

MULCHING

A temporary cover of straw or mulch applied to soil reducing rainfall impact, runoff, erosion, and conserving moisture.



Good straw coverage.



Good coverage of mulch and temporary grass, but runoff has exposed some areas.



Completely inadequate coverage.

VEGETATION

A permanent cover of vegetation applied to soil reducing rainfall impact and erosion, conserving moisture and increasing sediment removal from runoff.



Excellent coverage with synthetic mats and vegetation.



Matting applied to slopes, some areas exposed. Vegetation beginning, watering needed. Mulching in foreground pretty good.



Poor vegetative cover. Large bare spots. Extensive erosion taking place.

STORMWATER UTILITIES OF BECKLEY & MORGANTOWN

Supporting West Virginia Stormwater Communities

EROSION + SEDIMENT CONTROL

P I C T O R I A L

FIELD GUIDE

to

BEST MANAGEMENT PRACTICES

To be used as part of a
Construction Site Erosion + Sediment Control Program



Take notes on the back panel **Site Report**, transfer your field notes to the **Site BMP Inspection Form**, then wipe off and re-use.

Get the
Dirt Out

Construction Stormwater
Pollution Prevention Program

CONSTRUCTION EXIT

A stone pad underlain by nonwoven geotextile located where traffic leaves a construction site to eliminate the transport of soil to public streets.

A



Excellent stone coverage.
No mud tracking onto roadway.

C



Fair stone coverage.
Some mud tracking onto roadway.

F



Very poor stone coverage.
Significant mud tracking and flowing onto roadway.

SEDIMENT BARRIER

Silt fence used to slow runoff velocity. The barriers cause sediment deposition at the structure, and filters sediment from runoff.

A



Excellent silt fence installation.

C



Silt fence adequate: but sediment needs to be removed from behind fence.

F



Complete barrier failure.
Significant quantities of sediment passing this barrier.

ROCK FILTER DAM

Stone filter dam installed to reduce water velocity and filter sediment at the structure.

A



Excellent application with two filter dams.
Look for signs of structure working such as sediment trail.

C



Good application, but height inadequate.

F



Poor application. Virtually unmaintainable without significant disturbance.
Removal of feature at completion very difficult.

CHECK DAM

Small stone barrier installed across a swale, ditch, or area of concentrated flow to reduce runoff velocity and filter sediment from runoff.

A



Excellent placement, sizing, and overflow notch.

C



Should be lower in center to direct flow.
Needs to be cleaned out prior to complete vegetation.

F



Use of hay bales is not appropriate for sediment control.
Water easily migrates under bales causing failure.

INLET SEDIMENT TRAP

Sediment barriers placed around a storm drain drop inlet to prevent sediment from entering a storm drainage system.

A



Excellent stone sizing and placement.
Note: good surrounding soil coverage with mulch.

C



Rill erosion beginning in foreground (concentrated flow). Silt fence down.
No small stone for filtering.

F



Very poor maintenance. No protection.

CURB INLET FILTER

Inlet protection devices, such as fiber rolls or filters, are good for preventing sediment from entering the inlet.

A



Excellent use of spacers. Proper maintenance.

C



Good application, but needs to be cleaned out to function properly.

F



Poor inlet protection. Hay bales do not last very long.
May clog inlet or pipes.

Site Report Card

Date Visited: _____ Site Name: _____
 Site Location: _____
 Streams Onsite: _____ Drains to: _____
 Weather During Visit: _____ Rain in prior 24 hrs: ☐ yes ☐ no
 Type of Project: ☐ Commercial ☐ Residential ☐ Utility ☐ Roadway/DOT

BEST MANAGEMENT PRACTICE

GRADE circle/check one

Refer to images & text found in this Field Guide to grade items 1 thru 6.

Individual grades lower than A should be remedied immediately.

1. **Construction Exit**

	A	B	C	D	F
a. Is Dirt being tracked into road?	☐ no		☐ yes		
b. Are construction materials or equipment being stored on the construction exit or stone pad?	☐ no		☐ yes		
2. **Sediment Barriers** (Silt Fences, Hay Bales, etc.) - Are they

	A	B	C	D	F
a. Falling down?	☐ no		☐ yes		
b. Are the Silt Fences Not properly trenched?	☐ no		☐ yes		
c. Creating a point source conduit for the water?	☐ no		☐ yes		
d. Over half full of sediment?	☐ no		☐ yes		
3. **Sediment Traps/Filters**

	A	B	C	D	F
a. Check Dam - Is check dam placed in State/US waters?	☐ no		☐ yes		
b. Rock Filter Dam - Is not installed according to approved plan?	☐ no		☐ yes		
c. Curb Inlets - Inlet is not protected from runoff with curb protection?	☐ no		☐ yes		
4. **Sediment Basins**

	A	B	C	D	F
a. Is structure placed in waters of State/US?	☐ no		☐ yes		
b. Is sediment reaching outlet/outfall pipe?	☐ no		☐ yes		
c. Is it missing a stone filter & trash rack?	☐ no		☐ yes		
d. Is a stone outlet protection missing?	☐ no		☐ yes		
e. Is the basin without vegetation stabilization?	☐ no		☐ yes		
5. **Storm Drain Outlet Protection**

	A	B	C	D	F
a. Is filter fabric missing between soil and riprap/stones?	☐ no		☐ yes		
b. Are riprap/stones missing or too small?	☐ no		☐ yes		
c. Have rains dislodged riprap/stones?	☐ no		☐ yes		
6. **Soil Cover** (Mulch, Temp. or Perm. Vegetation)

	A	B	C	D	F
a. Has the soil been disturbed and inactive for 14 days?	☐ no		☐ yes		
b. Is the straw/hay mulch spread unevenly < 2-4" depth?	☐ no		☐ yes		
c. Has site been left unstabilized & without vegetation?	☐ no		☐ yes		

Based on your observations grade the following:

7. **Sediment Contained on the Site**

	A	B	C	D	F
Complete Containment = A					
8. **Stream Color Before & After Rain**

	A	B	C	D	F
No difference = A					
9. **Pavement Clear of Sediment**

	A	B	C	D	F
(Washed or Tracked) Clear Pavement = A					

OVERALL GRADE



MATERIALS OBTAINED THROUGH UPPER CHATTAHOOCHEE RIVERKEEPER'S GET THE DIRT OUT PROGRAM (WWW.GETTHEDIRTOUT.ORG).
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 DESIGN AND PRODUCTION BY: DONAHUE STUDIOS, INC. www.donahue-inc.com

Field Guide funded by:



Beckley Sanitary Board
 Stormwater Utility
 www.beckleysanitaryboard.org



Morgantown Utility Board
 Stormwater Utility
 www.mub.org

SEDIMENT BASIN

A basin created to detain runoff waters and trap sediment.

A



Perforated standpipe with gravel filter in place.

C



Poor outlet geometry.
 Potential maintenance problem.

F



No vegetation.
 Perforated standpipe with gravel filter is missing.

Storm
 Drain

OUTLET PROTECTION

Paved, riprapped, or otherwise protected areas below storm drain outlets used to reduce velocity, and stabilize receiving channels.

A



Excellent coverage, sizing, and placement.

C



Poor geometry.
 Inadequate stone coverage.

F



Very poor stone coverage.
 Entire channel should be protected.