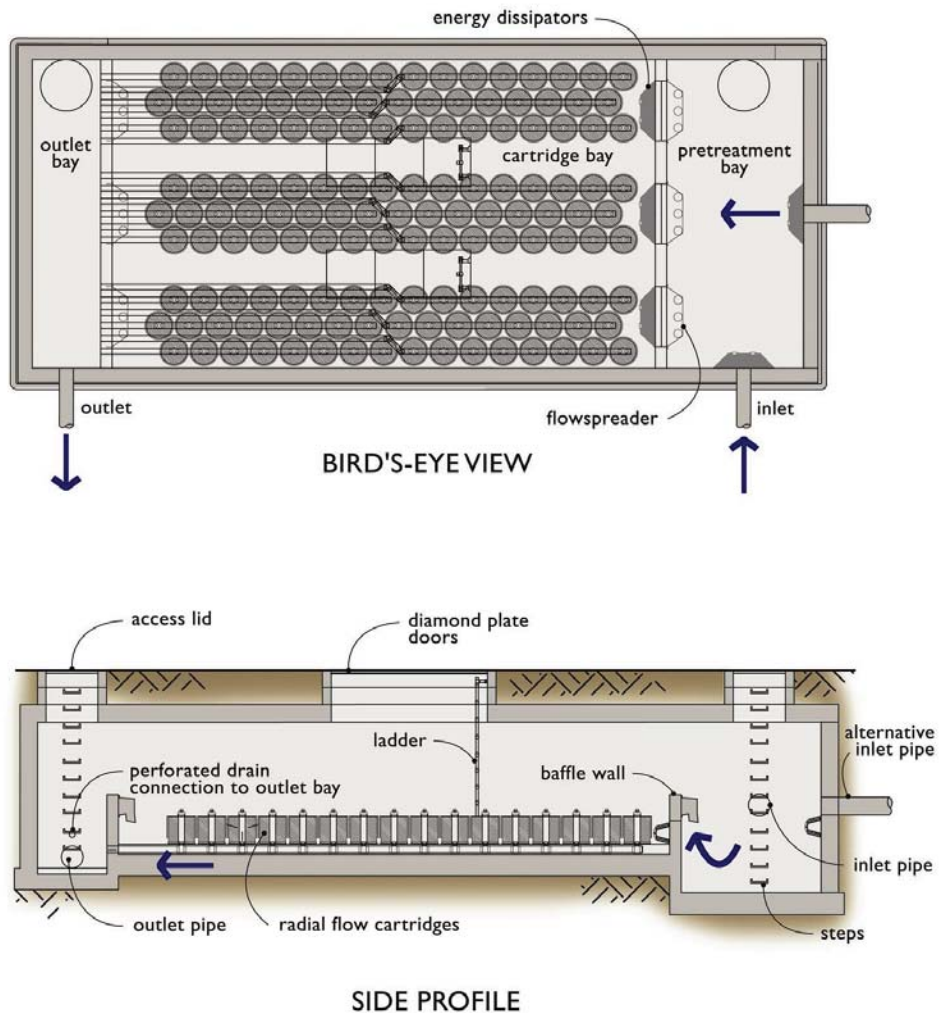


### 3.15 Stormfilter® Cast-In-Place, Precast, Linear Stormfilter and Catch Basin Units

This media filter technology has been under development in the Pacific Northwest since the early 1990s. During the early stages of development, leaf compost was used in fixed beds, replacing sand. Continued development of this technology is based on placing the media in filter cartridges (vertical media filters) instead of fixed beds.

The filter media can be housed in cartridge filters enclosed in concrete vaults or catch basin like structures. Assortments of filter media types are available from the manufacturer. The system functions by routing the stormwater through the filtering medium, which traps particulates and/or soluble pollutants.

Stormfilter® units are a proprietary manufactured system. See manufacturer's publications for additional maintenance information.



# Stormfilter® Cast-In-Place, Precast, Linear Stormfilter Units and Catch Basin Units Checklist

Frequency	Drainage System Feature	Date				Problem	Conditions to Check For	Conditions That Should Exist
		✓	✓	✓	✓			
M	Media filter vault					Sediment accumulation on top of filter cartridges	Sediment accumulation exceeds 0.25 inches on top of cartridges.	No sediment deposits on top of cartridges. Sediment on cartridges likely indicates that cartridges are plugged and require maintenance.
M	Media filter vault					Sediment accumulation in vault	Sediment accumulation in vault exceeds 2 inches. Look for other indicators of clogged cartridges or overflow.	Sediment in vault should be removed. Cartridges should be checked and replaced or serviced as needed.
M	Media filter vault					Trash and floatable debris accumulation	Trash and floatable debris accumulation in vault.	No trash or other floatable debris in filter vault.
S	Media filter vault					Filter cartridges submerged	Filter vault does not drain within 24 hours following storm. Look for evidence of submergence due to backwater or excessive hydrocarbon loading.	Filter media checked and replaced if needed. If cartridges are plugged with oil additional treatment or source control BMP may be needed.
M	Forebay					Sediment accumulation	Sediment accumulation exceeds 6 inches or 1/3 of available sump.	Sediment accumulation less than 6 inches.
M	Forebay					Trash and floatable debris accumulation	Trash and/or floatable debris accumulation.	Trash and/or floatable debris should be removed during monthly inspections. Significant oil accumulation may indicate the need for additional treatment or source control.
A	Below ground vault					Access cover Damaged/ Not working	One maintenance person cannot remove lid after applying 80 pounds of lift, corrosion or deformation of cover.	Cover repaired to proper working specifications or replaced.
A	Below ground vault					Damaged Pipes	Any part of the pipes are crushed or damaged due to corrosion and/or settlement.	Pipe repaired or replaced.
A	Below ground vault					Vault structure has cracks in wall, bottom, and damage to frame and/or top slab.	Cracks wider than ½ inch or evidence of soil particles entering the structure through the cracks, or maintenance/inspection personnel determine that the vault is not structurally sound.	Vault repaired or replaced so that vaults meets design specifications and is structurally sound.
A	Below ground vault					Vault structure has cracks in wall, bottom, and damage to frame and/or top slab.	Cracks wider than 0.5 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks	Vault repaired so that no cracks exist wider than 0.25 inch at the joint of inlet/outlet pipe.

## Stormfilter® Cast-In-Place, Precast, Linear Stormfilter Units and Catch Basin Units Checklist (Continued)

Frequency	Drainage System Feature	Date				Problem	Conditions to Check For	Conditions That Should Exist
		✓	✓	✓	✓			
A	Below ground vault					Baffles	Baffles corroding, cracking, warping, and/or showing signs of failure as determined by maintenance/inspection person.	Baffles repaired or replaced to design specifications.
A	Below ground vault					Ladder rungs unsafe	Maintenance person judges that ladder is unsafe due to missing rungs, misalignment, rust, or cracks. Ladder must be fixed or secured immediately.	Ladder meets design standards and allows maintenance persons safe access.

If you are unsure whether a problem exists, please contact a Professional Engineer.

Comments:

Key:

- (M) Monthly from November through April.
- (A) Once in late summer (preferable September)
- (S) After any major storm (use 1-inch in 24 hours as a guideline).