Uses and Limitations of Proprietary BMPs

Proprietary BMPs can be used for the following applications:

➢ **Pretreatment.** Proprietary BMPs may provide pretreatment for stormwater before discharging to another structural stormwater BMP. Chapter 13 - Structural Stormwater BMP Design Guidance provides design guidance for proprietary BMPs when used as pretreatment. Proprietary BMPs should meet all of the following criteria to qualify as acceptable for pretreatment:

    o Remove a minimum of 50% TSS, based on pollutant concentrations or loads, as verified by a recommended independent third-party stormwater BMP performance verification program (refer to the Third-Party Performance Verification section for recommended programs)

    o Be designed per the manufacturer's recommendations

- o Be designed as off-line systems or have an internal bypass to avoid large flows and resuspension of pollutants

- o If designed in an on-line configuration, proprietary pretreatment devices should be designed in accordance with the manufacturer's recommendations and any applicable use limitations upon which the third-party performance certification are based.

➢ **Treatment.** Proprietary BMPs may be used as stand-alone treatment systems to provide additional stormwater treatment (without retention) credit toward Standard 1 – Runoff Volume and Pollutant Reduction (Chapter 4 - Stormwater Management Standards and Performance Criteria). Proprietary BMPs cannot be used to meet the retention requirements of Standard 1 since they do not provide infiltration or runoff reduction. Proprietary BMPs should meet all of the following criteria to qualify as acceptable for treatment:

- o Remove a minimum of 80% TSS, based on pollutant concentrations or loads, as verified by a recommended independent third-party stormwater BMP performance verification program (refer to the Third-Party Performance Verification section for recommended programs)

- o Be designed per the manufacturer's recommendations

- o Be sized to treat runoff associated with the Water Quality Volume (WQV) or associated peak flow rate (Water Quality Flow or WQF)

- o Be designed as off-line systems or have an internal bypass to avoid flows in excess of the WQF and resuspension of pollutants

- o If designed in an on-line configuration, proprietary pretreatment devices should be designed in accordance with the manufacturer's recommendations and any applicable use limitations upon which the third-party performance certification are based.