Draft Stormwater Quality BMP Matrix
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All BMP's must meet the design minimums to qualify for the listed runoff retention, TSS treatment of disconnection credit.			and WQV & Disconnection Credit Percentages based on minimum design criteria										_
Type of BMP	ВМР	Runos Recento	Treamen Geoir IL	Oscomection Co.	Apponing to F.	Recommended Com.	Si Holes Chillips	M William May 10 St. 10	Use in Companyate Co.	Use'n Aquilier p.	* Almonimate Car	Anner Are,	is of mems
Simple Disconnection	Qualifying Natural Dispersion / Vegetative Filter Areas	50%	50%	100%	2 Criteria Based on Slope - See One Pager	Limited to 75' of run-on from Impervious Areas (IA)	Any	Х	Х	Х	N/A	Low	Concentrated flow requires use of level spreader prior to beginning of dispersion area
Conveyance	Grass Channel	0%	15%	15%	N/A	< 5 Acres	Any	Х		Х	<\$5,000	Low	Soil amendments can be added to increase infiltration.
	Dry Water Quality Swale (With or Without Underdrain) (No Check Dams)	50%	25%	75%	6 - 10% of DA	< 5 Acres	A, B, C*, D*			X	\$10,000 - \$60,000	Moderate	
	Water Quality Swale (Wet)	N/A	25%	25%	6 - 10% of DA	< 5 Acres	C, D	X		X	\$10,000 - \$60,000	Moderate	
Infiltration or Filtration (w/underdrain)	Infiltration Trench (No Underdrain)	100%	N/A	100%	4-20% of DA	< 5 Acres	А, В				\$45,000	Moderate-High	Footprint size influenced heavily by infiltration rate. *Could add underdrain for locations with poor soils
	Infiltration Basin (No Underdrain)	100%	N/A	100%	4-10% of DA	< 25 Acres	А, В				\$23,000- \$90,000	Moderate-High	Footprint size influenced heavily by infiltration rate
	Dry Well / Leaching Catch Basin	100%	N/A	100%	5-10% of DA	1 Acre or Less	А, В				\$35,000	Low-Moderate	Footprint size influenced heavily by infiltration rate & depth to groundwater
	Permeable Pavement	75%	25%	100%	DA	N/A	А, В				\$20,000 - \$66,000	High	Pervious asphalt typically have lower capital cost than pervious concrete
	Bioretention (No Underdrain)	100%	N/A	100%	5-10% of DA	< 2 Acres	A,B				\$56,000	Moderate-High	
	Sand Filter (with underdrain)	N/A	75%	75%	1-5% of DA	<10 Acres	Any with Underdrain			Х	\$65,000	High	Sand filters should be considered when targeting removal of specific pollutants including nitrogen, phosphorus, sediment, metals and bacteria
Treatment - Wet Ponds / Wetlands Treatment - Proprietary / Structural BMPs	Wet Pond	N/A	50%	50%	2-5% of DA	> 25 Acres	C, D	X		X	\$10,000 - \$25,000	Low - Moderate	A sediment forebay is required. Smaller contributing drainage areas are acceptable if groundwater flow.
	Constructed Shallow Wetland	N/A	50%	50%	5-10% of DA	> 10 Acres	C, D	Х			\$11,000	Moderate	
	Subsurface Gravel Wetland	N/A	75%	75%	10-15% of DA	< 10 Acres	C, D	Х			\$33,000	Moderate	
	Hydrodynamic Separator	N/A	50%	50%	5' - 10' Diameter Manhole	Per Manufacturer	Any		Х	Х	\$10,000 - \$30,000	Low	
	Oil / Grit Separator	N/A	50%	50%	Range from 3'x6' up to 8'x16'	Per Manufacturer	Any		Х	Х	\$10,000 - \$30,000	Low	
	Runoff retention and T. https://www.swbr https://www.njsto	mp.vwrrc.vt.edu/	es based on the VA BMI manual2.htm	https://www3.epa.g. https://www.pca.sto https://pubs.ext.vt.e http://epa.ohio.gov/	Cost Estimates From: ov/region1/npdes/sto. ite.mn.us/sites/defauli du/content/dam/pubs/ (Portals/41/storm woi ov/npdes/pubs/usw a	rmwater/ma/qreen-ii t/files/p-qen3-13x.pd s ext vt edu/426/42i rkshop/lid/CRWP LID	f and adjusted for inf 6-122/426-122 pdf.p	lation at approximate		<u>osts</u>	O&M Cost Categor Low - Less than \$50 Moderate - Betwee High - \$2,500 ac/yr	00 ac/yr n \$1000 - \$2000 ac/yr	