

## **Chapter 28**

### **Stormwater Pollution Prevention Plan**

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## Chapter 28

### Stormwater Pollution Prevention Plan

#### 28.1 General

The Stormwater Pollution Prevention Plan (SWPPP) sheets document the designer's site evaluation and selection of control measures and other items to comply with the terms and conditions of the State of Florida Department of Environmental Protection Generic Permit for Stormwater Discharges from Large and Small Construction Activities (DEP Generic Permit) discussed in **Volume 1, Chapter 11**. The SWPPP includes several items: a narrative description, the documents referenced in the narrative, a site map, the contractor's approved Erosion and Sediment Control Plan required by **Specification Section 104**, and reports of inspections made during construction.

For examples of SWPPP sheets, see **Exhibits SWP-1** thru **SWP-3**. Additional guidance for developing a SWPPP may be found in the DEP SWPPP template, found on the DEP web page at:

<http://www.dep.state.fl.us/water/stormwater/npdes/swppp.htm>

## 28.2 Narrative Description

The SWPPP sheets include a narrative that refers to other documents such as the **Standard Specifications** or the **Design Standards** as necessary. Use the following outline to prepare the narrative:

1. Site Description
  - a. A Description of the Construction Activity
  - b. Sequence of Major Soil Disturbing Activities
  - c. Area Estimates (The total project area and the area expected to be disturbed.)
  - d. Runoff Data consisting of:
    - 1) Rational runoff coefficient before, during, and after construction,
    - 2) The size of the drainage area for each outfall,
    - 3) The location of each outfall, in terms of latitude and longitude (to the nearest 15 seconds),
    - 4) Existing data describing the soil or the quality of discharge from the site
  - e. Site Map (Include a narrative of the site map as described in **Section 28.3**)
  - f. Receiving Waters (The name of the receiving waters for each outfall and the wetland area on the site.)
2. Controls
  - a. Erosion and Sediment Controls
    - 1) Stabilization Practices
    - 2) Structural Practices
  - b. Stormwater Management
  - c. Other Controls
    - 1) Waste Disposal
    - 2) Off-Site Vehicle Tracking & Generation of Dust
    - 3) State or Local Regulations
    - 4) Application of Fertilizers and Pesticides
    - 5) Toxic Substances
  - d. State and Local Plans

3. Maintenance
4. Inspection
5. Non-Stormwater Discharges

The sheets may also include supplemental design details and plan views of the location of the controls. Additional information for preparing the SWPPP sheets can be found in the ***FDOT Erosion and Sediment Control Handbook***.

## **28.3 Site Map**

The following information shall be shown on a site map:

1. Drainage patterns
2. Approximate slopes
3. Areas of soil disturbance
4. Areas that are not to be disturbed
5. Locations of controls identified in the plan
6. Areas that are to be stabilized against erosion
7. Surface waters (including wetlands)
8. Locations where stormwater is discharged to a surface water

The above information is shown in a typical set of construction plans. A narrative description of the site map shall be prepared which identifies the construction plan sheets where the site map information required by the DEP Generic Permit can be found.

The locations of the temporary controls may be shown on SWPPP sheets, Erosion Control sheets, Plan-Profile sheets, or Traffic Control Plan (TCP) sheets. For projects where plan view sheets are not available, the locations of the controls shall be summarized in a tabular format.

If an optional Drainage Map is included in the construction plans, then the drainage patterns will be shown on it. If the Drainage Map is not included, a topographic map (for example, a USGS quadrangle map) showing contour lines shall be prepared. This map will supplement the construction plan sheets that show the other site map requirements. If this supplemental site map is not in aerial format, include it in the SWPPP sheets. If this supplemental site map is in aerial format, it cannot be placed in the contract plans set and must be delivered to the resident engineer to have available on site.

## 28.4 Controls

The SWPPP shall include a description of the controls that will be implemented at the construction site. For each of the major activities identified in **Part 1.b** of the **Narrative**, describe the timing of the implementation of control measures during the construction process. Also describe the stormwater management measures that will be installed during construction to control pollutants in the stormwater discharges that will occur after construction.

Details should be prepared for all controls that are not detailed in the **Design Standards**. The details should show the work intended, where and how the control is to be placed, and any other special design details. Any Technical Special Provisions required by the erosion control items of work should be prepared for the specification package.

The narrative for some of the other controls will be supplied by the contractor at the preconstruction conference. A plan for off-site vehicle tracking is an exception and must be included in the SWPPP prepared during design.

Any Water Management District or Local Water Management District permits obtained in connection with the project should be noted.

## **28.5 Maintenance, Inspection and Non-Stormwater Discharges**

Include a description of any maintenance requirements that are not stated in the standard specifications. Include the inspection requirements, which will be either requirements of the DEP or the applicable requirements of another regulatory agency, whichever is more stringent. If special procedures have been developed to minimize turbidity associated with normal construction dewatering, include a description of those procedures.

Special monitoring requirements described in the DEP Generic Permit may apply where the project discharges to waters listed in **Section 303(d)** of the **Clean Water Act**. Consult with the district environmental permitting staff to determine if the monitoring requirements apply. If applicable, describe the special monitoring requirements in the inspection section of the narrative.