

Pollutant Load Reductions for Upland Best Management Practices

Pollutant load reductions for upland BMPs are based on the pollutant removal efficiencies recommended by the CBP. In order for MS4 jurisdictions to address permit conditions, restoration activities and reporting need to be consistent with CBP recommendations. BMP pollutant removal performance is determined using the CBP approved publication, Recommendations of the Expert Panel to Define Removal Rates for New State Stormwater Performance Standards (Schueler and Lane, 2012 and 2015). This report offers a series of pollutant removal adjutor curves (see Appendix A) for BMPs that are classified as runoff reduction (RR) and stormwater treatment (ST) to determine nutrient and sediment load reductions. Table 2 provides a list of upland BMPs, identifying each as RR or ST.

Table 2. Stormwater BMPs for Upland Applications

Runoff Reduction (RR) Practices		Stormwater Treatment (ST) Practices	
Manual Reference	Practice	Manual Reference	Practice
Infiltration		Ponds	
M-3	Landscape Infiltration	P-1	Micro-Pool Extended Detention (ED)
M-4	Infiltration Berm	P-2	Wet Pond
M-5	Dry Well	P-3	Wet ED Pond
Filtering Systems¹		P-4	Multiple Pond
F-6	Bioretention	P-5	Pocket Pond
M-2	Submerged Gravel Wetland	Wetlands²	
M-6	Micro-Bioretention	W-1	Shallow Wetland
M-7	Rain Garden	W-2	ED Shallow Wetland
M-9	Enhanced Filter	W-3	Pond/Wetland System
Open Channel Systems		W-4	Pocket Wetland
O-1	Dry Swale	Infiltration²	
M-8	Grass Swale	I-1	Infiltration Trench
M-8	Bio-Swale	I-2	Infiltration Basin
M-8	Wet Swale	Filtering Systems	
Alternative Surfaces		F-1	Surface Sand Filter
A-1	Green Roof	F-2	Underground Filter
A-2	Permeable Pavement	F-3	Perimeter Filter
A-3	Reinforced Turf	F-4	Organic Filter
Other Systems		F-5	Pocket Filter
M-1	Rainwater Harvesting		
Notes: ¹ A dry channel regenerative step pool stormwater conveyance system is considered a stormwater retrofit by the CBP Stream Restoration Expert Panel. This practice may use the BMP code SPSP and use the same pollutant load reductions as a filtering practice. The impervious area draining to these practices may be considered treated in accordance with the design rainfall depth treated (P_E) for crediting purposes. ² Stormwater wetlands, infiltration trenches, and infiltration basins are ST practices unless designed according to Section VI.			