

**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: SludgeHammer Group, Ltd
4772 US 131 South, Building D
Petoskey, MI 49770

Contact Name: Ryan Zaremba
231-348-5866

For: SludgeHammer Models S-400, S-600, S-800, and S-1000

Date: July 1, 2025

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 18E Section .1500.

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

<u>Model Number</u>	<u>Approved Design Daily Flow Rate</u>	<u>RWTS Number</u>
S-400	400 gpd	RWTS-111
S-600	600 gpd	RWTS-112
S-800	800 gpd	RWTS-113
S-1000	1,000 gpd	RWTS-114

II. Approved Settling Tanks

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

<u>Model Numbers</u>	<u>Approved Settling Tank</u>
S-400	State approved 1,500 gallon septic tank
S-600	State approved 2,000 gallon septic tank
S-800	State approved 2,500 gallon septic tank
S-1000	State approved 3,000 gallon septic tank

III. Effluent Sampling

Effluent samples shall be taken in accordance with one of the following methods: pump systems shall have an effluent sample taken from the pump tank; and gravity systems shall pull an effluent sample from the second compartment of the septic tank, at the outlet end.

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 18E .1302.

IV. Flow Monitoring

Flow monitoring shall include a determination of the 7-day and 30-day flow for the corresponding time period preceding each operator inspection/sample collection.

Where effluent flows by gravity to the receiving environment, a flow meter shall be installed on the inlet water line or the inlet line from the well depending on the water source.

For installations where effluent is under pressure, flows shall be determined by using an elapsed time meter in the effluent pumping station control panel. The control panel shall meet the requirements of 15A NCAC 18E .1103.

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 operator must be a licensed subsurface operator.

For all systems, SludgeHammer Group, Ltd. shall provide for the ongoing operation and maintenance of their systems. SludgeHammer Group, Ltd. shall make available to the owner an operation and maintenance contract that meets the requirements of 15A NCAC 18E .1303(b). The contract shall be renewable, and the contract term shall be for a minimum of one year.

The operator must either work for SludgeHammer Group, Ltd., be an authorized representative of SludgeHammer Group, Ltd., or be authorized in writing by SludgeHammer Group, Ltd. or their authorized representative to operate the system.

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

- a. The system approval shall be modified as necessary to comply with subsequent changes in the laws or rules which affect their approval.
- b. The approval of a system may be modified, suspended, or revoked upon a finding that:
 1. the system or component fails to perform in compliance with performance standards established for the system; or
 2. the system, component, or the system applicant fails to comply with wastewater system laws, rules, or conditions of the approval.