



# Oregon

Theodore Kulongoski, Governor

## Department of Environmental Quality

Western Region Eugene Office

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November 9, 2007

Michael S. Price, RS  
Vice President / Sales  
220 Republic Street  
Norwalk, OH 44857-1156

RE: Norweco®, Inc., Singulair® Bio-Kinetic® System Model TNT-500 Alternative Treatment Technology

Dear Mr. Price,

The Oregon Department of Environmental Quality (Department) has received your Alternative Treatment Technology (ATT) application and the plans, specifications, and other required application exhibits. Your company certified that the following ATT system complies with all applicable Department rules and regulations. The Department has reviewed the materials submitted with your application for compatibility with the standards and criteria found in Oregon Administrative Rule (OAR) 340-071-0345. I am pleased to advise you that the following ATT system has been found to meet approval criteria for Treatment Standard 1 when used as part of an onsite wastewater treatment system in Oregon:

- Norweco® Singulair® model TNT-500 (500 gpd)

You are authorized to manufacture, market, and distribute this ATT system for use in Oregon, provided the following conditions are met:

1. The ATT systems must be manufactured in compliance with the Department's rules, and the plans and design specifications provided. Any deviation from the approved plans and specifications are not permitted unless authorized by NSF® International and in writing by the Department. Product modification approvals must be copied to the Department.

The approved version of the plans is drawing number PC-5-9935 dated 11/9/07.

2. In the event of aerator failure, the control panel must lock out effluent pump operation to prevent untreated or partially treated effluent from discharging to the absorption facility. An audible alarm must activate in the event of either effluent pump or aerator failure.
3. The ATT system must be preceded by a septic tank approved for use in Oregon.

4. The manufacturer must provide training for, and maintain a list of, certified installers and maintenance providers authorized to work on these ATT systems and provide certificates to those individuals.
5. Systems less than 10 years old may not exceed a failure rate of 10 percent.
6. The ATT system must maintain NSF® International Standard 40 certification.
7. As the manufacturer of these products, it is your responsibility to assure that each assembled ATT system delivered to the construction site is water-tight. Assurance must be achieved by periodic testing of the ATT system's components for water-tightness at the manufacturing facility.
8. A minimum two-year service contract, including a minimum of four service visits (scheduled every six months) must be included in the purchase price of the ATT system.
9. Each ATT system must be delivered with an installation guide and owners manual.
10. Each ATT system is only acceptable at locations where the top loading will not exceed the engineering design parameters. ATT systems proposed for use at other locations will require an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.

This determination should not be construed in any way as the Department's endorsement of this product or any advertising. Moreover, the Department is not responsible for any situation which may result from use or mis-application of your product.

If you have any questions regarding this letter, please contact the Department's Onsite Program Coordinator, Zach Loboy at (541) 687-7425 or by email at [loboy.zach@deq.state.or.us](mailto:loboy.zach@deq.state.or.us).

Sincerely,



Michael E. Kucinski, Manager  
Water Quality/Onsite

c: All Contract County Offices  
All DEQ Direct Service Offices  
Dan Wiltse, DEQ Eugene

