EROSION & SEDIMENT CONTROL

- Erosion Control is soil stabilization
- Sediment Control is after soil moves
TYPES OF EROSION

- Raindrop Erosion
- Sheet Erosion
- Rill Erosion
- Gully Erosion
- Channel Erosion
POLLUTION PREVENTION PRACTICES

• Construction site waste management & spill control
• Concrete washout
• Concrete mixing operation
• Soil Stockpile
• Sensitive Area Protection
SEDIMENT TRAPPING PRACTICES

- **Silt Fence**
  - Reinforced Silt Fence
  - Super Silt Fence
- **Sediment Trap**
  - Pipe Outlet
  - Stone Outlet
  - Riprap Outlet
  - Compost Log
- Temporary Sediment Basin
- **Storm Drain Inlet Protection**
- **Culvert Inlet Protection**
- Flocculation
FLOCULANTS

- A substance that promotes the clumping of particles.
  - PAM (polyacrylamide)
  - Many products available
DEWATERING PRACTICES

- Portable dewatering practices
  - Portable sediment tank
  - Geotextile dewatering bag
- Pumping pit
- Skimmer dewatering device
- Dewatering basins
WATER CONTROL PRACTICES

- Temporary Swale
- Temporary Earth Berm
- Vegetated Channel
- Lined Channel
- Diversion
- **Stone Check Dam**
- **Compost Filter Log**
- Subsurface Drain
- **Pipe Slope Drain**
- Chute
- Riprap Outlet Protection
- Riprap Stilling Basin
SOIL STABILIZATION PRACTICES

- Topsoiling
- Slope Treatment
  - Benching
  - Grooving
  - Serrating
  - EC Log
- Vegetative Stabilization
- Streambank & Shoreline Stabilization
- Mulching
- Stabilization Matting (Approved Product List)
  - Slope
  - Channel
- Stabilized Construction Entrance
- Dust Control
MULCHING APPLICATIONS

- Straw Mulch
- Hydromulch
- Erosion Control Blanket Mulch
- Turf Reinforcement Mat
TYPES OF BLANKETS

- Erosion Control Blanket Mulch (ECBM)
  - 100% Biodegradable, temporary
- Turf Reinforcement Mats (TRM)
  - Mostly Biodegradable, permanent
EROSION CONTROL BLANKET MULCH (ECBM)

- 100% biodegradable, that means **NO** plastic netting.
- Remember you may see plastic netting elsewhere, DNREC may allow it, but DelDOT does not.
TURF REINFORCEMENT MATS (TRM)

TRMs are a permanent measure to prevent erosion in a swale. TRMs generally have a non-biodegradable netting that will stay in place and prevent erosion – even after a full stand of grass is established.
WATERWAY CONSTRUCTION PRACTICES

- Temporary Waterway Crossings
- Stream Diversion
- Turbidity Curtain

Geotextile Lined Channel Diversion (E-17)  
Turbidity Curtain (E-18)
Steel Pipe As Temporary Diversion Pipe
Steel Sheet Pile as Stream Diversion