



ENVIRONMENTAL SERVICES CITY OF PORTLAND

working for clean rivers



Approved Manufactured Stormwater Treatment Technologies (MSTTs)

February 25, 2019

The City of Portland has approved the 7 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 Infrastructure | BioPod Biofilter System with StormMix Media | Basic Treatment Enhanced Treatment Phosphorus Treatment | Conditions of Approval |
| Oldcastle Infrastructure | PerkFilter Media Filtration Device (using ZPC Filter Media) | Basic Treatment Phosphorus Treatment | Conditions of Approval |