Lessons from the Field: Effective BMP Installation and Maintenance

Guam Stormwater Workshop July 29, 2011

Session Objectives

- Discuss proven practices for temporary BMP design, implementation, and maintenance
- Provide examples of adequate and inadequate structural and non-structural BMPs

Effective BMP Installation and Maintenance

What Does an Effective BMP Do?

- Contain Potential Pollutants on Your Project Site
- Minimize Soil Erosion to Prevent Degradation of Water Quality
- Effective BMPs Minimize the Need for Corrective Actions During Maintenance Operations

Effective BMP Installation and Maintenance

Structural BMPs

- Typical Structural BMPs may include:
 - Check Dam
 - Diversion Dike/Swale
 - Level Spreader
 - Perimeter Dike/Swale
 - Sediment Basin
 - · Sediment Trap
 - Silt Fence
 - Stabilized Construction Entrance/Exit
 - Storm Drainage Inlet Protection
 - Turbidity Curtain

Non-Structural BMPs

- Typical Non-Structural BMPs may include:
 - Stabilization with Vegetation
 - Mulch
 - Topsoil
 - Use of Procedural Practices to Minimize Exposure of Potential Pollutant Materials
 - Education

Effective BMP Installation and Maintenance

Typical Problem Areas:

- Improper Selection of BMPs
- Improper Installation of BMPs
- BMPs Not Adequately Maintained
- BMPs No Longer Necessary Should Be Removed



































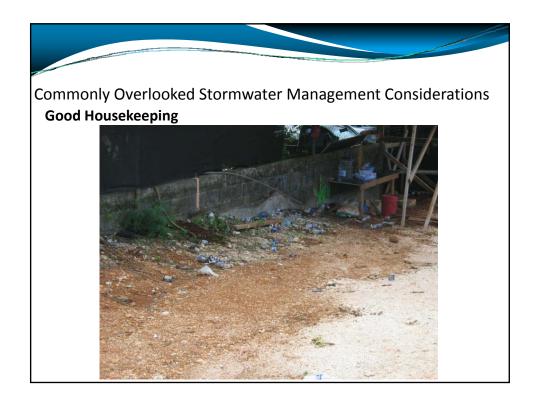












Summary Points

- Proper Selection, Installation, and Maintenance of BMPs will Prevent and Minimize the Discharge of Pollutants from Construction Sites; and
- Minimize or Prevent Violations and Enforcement Actions
- Remember, the Primary Purpose of Erosion and Sediment Controls is to Protect Surface Waters
- Preservation of Natural Areas, Waterbodies, and Open Space has Numerous Economic, Aesthetic, Community, and Environmental Benefits

Resources

- CNMI and Guam Storm Water Manual Volumes I and II http://www.deq.gov.mp/article.aspx?secID=6&artID=55
- DPW Storm Water Program and TSDM Manual http://www.guamtransportationprogram.com/about-theprogram/supportive-initiatives



