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).

\[ RR = \text{pollutant removal requirement} \]
\[ = \underline{\text{_______ lbs/yr}} \]

Calculate the pollutant loading to the BMP (\( L_{\text{ON-SITE}} \)) from on-site areas.
\[ A_{\text{ON-SITE}} = \text{the contributing on-site drainage area to the BMP} \]
\[ = \underline{\text{______ acres}} \]
\[ A_{\text{ON-SITE}} = \text{the amount of on-site impervious cover in the contributing drainage area} \]
\[ = \underline{\text{______ acres}} \]
\[ I_{\text{ON-SITE}} = \text{the percentage of on-site impervious cover for the contributing drainage area to the BMP.} \]
\[ = \left(\frac{A_{\text{ON-SITE}}}{A_{\text{ON-SITE}}}\right) \times 100 \]
\[ = \left(\frac{\underline{\text{______}}}{\underline{\text{______}}}\right) \times 100 \]
\[ = \underline{\text{______}} \% \]
\[ L_{\text{ON-SITE}} = \text{the phosphorus load to the BMP.} \]
\[ = \left[0.05 + (0.009 \times I_{\text{ON-SITE}})\right] \times 2.28 \times A_{\text{ON-SITE}} \]
\[ = \left[0.05 + (0.009 \times \underline{\text{______}})\right] \times 2.28 \times \underline{\text{______}} \]
\[ = \underline{\text{______ pounds per year}} \]

Calculate the pollutant loading to the BMP (\( L_{\text{OFF-SITE}} \)) from off-site areas.
\[ A_{\text{OFF-SITE}} = \text{the contributing off-site drainage area to the BMP} \]
\[ = \underline{\text{______ acres}} \]
\[ I_{\text{OFF-SITE}} = 16\% \text{ (16\% shall be used for all off-site drainage areas)} \]
\[ L_{\text{OFF-SITE}} = \text{the off-site phosphorus load to the BMP.} \]
\[ = \left[0.05 + (0.009 \times I_{\text{OFF-SITE}})\right] \times 2.28 \times A_{\text{OFF-SITE}} \]
\[ = \left[0.05 + (0.009 \times 16)\right] \times 2.28 \times \underline{\text{______}} \]
\[ = \underline{\text{______ pounds per year}} \]

Calculate the total pollutant loading to the BMP (\( L_{\text{TOTAL}} \)).
\[ L_{\text{TOTAL}} = L_{\text{ON-SITE}} + L_{\text{OFF-SITE}} \]
\[ = \underline{\text{______ + __________}} \]
\[ = \underline{\text{______ pounds per year}} \]

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

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.

Calculate the total pollutant load removal achieved by the BMP(s), SPA, and EDs ($L_{REMOVED}$).

$$L_{REMOVED} = L_{REMOVED \ by \ BMP(s)} + L_{REMOVED \ by \ SPA} + L_{REMOVED \ by \ ED}$$

$$= + +$$

$$\text{lbs/yr}$$

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.

$$L_{REMOVED} \geq RR$$