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CATEGORIES OF BEST MANAGEMENT PRACTICES (BMPs)

Activities and Methods (AM)

Number of BMPs: 19

The BMPs listed in this section are generally applicable to all types of land uses. Although generally written from the point of view for construction activities, these BMPs also pertain to existing developed properties such as commercial and industrial facilities, schools and institutions, houses and apartment buildings, etc. These BMPs focus on good housekeeping measures that reduce or eliminate stormwater pollutants.

AM-01	Employee Training
AM-02	Construction Scheduling
AM-03	Preservation of Existing Vegetation
AM-03TAB	Table – Knoxville Tree Protection Ordinance
AM-04	Maintenance of Existing Drainage Systems
AM-05	Storm Drainage System Flushing
AM-06	Material Delivery and Storage
AM-07	Spill Prevention and Control
AM-08	Waste Management and Recycling
AM-09	Sanitary and Septic Waste Management
AM-10	Contaminated Soil Management
AM-11	Dust Control
AM-12	Dewatering Operations
AM-13	Pesticides, Herbicides, and Fertilizer Use
AM-14	Vehicle and Equipment Cleaning
AM-15	Vehicle and Equipment Fueling
AM-16	Vehicle and Equipment Maintenance and Repair
AM-17	Paving Operations
AM-18	Concrete Waste Management
AM-19	Structure Construction and Painting

Erosion and Sediment (ES)

Number of BMPs: 30

The proposed BMPs listed in this section will focus predominantly on erosion and sediment control, which is one of the most significant issues for construction projects. It takes a coordinated effort on the part of many individuals to implement erosion and sediment controls correctly.

ES-01	Stabilized Construction Entrance
ES-02	Tire Washrack
ES-03	Construction Road Stabilization
ES-04	Gradient Terraces
ES-05	Surface Roughening
ES-06	Topsoil
ES-07	Mulch
ES-08	Seeding
ES-09	Sodding
ES-10	Trees, Shrubs and Vines
ES-11	Erosion Control Matting
ES-12	Geotextiles
ES-13	Check Dams
ES-14	Silt Fence
ES-15	Straw Bale Barrier
ES-16	Sandbag Barrier
ES-17	Brush or Rock Filter Berm
ES-18	Temporary Sediment Trap
ES-19	Sediment Basin
ES-20	Bank Stabilization and Soil Bioengineering
ES-21	Diversions and Downdrains
ES-22	Channel Linings
ES-23	Riprap
ES-24	Temporary Inlet Protection
ES-25	Outlet Protection
ES-26	Level Spreader
ES-27	Floating Sediment Curtain
ES-28	Gabions
ES-29	TDOT Standard Details for Erosion Control
ES-30	TDEC Erosion and Sediment Control BMPs

Industrial and Commercial (IC)

Number of BMPs: 15

The BMPs listed in this section are generally applicable to industrial and commercial properties, and also other land uses wherever material handling and large-scale maintenance items occur. Some BMPs apply equally well to residential properties and most businesses. Industrial and commercial facilities will also want to consult the BMPs listed in Section 2 (AM), which are generally useful for eliminating or reducing pollution generation.

- IC-01 Non-Stormwater Discharges to Storm Drains
- IC-02 Outdoor Loading and Unloading of Materials
- IC-03 Outdoor Container Storage of Liquid Materials
- IC-04 Outdoor Process Equipment Operations
- IC-05 Grounds Construction and Maintenance
- IC-06 Over-Water Operations
- IC-07 Food Service and Handling
- IC-08 Power or Pressure Washing
- IC-09 Swimming Pools and Spas
- IC-10 Dumpsters
- IC-11 Kitchen Exhaust Cleaning
- IC-12 Air Conditioners and Refrigeration
- IC-13 Farms and Agricultural Land
- IC-14 Response to Sanitary Sewer Overflows
- IC-15 Mobile Food Service Operations

Residential and Homeowners (RH)

Number of BMPs: 12

The BMPs listed in this section are generally applicable to residential properties. BMPs from other sections (AM, ES) may be helpful in reducing pollution or controlling erosion. Some types of stormwater treatment (ST) BMPs may also occur on residential property or easements.

- RH-01 Non-Stormwater Discharges to Storm Drains
- RH-02 Vehicle Washing
- RH-03 Vehicle Maintenance and Repairs
- RH-04 Landscape Irrigation and Lawn Watering
- RH-05 Pesticides and Fertilizers
- RH-06 Household Hazardous Waste
- RH-07 Sanitary Sewer Laterals and Septic Tanks
- RH-08 Pet and Animal Wastes
- RH-09 Slope and Streambank Stabilization
- RH-10 Swimming Pools and Spas
- RH-11 Boating and Marinas
- RH-12 Tips for Wet Basements and Crawl Spaces

Stormwater Treatment (ST)**Number of BMPs: 13**

The BMPs listed in this section represent permanent stormwater treatment practices that generally achieve both stormwater quantity and stormwater quality objectives. Also included are example detention computations and other hydrologic data.

ST-01	Dry Detention Basin
ST-02	Wet Detention Basin
ST-03	Infiltration System
ST-04	Constructed Wetlands
ST-05	Filter Strips and Swales
ST-06	Water Quality Inlets and Media Filtration Inlets
ST-07	Oil / Water Separator
ST-08	Underground Detention
ST-09	Multiple Systems
ST-10	Detention Computations
ST-11	Detention Example for Spreadsheet
ST-12	Detention Example for HEC-1 and HEC-HMS
ST-13	Other Hydrologic Computations

Tree Preservation and Maintenance (TP)**Number of BMPs: 5**

The BMPs listed in this section pertain to the protection and maintenance of trees. The preservation and protection of trees brings unique benefits in the community by assisting the natural control of solar heat, soil conservation, flood control, air pollution and noise.

TP-01	Tree Preservation and Maintenance
TP-02	Tree Protection Fencing
TP-03	Root Pruning
TP-04	Tree Planting and Staking
TP-05	Selected Tree Species for Planting

Worksheets

ST11-CN.xls	Worksheet #1 – Computing Tc and CN
ST11-EST.xls	Worksheet #2 – Initial detention volume estimates

Example

HEC1-EX.dat	Example HEC-1 Data File (Text File)
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Total Number of BMPs: 94