



## Division of Environmental Health

Terry L. Pierce, Director  
On-Site Water Protection Section  
Ted Lyon, Chief

State of North Carolina  
Michael F. Easley, Governor

Department of Environment and  
Natural Resources  
William G. Ross, Secretary

August 10, 2007

Bennette D. Burks, P.E.  
Consolidated Treatment Systems, Inc.  
1501 Commerce Center Drive  
Franklin, OH 45005

Subject: Revised Approvals for Enviro-Guard ENV-0.75, Multi-Flo Model FTB Series, and Nayadic Model M-6A Series

Dear Mr. Burks:

We have completed our review of information from Consolidated Treatment Systems, Inc. with respect to the modifications to your approved residential wastewater treatment units resulting from changes to 15A NCAC 18A .1957(c) and .1970. The proposed modifications are found to be acceptable by the On-Site Water Protection Section and are hereby approved under the On-Site Water Protection Section Approval Numbers:

### Enviro-Guard

<u>Model Number</u>	<u>RWTS Number</u>	<u>Imprint</u>
ENV-0.75	RWTS-37	Enviro-Guard RWTS-37-750

### Multi-Flo

<u>Model Number</u>	<u>RWTS Number</u>	<u>Imprint</u>
FTB-0.5	RWTS-25	Multi-Flo RWTS-25-500
FTB-0.6	RWTS-29	Multi-Flo RWTS-29-600
FTB-0.75	RWTS-30	Multi-Flo RWTS-30-750
FTB-1.0	RWTS-31	Multi-Flo RWTS-31-1000

### Nayadic

<u>Model Number</u>	<u>RWTS Number</u>	<u>Imprint</u>
M-6A	RWTS-24	Nayadic RWTS-24-500

For all Models, the units shall be preceded by a State-approved septic tank or another settling tank which may subsequently be State-approved with liquid capacity at least equal to half of the rated capacity of the unit.

The imprints listed above will identify the manufacturer, serial numbers, and capacities of the units. The imprint will be located to the right of the opening on the outlet end of the tank.

1642 Mail Service Center, Raleigh, North Carolina 27699-1642  
Phone (919) 715-3272 / Fax (919) 715-3227  
<http://www.ncenvirohealth.org>

An Equal Opportunity / Affirmative Action Employer

One  
North Carolina  
*Naturally*

Please note that this approval applies only to Residential Wastewater Treatment Units constructed in accordance with approved plans and specifications; and, if found in non-compliance, an operation permit shall not be issued for the installed wastewater system. In addition, all Residential Wastewater Treatment Units shall be watertight and shall be subject to a watertightness test in accordance with local and state environmental health guidelines. All requirements of Rule .1957(c) shall also met, including the requirement for the manufacturer or manufacturer's licensed representative to certify that the system has been properly installed, and for the owner to execute a contract with a certified wastewater treatment facility operator prior to operation permit issuance.

Your Residential Wastewater Treatment Units must remain approved and listed in accordance with the standards adopted by the National Sanitation Foundation, Inc. for the Class I residential wastewater treatment systems as set out in Standard 40, as amended, pursuant to North Carolina General Statute GS 130A-342, and applicable sections of Rule .1957(c).

Additionally, all unit manufacturers having a North Carolina State approval are subject to periodic, un-announced inspections of their units and manufacturing process by State and local environmental health officials. Should units be found to not be in compliance with state approved plans or with State wastewater rules (15A NCAC 18A .1900 et. seq.), such units may be permanently identified as being unacceptable for use in North Carolina on-site wastewater systems and the manufacturers of such units may face suspension of approval for their units.

If you have any questions pertaining to this approval or if we may be of further service, please feel free to contact us at the phone number and/or address listed on this letterhead.

Sincerely,

Tricia Angoli  
On-Site Wastewater Engineering

Enclosures

## North Carolina Residential Wastewater Treatment System Approval

**Issued To:** Consolidated Waste Treatment Systems  
1501 Commerce Center Dr  
Franklin, OH 45005

**For:** Enviro-Guard Model ENV-0.75  
Multi-Flo Model FTB Series  
Nayadic Model M-6A Series

**Date:** August 10, 2007

### I. Approved Models

Residential wastewater treatment systems shall be manufactured as per the approved drawings (attached), 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:

#### Enviro-Guard

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
ENV-0.75	750 gpd	RWTS-37

#### Multi-Flo

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
FTB-0.5	500 gpd	RWTS-25
FTB-0.6	600 gpd	RWTS-29
FTB-0.75	750 gpd	RWTS-30
FTB-1.0	1,000 gpd	RWTS-31

#### Nayadic

<u>Model Number</u>	<u>Approved Daily Design Flow Rate</u>	<u>RWTS Number</u>
M-6A	500 gpd	RWTS-24

### II. Approved Settling Tanks

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

#### Enviro-Guard

<u>Model Number</u>	<u>Approved Settling Tank</u>
ENV-0.75	Integral part of tank, minimum capacity of 490 gallons as per approved plans

1642 Mail Service Center, Raleigh, North Carolina 27699-1642  
Phone (919) 715-3272 / Fax (919) 715-3227

An Equal Opportunity / Affirmative Action Employer

One  
North Carolina  
*Naturally*

Multi-Flo

<u>Model Number</u>	<u>Approved Settling Tank</u>
FTB-0.5	Separate state approved settling tank with a minimum capacity of 250 gallons
FTB-0.6	Separate state approved settling tank with a minimum capacity of 300 gallons
FTB-0.75	Separate state approved settling tank with a minimum capacity of 375 gallons
FTB-1.0	Separate state approved settling tank with a minimum capacity of 500 gallons

Nayadic

<u>Model Number</u>	<u>Approved Settling Tank</u>
M-6A	Separate state approved settling tank with a minimum capacity of 250 gallons

III. Influent and Effluent Sampling

Influent samples shall be taken from the outlet pipe of the settling tank prior to the treatment unit for the Nayadic and Multi-Flo models. Influent samples shall be taken near the outlet pipe located in the trash tank for the Enviro-Guard models. Influent samples shall be tested for BOD and TKN.

Effluent samples shall be taken from dosing tank for systems with a final pump tank. For systems with gravity fall to the soil absorption system, the effluent sample shall be taken from a sampling port located between the treatment unit and the soil absorption system. 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 CIN1 Series Controls shall take the flow readings for all three models.

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, Consolidated Waste Treatment Systems shall provide for the ongoing operation and maintenance of their systems. Consolidated Waste Treatment Systems 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, Consolidated Waste Treatment Systems shall provide an optional renewable yearly operation and maintenance contract with the owner that meets the requirements of 15A NCAC 18A .1961.

The ORC must either work for Consolidated Waste Treatment Systems, be an authorized representative of Consolidated Waste Treatment Systems, or be authorized in writing by Consolidated Waste Treatment Systems 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.