HENRICO COUNTY ENVIRONMENTAL COMPLIANCE MANUAL

WORKSHEET 14.07 - COMPLIANCE

Determine the pollutant removal requirement (RR) as calculated on the appropriate development situation worksheet (Worksheet 3.2, Worksheet 3.3, Worksheet 3.4, or Worksheet 3.5).

	RR	==	pollutant removal requirementlbs/yr
Calcul	ate the polluta	nt loadi	ing to the BMP (L _{ON-SITE}) from on-site areas.
Odiodi	A _{ON-SITE}	=	the contributing on-site drainage area to the BMP
	, ON-SITE	=	acres
	A _{ON-SITE}	MARCO PRESER	the amount of on-site impervious cover in the contributing
			drainage area
			acres
	ON-SITE	=	the percentage of on-site impervious cover for the contributing drainage area to the BMP.
		=	(A _{ON-SITE} / A _{ON-SITE}) x 100
			(/) x 100
		=	%
	Lon-site	1000E	the phosphorus load to the BMP.
	L _{ON-SITE}	=	$[0.05 + (0.009 \times I_{ON-SITE})] \times 2.28 \times A_{ON-SITE}$
			[0.05 + (0.009 x)] x 2.28 x
		==	pounds per year
Calcul	ata tha nalluta	nt laadi	ng to the BMP (L _{OFF-SITE}) from off-site areas.
Calcul	Ale the politica A _{OFF-SITE}	=	the contributing off-site drainage area to the BMP
	↑OFF-SITE	=	acres
	I _{OFF-SITE}	=	16% (16% shall be used for all off-site drainage areas)
	LOFF-SITE	=	the off-site phosphorus load to the BMP.
	COFF-SITE	=	$[0.05 + (0.009 \times I_{OFF-SITE})] \times 2.28 \times A_{OFF-SITE}$
			[0.05 + (0.009 x 16)] x 2.28 x
		=	pounds per year
			pourido por your
Calcula	ate the total po	ollutant	loading to the BMP (L _{TOTAL}).
	LTOTAL	=	Lon-site + Loff-site
		==	+
		=	pounds per year

Calculate the total pollutant load removed by the proposed BMP(s) (L_{REMOVED BY BMP}). Acceptable BMP types and associated removal efficiencies are listed in Section 3.6.1 of this Manual.

HENRICO COUNTY ENVIRONMENTAL COMPLIANCE MANUAL

Selected BMP Type	Removal Efficiency	Х	L _{TOTAL}	=	L _{REMOVED} BY BMP(S) (lbs/yr)
		Χ		=	
		X		=	
		Х		=	
		X		=	
		Х		=	
	TOT	AL L	-REMOVED BY BM	1P(S) -	

For BMPs in series, the L_{TOTAL} treated by the second basin is the L_{TOTAL} from the first basin minus the load removed by the first BMP. When the overall removal efficiency for BMPs in series exceeds 65%, the BMPs will be treated as one BMP with a removal efficiency of 65% on the compliance worksheet.

Calculate the pollutant load removed by the Stream Protection Area (L_{REMOVED BY SPA}) provided. In order to receive pollutant removal credit for the Stream Protection Area (SPA), the SPA must be forested in accordance with Minimum Standard 14.10 and energy dissipators (EDs) provided in accordance with Minimum Standard 14.01.

Stream Protection Area	Linear feet provided	x	Pollutant Removal (lb/yr/ft)		L _{REMOVED BY} SPA (lbs/yr)
		Χ	0.00029	=	

Calculate the pollutant load removed by the energy dissipators (L_{REMOVED BY ED}) provided. In order to receive pollutant removal credit for the energy dissipators (EDs), the SPA must be forested in accordance with Minimum Standard 14.10 and energy dissipators provided in accordance with Minimum Standard 14.01.

Energy Dissipators	Number of Energy Dissipators	Х	Pollutant Removal (lb/yr/ED)		L _{REMOVED} BY ED (lbs/yr)
		Х	0.10	=	

Calculate the total pollutant load removal achieved by the BMP(s), SPA, and EDs (LREMOVED).

L _{REMOVED}	Marine Parkets	LREMOVED BY BMP(S) + LREMOVED BY SPA + LREMOVED BY ED
		++
	=	lbs/yr

If the total pollutant load removed (L_{REMOVED}) is greater than or equal to the pollutant removal requirement (RR), the proposed project complies with the pollutant load reduction criteria.

L _{REMO}	$_{VED} \geq RR$
•	≥