

EROSION PREVENTION BMP SUGGESTED USES MATRIX

| BMP | Processed Based Tools | Design Software | Design Aids | Slope Protection | Waterway Protection | Surface Protection | Concentrated Flows | Large Flat Areas | Stock Pile Areas | Borrow Areas | Adjacent Property Impacts |
|------------------------------------|-----------------------|-----------------|-------------|------------------|---------------------|--------------------|--------------------|------------------|------------------|--------------|---------------------------|
| Erosion Prevention Measures | | | | X | X | X | X | X | X | X | X |
| Dust Control | NO | NO | NO | | | X | | | | | X |
| Mulching | NO | NO | NO | X | | X | | X | X | X | |
| Blown Straw | NO | NO | NO | X | | X | | X | X | X | |
| Hydro-Mulching | NO | NO | NO | X | | X | | X | X | X | |
| Wood Chips | NO | NO | NO | | | X | | X | X | X | |
| Composting | NO | NO | NO | | | X | | X | X | X | |
| Bonded Fiber Matrix (BFM) | NO | NO | NO | X | | X | | X | X | X | |
| Flexible Growth Media (FGM) | NO | NO | NO | X | | X | | X | X | X | |
| Erosion Control Blankets | YES | YES | NO | X | X | X | X | | X | X | |
| Turf Reinforcement Mats | YES | YES | NO | X | X | X | X | | X | X | |
| Outlet Protection | YES | NO | YES | | X | | X | | | | X |

RUNOFF CONTROL AND CONVEYANCE BMP SUGGESTED USES MATRIX

| BMP | Processed Based Tools | Design Software | Design Aids | Slope Protection | Waterway Protection | Surface Protection | Concentrated Flows | Large Flat Areas | Stock Pile Areas | Borrow Areas | Adjacent Property Impact |
|----------------------------------|-----------------------|-----------------|-------------|------------------|---------------------|--------------------|--------------------|------------------|------------------|--------------|--------------------------|
| Runoff Control Structures | | | | X | X | X | X | X | X | X | X |
| Diversion Ditches/Dikes | YES | YES | NO | X | | X | | | X | X | X |
| Temporary Stream Crossing | YES | YES | NO | | X | X | | | | | X |
| Pipe Slope Drains | YES | YES | NO | X | | X | | | | X | X |
| Construction De-watering | YES | NO | YES | | X | | X | | | | X |
| Drainage Swales | YES | YES | NO | X | | X | | | X | X | X |
| Level Spreader | YES | YES | NO | | | X | | | | | X |
| Subsurface Drains | YES | YES | NO | | | X | | X | | | |

SEDIMENT CONTROL BMP SUGGESTED USES MATRIX

| BMP | Processed Based Tools | Design Software | Design Aids | Slope Protection | Waterway Protection | Surface Protection | Concentrated Flows | Large Flat Areas | Stock Pile Areas | Borrow Areas | Adjacent Property Impact |
|------------------------------------|-----------------------|-----------------|-------------|------------------|---------------------|--------------------|--------------------|------------------|------------------|--------------|--------------------------|
| Sediment Control Structures | | | | X | X | | X | X | X | X | X |
| Sediment Basin | YES | YES | YES | | X | | X | | | | X |
| Sediment Trap | YES | YES | YES | | X | | X | | | | X |
| Silt Fence | YES | YES | YES | X | X | | | X | X | X | X |
| Ditch Checks | YES | NO | YES | | X | | X | | | | X |
| Stabilized Construction Entrance | NO | NO | NO | | | | | | | | X |
| Storm Drain Inlet Protection | YES | NO | YES | | X | | X | | | | X |
| Rock Sediment Dike | YES | YES | YES | | X | | X | | | | X |
| Vegetated Filter Strips (VFS) | YES | YES | NO | | X | | | X | | | X |
| Sediment Tubes | NO | NO | NO | X | X | | X | | | | X |

