

# What is an MS4 Residual Designation and Why You Should Know



### What:

A CWA National Pollution Discharge Elimination
 System (NPDES) permit program that regulates all discharges from stormwater conveyance systems

## Why:

- New permit compliance requirements to address water quality impacts
- Stormwater Management Program implementation
- **Improved resource protection**



# Who and What will the MS4 Permit Program Regulate on Guam?



### Who

- Department of Defense MS4s
- Department of Public Works MS4s

#### What

- Stormwater runoff from urbanized areas, military facilities, parking lots, streets and roads
- Applies to all discharges primarily post construction
- Applies to all existing and future MS4 stormwater drainage systems, island wide.\*

\*Currently there are no regulated MS4s on Guam



## Why a Residual Designation for Guam?

Section 402(p)(2)(E) and (6) of the Clean Water Act and NPDES regulations at 40 CFR 122.26(a)(9)(i)(D) provide for designation for NPDES permitting of stormwater discharges which:

"contribute to a violation of a water quality standard, or is a significant contributor of pollutants to waters."

# Why a Residual Designation for Guam?



## 2010 Guam Integrated Report (GEPA) identifies:

- "Urban runoff is one of Guam's most voluminous nonpoint source problems"
- "Soil erosion is one of the island's most serious nonpoint source pollution sources"



## 2006 CNMI & Guam Stormwater Management Manual

- "Urban development has a profound influence on the quality of the waters on CNMI and Guam"
- "Water quality impacts are numerous and include sediment, nutrients, pathogens"



# Why a Residual Designation for Guam? Effects of Stormwater discharges on Guam:

- Bacteria impairments at recreational beaches
- Damage to coral reefs from sediment, nutrients, and toxicants
- Toxics affecting fish and other aquatic organisms
- Northern Guam Lens Aquifer







# Why a Residual Designation for Guam?

# Anticipated Construction and Growth

- Military Buildup =
  - increased construction & population
- +79,000 during construction,
- +33,000 permanently, 2010 DEIS





# What will MS4 permits require?

- Stormwater Management Program (6 minimum control measures)
  - 1. Public education/outreach
  - 2. Public involvement
  - 3. Illicit discharge detection and elimination
  - 4. Construction site runoff control
  - 5. Post-construction stormwater controls
  - Good housekeeping/pollution prevention for municipal operations
- Measurable goals for Minimum Control Measures
- Demonstrate compliance with existing TMDLs

# Minimum Control Measure: CONSTRUCTION SITE RUNOFF CONTROLS



- Local ordinance/regulatory mechanism requiring construction site erosion and sediment controls
- Procedures for construction site plan review
- Procedures for inspection and enforcement\*
- Sanctions to ensure compliance
- Procedures for considering public information

Applies to sites = or > 1 acre disturbance

\*Construction Industry Compliance Assistance Center www.cicacenter.org

# **Minimum Control Measure: POST-CONSTRUCTION STORMWATER CONTROLS**



- Strategy for implementing combination of structural and non-structural BMPs.
  - Structural BMPs could include infiltration and vegetative practices.
  - Non-structural BMPs could include policies guiding growth away from sensitive areas.
- Local ordinance requiring post-construction BMPs
- Ensure long term operation and maintenance

Applies to sites = or > 1 acre disturbance

# What are the Designation and Permit Procedures?



- EPA signs proposed designation (Feb 8, 2011);
- 2. Start of proposed designation comment period (Feb 9, 2011);
- 3. EPA letters to Guam DPW and Navy requesting permit applications (Feb 9, 2011).
- 4. EPA prepares and public notices draft NPDES permits.
- Comment period for designation closes when draft permit comment period(s) close
- 6. EPA considers public comments and issues final NPDES permits for implementation.
- May be a year out before permits are final



# **Take Away**

- New DOD and Guam DPW permits
- New requirements on post-construction discharges
- Additional requirements for construction discharges
- Improved aquatic resource and groundwater protection
- Clarifying stormwater control requirements now so they can be factored into Guam Buildup construction and renovation activities

## **Resources**



- EPA Website http://cfpub.epa.gov/npdes/stormwater/munic.cfm
- Construction Industry Compliance Assistance Center Website www.cicacenter.org

