FocalPoint Biofiltration Provides Efficient Stormwater Treat and Release Retrofit

Hart Brook Restoration Project, Lewiston, ME

3" Layer of Shredded Hardwood Mulch:
Pre-treatment mechanism. Removal and Replacement of Mulch Represents the Bulk of System Maintenance.

6" Bridging Stone & Separation Layer:
Clog Proof Clean Stone & Micro-Mesh Replace Traditional Geotextile Layer.
No geotextile = no clogging.

18" High Performance Media:
Flows at 100" Per Hour, Resistant to Clogging.

Pollutant Removal:
TSS = 91%
Nitrogen = 48%
Phosphorus = 66%

High Performance Underdrain:
9.45" Modular Tank, or "Flat Pipe" w/95% Void Space. Collects Water Efficiently. Optional 2" Low-Profile Panel Addresses Shallow Applicationsexpand into Modular Tanks for Larger Storage Needs.

18" High Performance Media

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The FocalPoint footprint was excavated and a stone base was placed at the required elevations.

Three FocalPoint BioFilters were constructed to handle the regulatory Water Quality Volume (WQV). All three followed the following construction sequence.

Geotextile and then High Performance Underdrain is Placed: 9.45" Modular Tank w/95% Void Space.

The outlet pipe from the underdrain was tied into existing runoff infrastructure in this typical "treat and release" application.

Quality Assurance / Quality Control (QA/QC):
All Components of the FocalPoint System are sold as a bundle to provide raw material quality control.
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Mesh and Bridging Stone Layer are Placed
Clean Stone and Micro-Mesh Replace traditional Geotextile Separation Layer

No Geotextile = No Clogging

Placement of High-Flow Media Begins

QA/QC Provides Media Certification

Mulch is placed from super-sack and the FocalPoint BioFilter is ready for plantings and activation.

Completed 91 sq ft FocalPoint Biofiltration System

Completed FocalPoint Biofiltration Systems

FocalPoint Maintenance Manual:
Provides Comprehensive Guidance & Record Keeping Tools. 1st Year of Maintenance Included!

Pick Up Trash
Remove & Replace Mulch
Clean Sediment Entry Points

Owner: City of Lewiston
Contractor: Pratt and Sons, Inc.

ACF’s Engineering team can provide project specific support or you can access the tools below:

- Specifications
- Calculator
- CAD Details
- Flow Rate & Pollutant Removal Documentation
- Media Certification
- Installation & Maintenance Manuals
- Performance Guarantee
- And More!

pollutant removal:
* TSS = 91%  * Nitrogen = 48%  * Phosphorus = 66%

18” High Performance Media:
- Flows at 100” Per Hour / 200 foot per day
- Resistant to clogging
- Flows faster with age as root system grows

High-Flow Media in Place

QA/QC Provides Media Certification

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