STORM WATER QUALITY BMP SUGGESTED USES MATRIX

| BMP | Land Requirement | Single Family | Multi Family | Low Density Commercial | High Density Commercial | Low Density Industrial | High Density Industrial | Hot Spot Treatment |
|----------------------------------|------------------|---------------|--------------|------------------------|-------------------------|------------------------|-------------------------|--------------------|
| Open Vegetated Conveyances | MEDIUM | X | | X | | X | | |
| Stream Buffers | HIGH | X | X | X | X | X | X | |
| Porous Pavement | HIGH | X | X | X | | X | | |
| Vegetated Filter Strips | MEDIUM | X | X | X | | | | |
| Infiltration Trenches | MEDIUM | X | X | X | X | X | X | |
| Bioretention Areas | MEDIUM | X | X | X | X | X | X | X |
| Enhanced Swales | MEDIUM | X | X | X | | X | | X |
| Manufactured Catch Basin Devices | LOW | | | X | X | X | X | X |
| Manufactured Separator Devices | LOW | | | X | X | X | X | X |
| Underground Detention Structures | LOW | | | X | X | X | X | X |
| Wet Storm Water Ponds | VERY HIGH | X | X | X | X | X | X | X |

STORM WATER QUALITY BMP CHARACTERISTICS MATRIX

| BMP | Maintenance Burden | Costs to Drainage Area | Aesthetically Pleasing | Provide Habitat | Drainage Area (Acres) | Soils |
|----------------------------------|--------------------|------------------------|------------------------|-----------------|-----------------------|--|
| Open Vegetated Conveyances | MEDIUM | MEDIUM | MEDIUM | LOW | 5 MAX | NO REQUIREMENT |
| Stream Buffers | LOW | LOW | HIGH | HIGH | VARIES | NO REQUIREMENT |
| Porous Pavement | HIGH | HIGH | LOW | NONE | VARIES | "A" AND "B" SOILS PREFERED INFILTRATION RATE > 0.5 IN/HR |
| Vegetated Filter Strips | LOW | LOW | MEDIUM | MEDIUM | 2 MAX | NO REQUIREMENT |
| Infiltration Trenches | MEDIUM | MEDIUM | LOW | NONE | 5 MAX | "A" AND "B" SOILS PREFERED INFILTRATION RATE > 0.5 IN/HR |
| Bioretention Areas | MEDIUM | MEDIUM | MEDIUM | MEDIUM | 5 MAX | NO REQUIREMENT |
| Enhanced Swales | LOW | MEDIUM | LOW | LOW | 5 MAX | PERMEABLE SOIL "A" AND "B" SOILS PREFERED |
| Manufactured Catch Basin Devices | HIGH | LOW | HIGH/HIDDEN | NONE | 0-1 | NO REQUIREMENT |
| Manufactured Separator Devices | HIGH | HIGH | HIGH/HIDDEN | NONE | VARIES | NO REQUIREMENT |
| Underground Detention Structures | HIGH | HIGH | HIGH/HIDDEN | NONE | VARIES | NO REQUIREMENT |
| Wet Storm Water Pond | LOW | LOW | LOW-HIGH | HIGH | 10 MIN 25 PREFER | HSG "A" MAY REQUIRE POND LINER, HSG "B" MAY REQUIRE INFILTRATION TESTING |

STORM WATER QUALITY BMP STORM WATER TREATMENT MATRIX

| BMP | Water Quantity | Water Quality | TSS Removal | Nutrient Removal | Metal Removal | Bacterial Removal | Pre-Treatment |
|----------------------------------|----------------|---------------|-------------|------------------|---------------|-------------------|---------------|
| Open Vegetated Conveyances | | X | MEDIUM | LOW | LOW | LOW | X |
| Stream Buffers | | X | HIGH | HIGH | HIGH | HIGH | X |
| Porous Pavement | X | X | NO DATA | MEDIUM | HIGH | LOW | X |
| Vegetated Filter Strips | | X | MEDIUM | LOW | LOW | LOW | X |
| Infiltration Trenches | X | X | HIGH | HIGH | HIGH | HIGH | |
| Bioretention Areas | X | X | HIGH | HIGH | MEDIUM | MEDIUM | |
| Enhanced Swales | X | X | HIGH | MEDIUM | MEDIUM | LOW | |
| Manufactured Catch Basin Devices | | X | HIGH | LOW-HIGH | LOW-HIGH | LOW-HIGH | X |
| Manufactured Separator Devices | | X | HIGH | LOW-HIGH | LOW-HIGH | LOW-HIGH | X |
| Underground Detention Structures | X | X | HIGH | LOW | LOW | LOW | |
| Wet Stormwater Pond | X | X | HIGH | HIGH | HIGH | HIGH | |