

**DEPARTMENT OF HEALTH AND HUMAN SERVICES  
DIVISION OF PUBLIC HEALTH  
ENVIRONMENTAL HEALTH SECTION  
ON-SITE WATER PROTECTION BRANCH**

North Carolina Residential Wastewater Treatment System Approval

Issued To: Norweco, Inc.  
220 Republic St  
Norwalk, OH 44857-1196

For: Singulair® Green Model 960-500 and Model TNT 960-500

Date: March 25, 2014

I. Approved Models

Residential wastewater treatment systems shall be manufactured as per the approved drawings, specifications and testing results, and in concurrence with 15A NCAC 18A .1957(c).

Approved models, corresponding daily design flow rates, and approved RWTS numbers are as follows:

Singulair Green Model 960

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
960-500	500 gpd	RWTS-71
960-500	600 gpd	RWTS-73

Singulair Green Model TNT

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
TNT 960-500	500 gpd	RWTS-72
TNT 960-500	600 gpd	RWTS-74

II. Approved Settling Tanks

The approved settling tanks for each of the model numbers are as specified below:

<u>Model Number</u>	<u>Approved Settling Tank</u>
960-500 and TNT 960-500 models	Integral part of tank, minimum capacity of 450 gallons as per approved plans

III. Influent and Effluent Sampling

Influent samples shall be taken from beneath the access opening over the pretreatment chamber. The sample shall be taken from the clear zone beneath any scum layer using a sludge judge or similar device. Influent samples shall be tested for BOD and TKN.

Effluent samples shall be taken from an approved sampling port. For installations with gravity fall to the soil absorption system, the sampling port shall be located immediately downstream of the tank outlet in a manufacturer provided Tipping Distribution Box. For installations with an effluent dosing station, the sampling port shall be located immediately following the drainfield dosing pump (prior to the spin filters for drip systems). The approved sampling port shall include a ½-inch tap with ball valve in the discharge line inside the pump tank riser. To obtain the sample, the ball valve shall be fully open with the pump running for at least 30 second before taking the grab sample. Effluent samples shall be tested for CBOD and TSS.

Systems shall be sampled annually for design flows less than 1,500 gallons per day.

All sampling shall be done in accordance with Rule 15A NCAC 18A .1970(n).

#### IV. Flow Monitoring

Flow monitoring shall include a determination of the 7-day and 30-day flow for the corresponding time period preceding each ORC inspection/sample collection. Where effluent flows by gravity to the receiving environment, the Tipping Distribution Box shall include a manufacturer provided counter and data logger capable of recording the daily flow from the tipper “counts” for at least the last 30 days. For installations where effluent is under pressure, flows shall be determined either by using the Tipping Distribution Box and counter/data logger or an elapsed time meter/data logger in the effluent pumping station control panel.

When a drip distribution system is proposed, either the Norweco Tipping Distribution Box shall be used or the drip manufacturer shall provide the necessary flow monitoring capability with their separate drip system control panel.

#### V. Operation, maintenance and monitoring requirements

The ORC must be both a Grade II licensed wastewater treatment facility operator and a licensed subsurface operator.

For all systems, Norweco, Inc. shall provide for the ongoing operation and maintenance of their systems. Norweco, Inc. shall make available to the owner an operation and maintenance contract that meets the requirements of 15A NCAC 18A .1961. The contract shall be renewable and the contract term shall be for a minimum of one year.

The ORC must either work for Norweco, Inc., be an authorized representative of Norweco, Inc., or be authorized in writing by Norweco, Inc. or their authorized representative to operate the system.

The State may modify, suspend, or revoke the approval of a system as follows:

- (1) The system approval shall be modified as necessary to comply with subsequent changes in the laws or rules which affect their approval.
- (2) The approval of a system may be modified, suspended or revoked upon a finding that:

- (A) subsequent experience with the system results in altered conclusions about system performance, reliability, or design;
- (B) the system or component fails to perform in compliance with performance standards established for the system; or
- (C) the system or component or the system applicant fails to comply with wastewater system laws, rules or conditions of the approval.