

DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

North Carolina Residential Wastewater Treatment System Approval

Issued To: Aquarobic International, Inc
5800 Prillaman Switch Rd
PO Box 579
Ferrum, VA 24088

For: Aquarobic Mini-Plant Model F54291-5 to 7.5

Date: July 13, 2010

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:

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
F54291	500 gpd to 750 gpd	RWTS-1

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>
Aquarobic Mini-Plant Model F54291-5 to 7.5	Integral part of tank, minimum capacity of 538 gallons as per approved plans

III. Influent and Effluent Sampling

Influent samples shall be taken the sampling port located at the front of the unit. Influent samples shall be tested for BOD and TKN.

Effluent samples shall be taken from the approved sampling port located on the effluent pump piping. To obtain the sample, the 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. The control panel Mitsubishi Electric Alpha Series shall take the flow readings.

When a drip distribution system is proposed, 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 systems installed after July 1, 2006, Aquarobic International, Inc. shall provide for the ongoing operation and maintenance of their systems. Aquarobic International, 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.

For systems installed prior to July 1, 2006, Aquarobic International, Inc. shall provide an optional renewable yearly operation and maintenance contract with the owner the meets the requirements of 15A NCAC 18A .1961.

The ORC must either work for Aquarobic International, Inc., be an authorized representative of Aquarobic International, Inc., or be authorized in writing by Aquarobic International, 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.