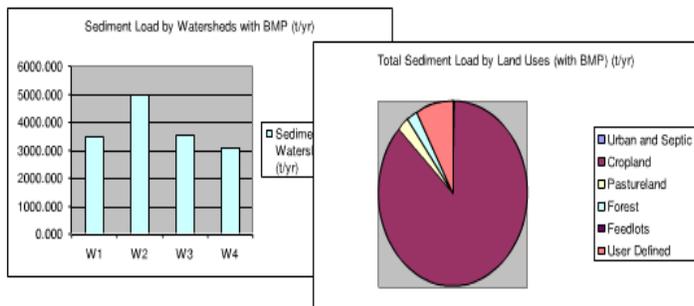


I-LAST FACT SHEET

W-3 Design practices to protect water quality

Rationale: Reducing sedimentation during construction and in areas adjacent to streams during construction can help protect water quality. Best Management Practices (BMPs) established in the Stormwater Pollution Prevention Plans include standard methods, such as silt curtains and silt fence. When special consideration is provided for soils at stream crossings, the temporary impacts of construction can be minimized. Analysis of pollutant loadings in storm water provides information that is valuable in assessing the appropriate combination of storm water management tools.

W-3a Analysis of pollutants in storm water



W-3d Implementation of erosion control practices



Image courtesy of www.epa.gov

Model(s) are utilized to estimate pollutant load reduction from BMPs implemented. (Images courtesy of www.epa.com)

Erosion control practices protect the soil surface and prevent soil particles from being detached by rainfall and wind.

W-3b Stream bank restoration



Enhance or restore stream banks practices are performed to improve water quality.

(Images courtesy of www.ernstseed.com)

W-3e Staging construction to minimize soil exposure

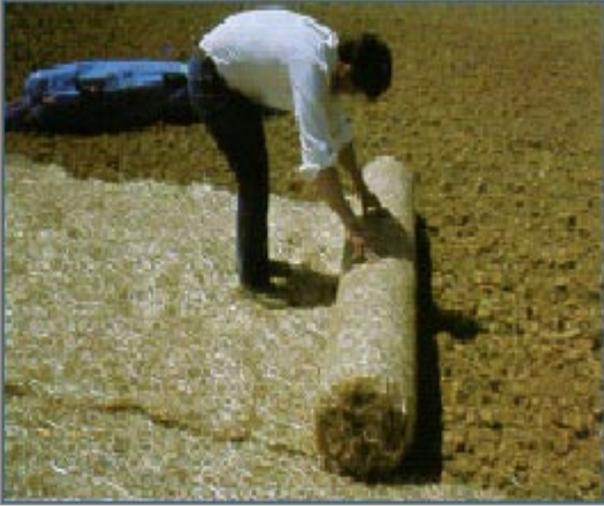


Stabilize a standing area with erosion and sediment control to minimize soil exposure.

(Image courtesy of www.udfcd.org)

I-LAST FACT SHEET
W-3 Design practices to protect water quality

W-3c Practices to protect highly erodible soils



Covering exposed soils during construction phase will protect highly erodible lands. Also, each waterbody crossing should be seeded and erosion control fabric should be installed.

W-3f Provide storm water detention



Stormwater detentions are utilized to store pollutants and allow for stormwater infiltration, vegetative uptake, and natural flocculation.

W-3g Reduce use of fertilizers and herbicides



Reduction of fertilizer and herbicide application in the ROW is beneficial to reducing the amount of pollutants entering in the water system.

W-3h Protection from materials entering waterway on bridge demolition and construction.



Capture of bridge demolition or construction materials before entering waterways will protect water quality and stream habitat.