

BMP Estimated Pollutant Removal

Drainage Area To BMPs	Drainage Area (sf)	Average Percent of Rainfall on Impervious Areas Becoming Runoff*	Assumed BMP Rainfall Capture (in.)	Volume Removed (cf)	Rainfall 1-Year Storm Event (in.)	1 Year Storm Event Runoff Reduction	Average Annual Runoff (cf)	Average Annual Runoff Removed (cf)	Estimated Annual Runoff Reduction** (MG/yr)
Roof Area & Parking Lot	389,659	85%	0.11	3540	2	6%	1,406,020	77,331	0.578

*This percentage is an estimate based on average runoff for similar projects.

**The estimated annual runoff reduction is based on the the storm event runoff reduction applied to the average annual rainfall amount

Pollutants	Average Stormwater concentration* (mg/L)	Average Stormwater Concentration* (lbs/gallon)	Total Estimated Pollutant Reduction to stream (lb/yr)
Total Suspended Solids (TSS)	84	7.01E-04	405.5
Total Phosphorus (TP)	1.2	1.00E-05	5.8
Total Nitrogen (TN)	0.7	5.84E-06	3.4

*Based on the midpoint pollutant concentrations in USEPA's CSO Report to Congress, 2001

Rainfall Reference Information from Beckley, WV and Fayette County from the NOAA website

Annual Rainfall (in/yr)	43.3
1 year storm event rainfall	2
Average Rainy Days	154

MG/yr million gallons / year
mg/L milligrams/ Liter