### Guam Stormwater Workshop

Session 2

Review of Local and Federal Storm Requirements

Guam Soil Erosion and Sediment Control Regulations

July 27, 2011





# Guam Soil Erosion and Sediment Control Regulations

Mandated under the 10 GCA Chapter 47 – Water Pollution Control Act

- To develop & adopt a comprehensive program for the prevention, control and abatement of pollution from the waters of Guam
- The Guam Soil Erosion and Sediment Control Regulations were adopted
  - Originally in 1985
  - Revised in April 24, 2000

### Purpose of the GSESC Regulations

- To control soil erosion to prevent pollution of Guam's waters
- To protect property and promote public health, safety and welfare by regulating
  - grading
  - · clearing and grubbing
  - stockpiling
  - other earthmoving activities
  - by setting minimum standards for erosion and sediment control (ESC)

### Guam Soil Erosion and Sediment Control Regulations

### GEPA through the GSESC regulations

- To <u>manage nonpoint sources of pollution</u> consistent with:
  - the Guam Non-point Source Program
  - the Guam Soil Erosion and Sedimentation Manual (1998)
- To protect the <u>surface and ground waters of Guam</u>

### The provisions of the GSESC regs

- Impose & set forth requirements for the control of earthmoving activities
- <u>Sets forth limits</u> for the control of soil erosion and sedimentation
- <u>Provide for the enforcement</u> of such rules and regulations
- <u>Establish administrative procedures</u> in the issuance of permits

### Guam Soil Erosion and Sediment Control Regulations

### Applicability of GSESC Regulations

 Applies to ALL projects on Guam that involves construction, clearing and any earth moving activities ... by ALL private and government sectors and Federal agencies on Guam.

PERMIT! PERMIT! PERMIT! PERMIT!



A <u>Permit</u> is an official document authorizing a <u>specific</u> earth moving operations <u>Clearing & Grubbing, Grading and Stockpiling</u>

such permits require the approval of Guam EPA

# Guam Soil Erosion and Sediment Control Regulations

### Permit Application Contents

- · Description of the proposed activity
- Proof of land ownership
- Vicinity map or plan of the site indicating site information,
- Water course information and vegetation information
  - \* required maps shall be prepared and signed by a licensed land surveyor

### Permit Application Submittals

- Required plans:
  - •Environmental Protection Plan (EPP)
  - •Erosion and Sediment Control Plan (ECP)
  - Storm Water Runoff Drainage System Plan

[ECP and drainage system plan must be signed by P.E.]

# Guam Soil Erosion and Sediment Control Regulations What else may be required? •Engineer Soil's Report is required where: • cut or fill > five (5) feet • grading on land with slopes > five percent (5%) • fill placed in a gully • when the fill material is highly plastic clay

- Engineer Soil's Report shall include:
  - characteristics of existing soil and the site's subsurface condition
  - recommended limits of proposed grading
  - type of proposed fill materials
  - geotechnical calculations for the desired cut or fill
  - procedure of filling
  - height of proposed cut or fill sections

### Guam Soil Erosion and Sediment Control Regulations

### What else may need to be submitted?

- Environmental Impact Assessment (EIA)
  - When the proposed activity is within an environmentally sensitive area that may affect water bodies, critical habitats and aquifers

### There's a wetland on my property!



- Must be identified with field markings & mapping both on site and grading plans
- NO activity shall occur without first obtaining a valid Guam Wetland Development Permit and US ACOE Section 404 fill or discharge permit

### Guam Soil Erosion and Sediment Control Regulations

- Wetland (continued)
  - The Administrator may require wetlands be officially delineated in whole or in part when conditions warrant
  - slope condition soil stability
  - proximity of work to the wetland
- delineations shall be based on mapping requirements
   GEPA Wetland Mapping Policy,

(revised November 9, 1995)



### Permit Application Contents (continued)

- Federal requirements
  - project affecting ≥ one (1) acre disturbance must develop and implement a Storm Water Pollution Prevention Plan (SWPPP)
     (Note: A project that is part of a larger development)
  - Projects covered by Federal Storm Water CGP under the Clean Water Act:
    - Submit a Notice of Intent (NOI) to USEPA for project to be covered under **N**ational **P**ollutant **D**ischarge **E**limination **S**ystem permit (copy furnished to GEPA)

- Required contents (continued)
  - ESC methods, practices and equipment to be used to prevent or minimize the impact to environment
  - Anticipated environmental impacts during and after the construction activity

- Required submittal contents (continued)
  - Project description
  - Site plan
  - Grading plan
  - Construction schedule
  - Storm water drainage system and control of site water runoff

- Required contents (continued)
  - Cut and fill
    - Height requirements
      - Cut and fill is greater than <u>fifteen (15)</u> <u>feet</u> in height terraces or benches shall be constructed at the vertical intervals of <u>fifteen (15) feet</u>
      - minimum width of benches <u>= eighteen</u>
         (18) feet

- Required contents of submittal (continued)
  - Cut and fill
    - Slope requirements

NO steeper than:

2 Horizontal : 1 Vertical for CUT 3 Horizontal : 1 Vertical for FILL

An <u>Engineer's soils report</u> with the recommended slope design and design calculations demonstrating slope stability shall be submitted should the slope desired vary from the above provisions.

- Required contents...
  - Fill material specification
  - The approved methodology or procedure for filling and stockpiling.
  - Horizontal setback distance requirements

### Distance from property line

 Horizontal setback distance from the top of a cut slope or the bottom of a fill slope to the adjoining property line shall not be less than as follows:

Heights of cut or fill Distance from property line (in Feet)

Zero ft to 4 feet
 More than 4 ft to 10 ft
 More than 10 ft to 15 ft
 More than 15 ft

- Special requirements
  - Protection of the adjoining properties
  - Protection of public utilities
  - Removal of silt or other debris caused by construction activity
  - · Protection of sink holes at ALL times

### Permit Expiration

- Valid for One (1) year
- Shall become null and void if:
  - Permitted work is not started with 180 calendar days after the date of issuance
  - Work is suspended or abandoned for a minimum of 60 days

# Guam Soil Erosion and Sediment Control Regulations

### Stop Work Order

· Unacceptable condition

 If the permitted work is or may become <u>dangerous</u> or <u>in violation</u> of the Guam Water Quality Standards, the Administrator shall issue stop work order.

### Suspension or revocation of permit

- Permit has been issued on the basis of <u>false</u> information
- Existing site conditions is <u>not in accordance</u> with the terms and condition of the permit
- Permittee has <u>not complied</u> with the provision of any other applicable law, ordinance, rule or regulation of Guam

### Guam EPA EPP (Environmental Protection Plan)

# Need assistance on the GSESC Regulations

Stop by our office at Tiyan

or

Give us a call at 475-1628

