



ENVIRONMENTAL SERVICES CITY OF PORTLAND

working for clean rivers



Approved Manufactured Stormwater Treatment Technologies (MSTTs)

August 30, 2018

The City of Portland has approved the 5 manufactured stormwater treatment technologies listed below. Designers may use these technologies to meet Portland's water quality treatment standard under the Performance Approach, as outlined in the SWMM. The listed technologies have been through Washington's Department of Ecology (DOE) Technology Assessment Protocol (TAPE)¹ program and have received DOE's General Use Level Designation (GULD) for Basic Treatment/TSS removal. Based on that designation and the supporting data, the City of Portland has reviewed and approved the technologies for use in Portland.

Designers should consult the Conditions of Approval for each technology, which apply to both public and private applications. Designers should determine which technology best fits their site conditions, project goals, and long-term maintenance requirements. Not all technologies will be appropriate for every site or project.

For City-owned systems, including projects in the right-of-way, BES approves the selected technology and configuration based on project circumstances and City preferences. BES typically requires pretreatment for City-owned MSTTs.

Manufacturer	Device Name	DOE Treatment Type ²	Conditions
BaySaver Technologies	BayFilter using Enhanced Media Cartridges (EMC)	Basic Treatment Phosphorus Treatment	Conditions of Approval
Contech Engineered Solutions, LLC	Filtterra Bioretention Systems	Basic Treatment Enhanced Treatment Phosphorus Treatment Oil Treatment	Conditions of Approval.
Contech Engineered Solutions, LLC	StormFilter with ZPG Media	Basic Treatment	Conditions of Approval

¹ [Washington DOE Emerging Technologies Website](#)

² The Portland SWMM regulates only for TSS removal, which is met by the WA DOE standard for Basic Treatment. Other treatment designations approved by WA DOE are included for reference only.

Manufacturer	Device Name	DOE Treatment Type ²	Conditions
Contech Engineered Solutions, LLC	StormFilter with PhosphoSorb Media	Basic Treatment Phosphorus Treatment	Conditions of Approval
Modular Wetland Systems	MWS Linear	Basic Treatment Enhanced Treatment Phosphorus Treatment	Conditions of Approval.
Oldcastle Stormwater Solutions	PerkFilter Media Filtration Device (using ZPC Filter Media)	Basic Treatment Phosphorus Treatment	Conditions of Approval