

TABLE III
Product Performance Requirements for Proprietary Treatment Products

Treatment Component/Sequence Category	Product Performance Requirements					
<p>Category 1 Designed to treat sewage with strength typical of a residential source when septic tank effluent is anticipated to be equal to or less than treatment level E.</p>	Treatment System Performance Testing Levels					
	Level	Parameters				
		CBOD₅ (mg/L)	TSS (mg/L)	O&G (mg/L)	FC (#/100 ml)	TN (mg/L)
	A	10	10	----	200	----
	B	15	15	----	1,000	----
	C	25	30	----	50,000	----
	D	25	30	----	----	----
	E	125	80	20	----	----
	N	----	----	----	----	20
	<p>Values for Levels A - D are 30-day values (averages for CBOD₅, TSS, and geometric mean for FC.) All 30-day averages throughout the test period must meet these values in order to be registered at these levels. Values for Levels E and N are derived from full test averages.</p>					
<p>Category 2 Designed to treat high-strength sewage when septic tank effluent is anticipated to be greater than treatment level E.</p> <p>(Such as at restaurants, grocery stores, mini-marts, group homes, medical clinics, residences, etc.)</p>	<p>All of the following requirements must be met:</p> <p>(1) All full test averages must meet Level E; and (2) Establish the treatment capacity of the product tested in pounds per day for CBOD₅.</p>					
<p>Category 3 Black water component of residential sewage (such as composting and incinerating toilets).</p>	<p>Test results must meet the performance requirements established in the NSF test protocol.</p>					
<p>Total Nitrogen Reduction in Categories 1 & 2 (Above)</p>	<p>Test results must establish product performance effluent quality meeting Level N, when presented as the full test average.</p>					

(4) Manufacturers verifying product performance through testing according to the following standards or protocols shall have product testing conducted by a testing facility meeting the requirements established by the Testing Organization and Verification Organization, consistent with the test protocol and plan.

(a) EPA/NSF--Protocol for the Verification of Wastewater Treatment Technologies; or

- (D) Nitrogen contributions. Where nitrogen has been identified as a contaminant of concern by the local management plan required in WAC 246-272A-0015, it shall be addressed through lot size and/or treatment.
- (ii) For OSS treating sewage from a nonresidential source, the designer shall provide the following information:
 - (A) Information to show the sewage is not industrial wastewater;
 - (B) Information regarding the sewage quality and identifying chemicals found in the sewage that are not found in sewage from a residential source; and
 - (C) A site-specific design providing the treatment level equal to that required of sewage from a residential source;
- (f) The vertical separation to be used to establish the treatment levels and application rates. The selected vertical separation shall be used consistently throughout the design process.
- (g) Treatment levels:
 - (i) Requirements for matching treatment component and method of distribution with soil conditions of the soil dispersal component are listed in Table VI. The treatment levels correspond with those established for treatment components under the product performance testing requirements in Table III of WAC 246-272A-0110. The method of distribution applies to the soil dispersal component.

TABLE VI
Treatment Component Performance Levels and Method of Distribution¹

Vertical Separation in inches	Soil Type		
	1	2	3-6
12 < 18	A - pressure with timed dosing	B - pressure with timed dosing	B - pressure with timed dosing
≥ 18 < 24	B - pressure with timed dosing	B - pressure with timed dosing	B - pressure with timed dosing
≥ 24 < 36	B - pressure with timed dosing	C - pressure	E - pressure
≥ 36 < 60	B - pressure with timed dosing	E - pressure	E - gravity
≥ 60	C - pressure	E - gravity	E - gravity

¹The treatment component performance levels correspond with those established for treatment components under the product testing requirements in WAC 246-272A-0110.

- (ii) Disinfection may not be used to achieve the fecal coliform requirements to meet:
 - (A) Treatment levels A or B in Type 1 soils; or
 - (B) Treatment level C.
- (3) The coarsest textured soil within the vertical separation selected by the designer shall determine the minimum treatment level and method of distribution.
- (4) The local health officer shall not approve designs for: