr. Jacobsen's letter follows this updated address with the new citations from the 2023 10-144 Chapter 241 reissue.

The Division of Environmental Health has completed a review of a registration application for the subject products. This information was submitted pursuant to Section (7).(HH) of the Subsurface Wastewater Disposal Rules for registration for use in Maine.

The Orenco Systems, Inc. product line consists of septic tanks and related equipment, pumping stations and related control systems, effluent sewers, BioTube effluent filters, AdvanTex Textile Treatment Systems, and various accessories.

AdvanTex Textile Treatment System AX-20, AX-RT, AX-Greywater, AX-100, AX-Max

The AdvanTex Textile Treatment System consists of a recirculating textile packed bed filter comprised of a watertight tank with an upper distribution manifold and a lower collection manifold. The textile filter/fixed film media is located between the manifolds. The packed bed filter receives primary treated effluent from either an integral two compartment septic tank, or separate septic tank installed in series ahead of the packed bed filter. The treated effluent is recirculated into the primary treatment tank until the desired treatment level is achieved, and then disposed of pursuant to applicable regulations. According to the information on file, the Orenco Systems, Inc. AdvanTex Textile Treatment System received National Sanitation Foundation (NSF) Standard 40 approval in April of 2002. The system produces effluent with combined BOD₅ and TSS levels of 20 mg/l or less.

BioTube Effluent Filters: Residential, Commercial, and External Basin

The Residential series is comprised of 4 inch Biotube effluent filter, 4 inch Biotube Jr., and 8 inch and 12 inch Base Inlet inserts (for use with existing plastic tee outlets). The Commercial series is comprised of 8, 12, and 15 inch Biotube effluent filters, and 12 and 15 inch Bitoube effluent filters with an integral slide rail to accommodate adjustments in elevation. The External Basin consists of a an 18 diameter plastic cylinder with an 8 inch Biotube effluent filter, and is installed between the septic tank outlet and the point of disposal. The Biotube filters are comprised of a series of proprietary perforated plastic tubes, arranged in parallel around a vertical axis. According to the information on file, the Orenco Systems, Inc. Biotube Effluent Filters reduce suspended solids in septic tank effluent by approximately 66 percent.

Orenco Systems, Inc. Septic Tanks

Orenco Systems, Inc. septic tanks are comprised of 1,000 gallon and 1,500 gallon fiberglass reinforced plastic tanks, 500 gallon fiberglass tanks, PVC risers, fiberglass kids, and adapters and risers.

Orenco Systems, Inc. Effluent Sewers and Collection Systems

Orenco Systems, Inc. effluent sewers and collection systems include STEP (septic tank effluent pumped) and STEG (septic tank effluent gravity). These systems are comprised of tanks, sewer lines, and pumps (STEP) to collect and deliver effluent to a point of disposal.

Orenco Systems, Inc. Pumping Systems

Orenco Systems, Inc. pumping systems are comprised of Pro STEP, BioTube Universal Pump Vaults, BioTube Easy Pak, and PF Series submersible pumps.

The Orenco Systems, Inc. product line also includes miscellaneous splicing boxes, carbon filters, dosing siphons, and electronic control and alarm systems.

On the basis of the information, the Division has determined that the Orenco Systems, Inc. product line is acceptable for use in the State of Maine, provided that the various products are installed, operated, and maintained in conformance with the manufacturer's directions and applicable sizing and installation requirements of the Maine Subsurface Wastewater Disposal Rules.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of Orenco Systems, Inc. products. Further, registration of these products for use in the State of Maine does not represent Division preference or recommendation for this product over similar or competing products.

If you have any questions, please feel free to contact me at (207) 287-5695.

Sincerely,



Alexander L. Pugh
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