



MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEMS)

CLEAN WATER ACT

- Make all waters fishable, swimmable
- No discharge of pollutants from point sources to waters of the US without permit

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

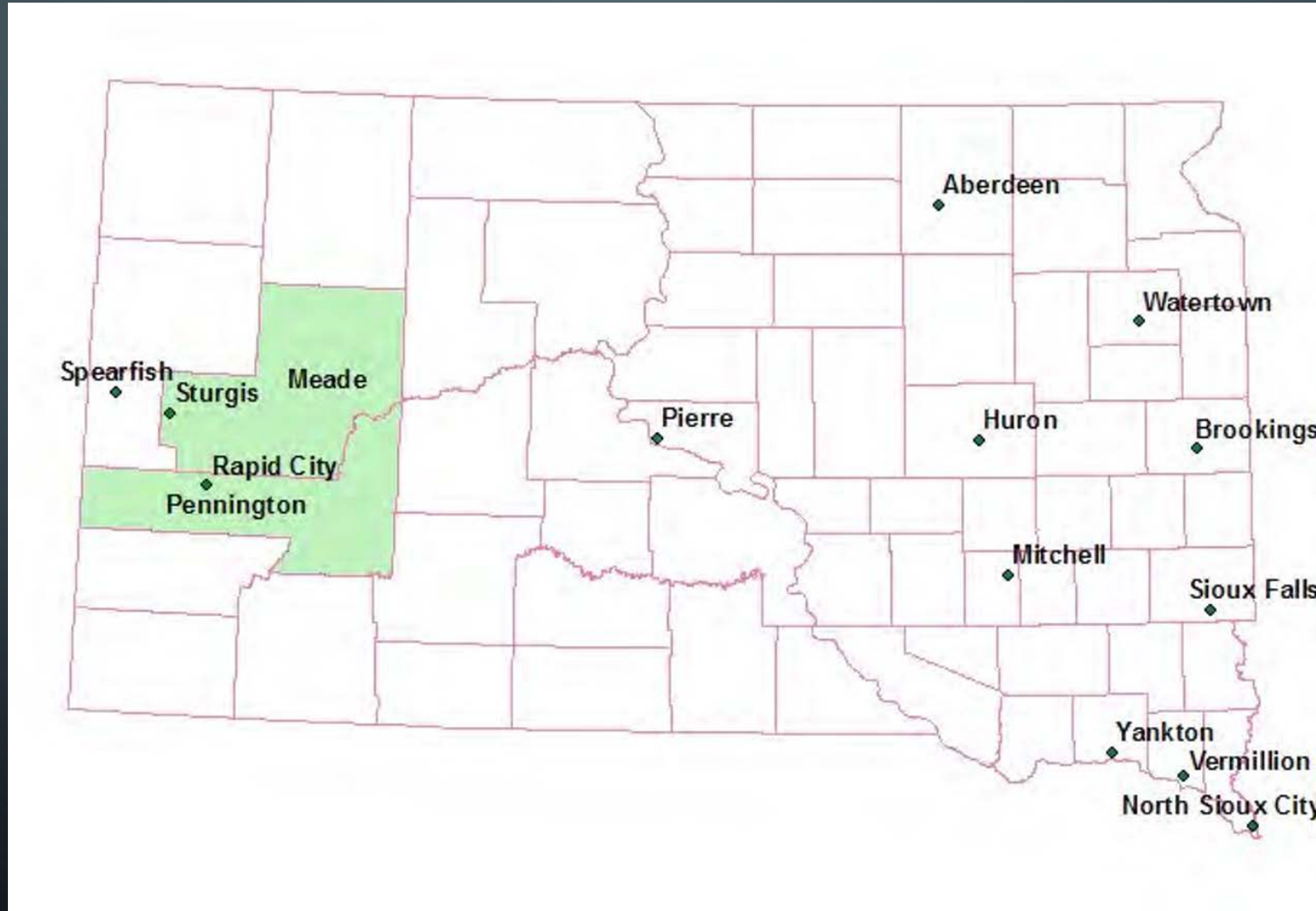
- South Dakota was delegated the NPDES program in 1993
- Surface water discharge (in SD) = NPDES
- DENR writes the SWD permits (this includes the storm water permits)
- EPA Regularly reviews the SWD permitting program



STORMWATER PROGRAM PRIMARY OBJECTIVES

- Prevent stormwater from becoming contaminated
- Prevent any contaminated stormwater from leaving the site

MS4 LOCATIONS



MS4 PERMITS

- Sioux Falls and SDDOT are co-permittees on an individual permit
- Other MS4s are covered under a general permit



MS4 GENERAL PERMIT

- Effective: January 1, 2003
- Expired: December 31, 2007
- Administratively Continued

MS4 GENERAL PERMIT

- Small MS4s in urbanized area
- Small MS4s with a population of at least 10,000 people
- Small MS4s designated by the department
- Small MS4s voluntarily participating

MINIMUM CONTROL

- Public Education & Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping

PUBLIC EDUCATION AND OUTREACH

- Must include distribution of educational materials to the community or equivalent outreach events
- Should be tailored to specific target audiences
- Should be tailored to specific areas of concern

PUBLIC INVOLVEMENT/PARTICIPATION

- The public must be included in developing, reviewing, and implementing the SWMP
- Opportunities for public participation include citizen members on storm water management board, public hearings, assisting in coordination with other programs, citizen educators
- Comply with public notice requirements

ILLICIT DISCHARGE DETECTION AND ELIMINATION

- MS4 must develop, implement, and enforce procedures to detect and eliminate illicit discharges
- Develop a map of the storm sewer system
- Procedures for locating priority areas likely to have illicit discharges
- Procedures for tracing source of illicit discharges

ILLICIT DISCHARGE DETECTION AND ELIMINATION (CONT.)

- Procedures for removing the source of illicit discharges
- Procedures for evaluating the illicit discharge plan
- Dry weather screening

CONSTRUCTION SITE RUNOFF CONTROL

- MS4 must develop, implement, and enforce requirements for construction activities to address pollutants in storm water runoff to the MS4
- Program must include procedures for review of construction site plans, site inspections, and enforcement

POST-CONSTRUCTION MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

- MS4 must develop, implement, and enforce measures to address storm water runoff from new development and redevelopment that discharge into the MS4
- The requirements must ensure that controls are in place that would prevent or minimize water quality impacts

POLLUTION PREVENTION/GOOD HOUSEKEEPING

- MS4 must develop and implement pollution prevention guidelines for preventing or reducing pollutant runoff from municipal operations

ANNUAL REPORT

- Due March 10 each year
- Status of compliance
- Assessment of BMPs
- Results of information collected
- Summary of activities for next year
- Description of changes needed
- Notice if MS4 is relying on other entity to satisfy permit requirements

NEW PERMITS

- Separate Permits for Sioux Falls and SDDOT
- General Permit switches from developing to implementing the programs
- Monitoring?

EFFLUENT GUIDELINES

- Published December 1, 2009
- Must be incorporated into permits
- Turbidity limit 290 NTU for sites disturbing >10 acres

PROPOSED RULEMAKING

- Based on National Research Council study on urban stormwater management
- Post-construction hydrology matches pre-construction hydrology