

Attachment 1

Manufactured Treatment Device (MTD) Registration

1. Manufactured Treatment Device Name: StormTank Module Debris Row

2. Company Name: Brentwood Industries

Mailing Address: 500 Spring Ridge Drive

City: Reading

State: PA Zip: 19610

3. Contact Name (to whom questions should be addressed): Dylan Faircloth

Mailing Address: 500 Spring Ridge Drive

City: Reading

State: PA Zip: 19610

Phone number: (717) 480-2122

Fax number:

E-mail address: dfaircloth@brentwoodindustries.com

Web address: www.brentwoodindustries.com

4. Technology

Specific size/capacity of MTD assessed (include units):

Range of drainage areas served by MTD (acres):

Include sizing chart or describe sizing criteria: Sized based on inflow pipe diameter, see attached

Intended application: on-line or offline: On-Line

Media used (if applicable): N/A

5. Warranty Information (describe, or provide web address):

Standard Warranty for manufacturing and defects of volumetric product,

www.brentwoodindustries.com

6. Treatment Type

Hydrodynamic Structure

Filtering Structure

Manufactured Bioretention System

Provide Infiltration Rate (in/hr):

Other (describe): Built in sedimentation removal for underground volumetric storage

7. Water Quality Treatment Mechanisms (check all that apply)

- Sedimentation/settling
- Infiltration
- Filtration (specify filter media)
- Adsorption/cation exchange
- Chelating/precipitation
- Chemical treatment
- Biological uptake
- Other (describe): Separation by passing runoff through geotextile fabric

8. Performance Testing and Certification (check all that apply):

Performance Claim (include removal efficiencies for treated pollutants, flow criteria, drainage area):

Specific size/Capacity of MTD assessed:

Has the MTD been "approved" by an established granting agency, e.g. New Jersey Department of Environmental Protection (NJDEP) , Washington State Department of Ecology, etc.

- No**
- Yes**; For each approval, indicate (1) the granting agency, (2) use level if awarded (3) the protocol version under which performance testing occurred (if applicable), and (4) the date of award, and attach award letter.

Was an established testing protocol followed?

- No**
- Yes**, (1) Provide name of testing protocol followed, (2) list any protocol deviations:

Provide the information below and provide a performance report (attach report):

For lab tests:

- i. Summarize the specific settings for each test run (flow rates, run times, loading rates) and performance for each run: See Attached Report
- ii. If a synthetic sediment product was used, include information about the particle size distribution of the test material: See Attached Report
- iii. If less than full-scale setup was tested, describe the ratio of that tested to the full-scale MTD: N/A

For field tests:

- i. Provide the address, average annual rainfall and characterized rainfall pattern, and the average annual number of storms for the field-test location: N/A
- ii. Provide the total contributing drainage area for the test site, percent of impervious

- area in the drainage area, and percentages of land uses within the drainage area (acres): N/A
- iii. Describe pretreatment, bypass conditions, or other special circumstances at the test site: N/A
 - iv. Provide the number of storms monitored and describe the monitored storm events (amount of precipitation, duration, etc.): N/A
 - v. Describe whether or not monitoring examined seasonal variation in MTD performance: N/A
 - vi. If particle size distribution was determined for monitored runoff and/or sediment collected by the MTD, provide this information: N/A

9. MTD History:

How long has this specific model/design been on the market? Debris Rows have been installed for 2 year in our 8 year old product

List no more than three locations where the assessed model size(s) has/have been installed in Virginia. If applicable, provide permitting authority. If known, provide latitude & longitude: N/A

List no more than three locations where the assessed model size(s) has/have been installed outside of Virginia. If applicable, provide permitting authority. If known, provide latitude & longitude: N/A

10. Maintenance:

What is the generic inspection and maintenance plan/procedure? (attach necessary documents): Visual inspection through observation ports.

Is there a maintenance track record/history that can be documented?

No, no track record.

Yes, track record exists; (provide maintenance track record, location, and sizing of three to five MTDs installed in Virginia [preferred] or elsewhere): N/A

Recognizing that maintenance is an integral function of the MTD, provide the following: amount of runoff treated, the water quality of the runoff, and what is the expected maintenance frequency for this MTD in Virginia, per year? Row is sized based on inflow size to handle all flows, bypassing high flows through a mass solid retention structure. Maintenance will vary by site but should be determine by routine inspection. If material has accumulated more than 3-6", it needs removed.

Total life expectancy of MTD when properly operated in Virginia and, if relevant, life expectancy of media: 50 years with proper installation and maintenance

For media or amendments functioning based on cation exchange or adsorption, how long will the media last before breakthrough (indicator capacity is nearly reached) occurs?
N/A

For media or amendments functioning based on cation exchange or adsorption, how has the longevity of the media or amendments been quantified prior to breakthrough (attach necessary performance data or documents)? N/A

Is the maintenance procedure and/or are materials/components proprietary?

- Yes, proprietary
 No, not proprietary

Maintenance complexity (check all that apply):

- Confined space training required for maintenance
 Liquid pumping and transportation

Specify method:

- Solids removal and disposal

Specify method: Vacuum truck

Other noteworthy maintenance parameter (describe):

11. Comments

Include any additional explanations or comments:

12. Certification

Signed by the company president or responsible officer of the organization:

“I certify that all information submitted is to the best of my knowledge and belief true, accurate, and complete.”

Signature: Jason Bailey

Name: Jason Bailey

Title: Product Line Manager

Date: 10/20/15

NOTE: All information submitted to the department will be made publically accessible to all interested parties. This MTD registration form will be posted on the Virginia Stormwater BMP Clearinghouse website.