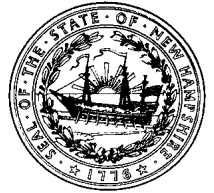




State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3644 FAX (603) 271-2181



October 29, 2001

Mr. William Cagle  
Business Development Manager  
Orenco Systems, Inc.  
814 Airway Avenue  
Sutherlin, OR 97479

**Re: Orenco AdvanTex™ Residential Wastewater Treatment System**

Dear Mr. Cagle:

This is a revised approval of the Orenco AdvanTex™ Residential Wastewater Treatment System. The NH Department of Environmental Services (DES) has reviewed its approval of such units and is revising the design requirements in Condition Number 4, below. That is the only substantive modification made. This approval supercedes all previous DES approvals.

Based on material submitted, DES approves the use of the AdvanTex treatment units (the "AdvanTex unit") for general use per Env-Ws 1024.06(d), subject to the following limitations:

1. Units must be installed in accordance with manufacturer's recommendations.
2. Unit sizing must follow the guidelines in the technical material in the March 1, 2001 package.
3. A leach field used for disposal of treated effluent from an AdvanTex unit may be reduced up to 50% of the size listed in Env-Ws 1014.07. However, please understand that double reductions will **not** be allowed. For example, you may not claim the allowable reduction for chambered leach fields in a residential use, and then claim a 50% reduction of that reduced size. DES will not allow leach fields any smaller than ½ of the size listed in Env-Ws 1014.07.
4. If an applicant proposes to place an AdvanTex unit employing a reduced leach field size per No. 3, above, on a lot which was created prior to adoption of DES subdivision rules, the design submitted shall demonstrate sufficient capacity to construct a full sized leaching facility on the lot.
5. All other details of the overall wastewater disposal system using AdvanTex units must comply with the provisions of NH Code of Administrative Rules, Chapter Env-Ws 1000, except that a separate septic tank (that is, a septic tank in addition to the tank with the treatment unit) is not required for systems which use an AdvanTex unit.
6. Please review the requirements in Env-Ws 1024.03. A renewable maintenance contract must be sold with each AdvanTex unit.

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7. Maintenance must be performed by a licensed wastewater treatment plant operator. A fact sheet on DES's licensure program is available at <http://www.des.state.nh.us/factsheets/wwt/web-2.htm>. For small residential applications, a Grade 1 license will be sufficient.
8. Per Env-Ws 1024.06(c), a copy of this letter shall accompany any specific design involving the use of the AdvanTex unit under this approval which may be submitted to DES.

If you have questions, please feel free to call me at the Water Division at (603) 271-2941.

Sincerely,



Robert P. Minicucci II, PE  
Innovative Technology Coordinator

OrencoAdvntx10~2001

CC: William Evans, PE, DES/SSB  
James Falicon, DES/SSB  
Collis Adams, PE, DES/SSB  
David Cotton, PE, Wastewater Technologies, Inc.