



# Strategies and Tools to Protect and Restore Coastal Water Quality

Regulatory Overview: Our Framework for Reducing Stormwater Runoff in Coastal South Carolina

South Carolina Department of Health and Environmental Control

Healthy People. Healthy Communities.

# Stormwater and Land Disturbance

- Federal
- State
- Local

# EPA NPDES Stormwater Program

**1972: Clean Water Act**

**National Pollutant Discharge Elimination System (NPDES)**

1990: NPDES Phase 1

Construction sites 5 acres and greater

Municipal Separate Storm Sewer Systems (MS4s)

1999: NPDES Phase II

Construction sites 1 acre and greater

Regulated Small MS4s



# SC NPDES Stormwater Program

## NPDES Phase II

### Construction General Permit (CGP)

Effective September 1, 2006

Re-Issued CGP Effective January 1, 2013

Sites that disturb 1 acre or more

Sites part of a Larger Common Plan of Development

SC Coastal Zone Captures Sites within ½ Mile of a Receiving Water Body

Single Family Homes not Part of a Subdivision Exempt



# SC NPDES Construction General Permit

## CGP Requirements

- Controls for Construction Site Stormwater Discharges
- Technical Design Standards from State Regulations
- Monitoring and Reporting

## S. C. Stormwater Management and Sediment Regulations – R. 72-300

### **1991 – Stormwater and Sediment Reduction Act**

### **1992 – Final Regulations Effective**

- Sites 2 acres and greater, part of a Larger Common Plan or within ½ mile of a receiving water body
- Single family residences exempt (Not Part of a Larger Common Plan)
- Subdivisions approved prior to effective regulations (June 26, 1992) exempt

## R 72-300 Design Requirements

### Water Quantity Control

- Post-development discharge rates cannot exceed the pre-development rates for the 2- and 10-year, 24 hour storm event.

### Water Quality Treatment

- Ponds with a permanent pool must store and release over 24 hours the first 1/2" of runoff
- Ponds without a permanent pool must store and release over 24 hours the first 1" of runoff
- Infiltration practices must accept the first 1" of runoff from impervious surfaces
- Recommends measures other than ponds for projects smaller than 10 acres



## Coastal Zone Refinements

### Additional water quality requirements

- Runoff Storage Requirements
- Project Size Requiring Permits
- Bridge Runoff
- Golf Courses
- Mines/Landfills





Detention Pond



Grassed Swale



Grass Filter Strip



Natural Buffer

# Local Stormwater Requirements

## 1990 NPDES Phase 1

- Large and Medium Municipal Separate Storm Sewer Systems (MS4s)
  - Medium = 100,000-250,000 population
  - Large > 250,000 population

## 1999 NPDES Phase II

- Small Regulated MS4s
  - Population less than 100,000

## Local MS4 Programs

### **Six Minimum Control Measures**

- Stormwater Runoff Program for Construction Activities
- Stormwater Runoff Program for Post Construction
- Public Education and Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Pollution Prevention/Good Housekeeping



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# CONTACT US

Richard Geer  
Bureau of Water  
Coastal Stormwater Permitting  
843-953-0200  
[geerrv@dhec.sc.gov](mailto:geerrv@dhec.sc.gov)

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