



Rhode Island Alternative Stormwater Technology Certification

Vendor Contact:

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Technology Name:

Stormceptor© Stormwater Treatment System (Specific models attached)

Approval Type:

Pretreatment/Retrofits
LUPPHL (conditional)

Certification Dates:

Issued: February 5, 2016
Expires: February 5, 2021

The Technology Review Team which consists of members from the Department of Environmental Management (DEM), and the Coastal Resources Management Council (CRMC) have reviewed the Stormceptor© Application to for Technology Approval and accepted use for Stormwater Treatment in the State of Rhode Island.

In accordance with Section 3.2.3 of the Rhode Island Stormwater Design and Installation Standards Manual (RISDISM) amended March 2015, Rinker Material has petitioned the permitting agencies to add this technology to the list of acceptable structural stormwater controls described in Chapter 6 – Pretreatment Practices. The applicant has submitted monitoring results and supporting information developed in accordance with the provisions of the Technology Assessment Protocol (TAPE and TARP) included in Appendix J of the RISDISM.

The Stormceptor© system is a pretreatment or retrofit device that captures both TSS and free oil (TPH) from stormwater runoff. The Stormceptor© is a vertically oriented cylindrical structure manufactured from pre-cast reinforced concrete and fiber reinforced plastic, designed to remove hydrocarbons and sediment from stormwater. This unit is approved for **in-line** as well as **off-line** use.

The manufacturer has demonstrated that this product meets the minimum water quality standards for pretreatment. It is approved for the following pollutant removals; **75% TSS. The Stormceptor is NOT recognized for removal of Pathogens, Total Phosphorus or, Nitrogen.** This device may be used as an **Oil and Grit Separator** for use on **LUHPPL sites** in accordance with section 6.6.2 of the Rhode Island Designs and Installations Standards Manual provided the following conditions are met.

I. GENERAL CERTIFICATION REQUIREMENTS

1. The STC devices listed Appendix F – “Summary Table of Stormceptor© Models” are **certified as pretreatment devices** in Rhode Island provided the device treats the flow of the first inch of runoff from the capture area unless waived by the state permitting agency.
2. The EOS 12-590 and the STC 2400 or greater models meet (**LUHPPL**) minimum requirements for sites that are classified as **LUHPPLS or MSGPs** that are required to have an oil and water separator. These models meet the minimum 500 gallon hydrocarbon storage capacity required for pretreatment.
3. The applicant must provide the RI specific manufacturers design sheet for Departmental review or provide the manufacturer’s review approval. All units that capture greater than one acre of impervious cover must be reviewed by the manufacturer.

4. This device is **certified as a retrofit device** in accordance with Section 1.2 and Appendix C of the RISDISM. Retrofits are allowed flexibility with regards to the standards in the RISDISM, but in general they are considered effective if they capture at least 50% of the catchment, and meet the target water quality treatment of at least the first 0.5 inches of the water quality volume.
5. The approved devices shall be located such that they are accessible for maintenance and/or emergency removal of oil or chemical spills.

II. MAINTENANCE REQUIREMENTS

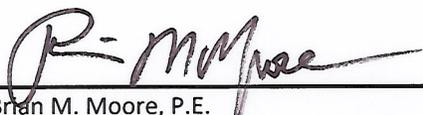
1. The device must be maintained in accordance with the manufacturer's specifications and before the sediment capacity exceeds 15%.
2. The device must be maintained by a manufacturer's recognized vendor, a licensed waste hauler, or a municipal employee trained to operate a vacuum truck.
3. All material removed from the unit must be properly disposed of and is the responsibility of the owner.

III. REPORTING REQUIREMENTS

1. The Vendor shall provide a listing with Latitude and Longitude of the site center point to the RIDEM Office of Water Resources of all systems within the State of Rhode Island on an annual basis.

IV. RIGHTS OF THE RIDEM AND CRMC

1. The RIDEM may suspend, modify or revoke this approval for cause, including but not limited to: non-compliance with any of the conditions or provisions of this approval, misrepresentation or failure to fully disclose all relevant data, or receipt of new information indicating that the use of the System is contrary to the public interest, public health or the environment.
2. This approval does not represent an endorsement of the System by the RIDEM. This letter of approval may be reproduced only in its entirety.



Brian M. Moore, P.E.
Chief, Groundwater and Wetlands Protection



Date

ATTACHMENT

Summary Table of Stormceptor Models

Stormceptor Model	Total Storage Volume U.S. Gal (L)	Hydrocarbon Storage Capacity U.S. Gal (L)	Max. Sediment Capacity ft ³ (L)	Water Quality Flow (cfs)	* Approx. Impervious Area (Ac)
STC 450i	470 (1,780)	86 (330)	46 (1,302)	0.283	0.38
STC 900	952 (3,600)	251 (950)	89 (2,520)	0.636	0.85
STC 1200	1,234 (4,670)	251 (950)	127 (3,596)	0.636	0.85
STC 1800	1,833 (6,940)	251 (950)	207 (5,861)	0.636	0.85
EOS 12-590	1,833 (6,940)	590 (2,233)	166 (4,707)	0.636	0.85
STC 2400	2,462 (9,320)	840 (3,180)	205 (5,805)	1.059	1.42
STC 3600	3,715 (1,406)	840 (3,180)	373 (10,562)	1.059	1.42
STC 4800	5,059 (1,950)	909 (3,440)	543 (15,376)	1.766	2.38
STC 6000	6,136 (23,230)	909 (3,440)	687 (19,453)	1.766	2.38
STC 7200	7,420 (28,090)	1,059 (4,010)	839 (23,757)	2.472	3.33
STC 11000	11,194 (42,370)	2,797 (10,590)	1,086 (30,752)	3.531	4.75
STC 13000	13,348 (50,530)	2,797 (10,590)	1,374 (38,907)	3.531	4.75
STC 16000	15,918 (60,260)	3,055 (11,560)	1,677 (47,487)	4.944	6.66

* Impervious areas are approximate only. Actual areas will vary based on site-specific conditions.