

Phase II
Storm Water Permit Program
MS4 Permit



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Types of Storm Water Permits

- Construction (ILR10...) for construction sites greater than or equal to one acre
- Industrial (ILR00...) for industries that have the potential to impact storm water
- MS4 (ILR40...) for communities that meet the criteria as defined in CFR122.26(b)(16).
 - Urbanized area, population density, potential to impact storm water.

MS4 Definitions

- Municipal Separate Storm Sewer System
 - Includes roads with drainage systems
 - Municipal streets, catch basins, curbs and gutters
 - Storm ditches, man-made channels, storm drains
- Doesn't have to be a pipe, just a means of conveying storm water
- Doesn't include combined sewers or sanitary sewers

Covered Entities

- Cities in urbanized areas with combined populations of 50,000 people or more and/or a population density of 1,000 people per square mile
- Townships in urbanized areas
- Counties
- DOT, drainage districts or similar entities
- Other communities as designated based on watershed criteria

Phase II Small MS4 Permit Renewal **Changes**

- New Permit became effective April 1, 2009
- Notice of Intent for future Renewals
 - Submit electronically to Agency
 - Agency will post on website
- Annual Inspections
 - Submit electronically to Agency
 - Agency will post on website

MS4 Storm Water Permit **Changes**

- NOI is now required for municipal construction projects
 - Submit Notice of Intent (NOI) for all construction activity 1 or more acres
 - Submit NOI with original signature at least 30 days before construction begin date – retained automatic coverage of construction sites for MS4s
 - Submit Electronic Copy of SWPPP
 - 30 Day mandatory review period
 - IEPA will post NOI's on website for 14 days
 - Submit NOT when site is properly stabilized

General Permit Requirements

Notice of Intent (NOI)

- Previously covered - submit new NOI within 90 days of effective permit date (April 1, 2009)
- Not previously covered, but notified by Agency that coverage is now required - submit NOI within 180 days of notification.
- Include all information specified in permit
- Submit both electronically AND hard copy with original signature

Partnership and Qualifying Programs



- You may partner with other MS4s
- Must have agreement on who is doing what and the partner must implement the BMP
- Partnership Examples:
 - Household hazardous waste collections
 - Share publications, links to other websites with useful information
 - Shared training programs for staff and public
 - Shared water monitoring for watersheds

Qualifying local programs include county and municipal ordinances and enforcement programs

Total Maximum Daily Loads (TMDLs)

- Some watersheds are subject to TMDLs
- If your system discharges to a TMDL listed watershed, you must evaluate your program and include BMPs for storm water related TMDL requirements.



Monitoring Requirements

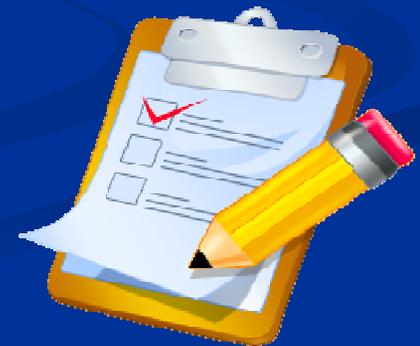


- Must evaluate program compliance and effectiveness
- Must include:
 - at least annual monitoring of receiving waters upstream and downstream, and/or
 - Indicators to gauge effects on physical/habitat related aspects of receiving waters, and/or
 - Any other monitoring needed to evaluate effectiveness of BMPs and show reduction of pollutants



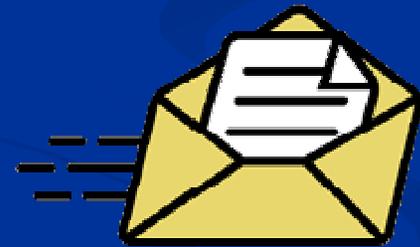
Recordkeeping

- Must post your NOI, your SWMP and your annual reports on your website
- Records must be kept to show compliance with program
- Records must be available for inspections
- Records must be available to public (storm sewer maps exempted)



Reporting

- Must submit annual reports by June 1st
- Must be submitted electronically
- Report covers from March thru March
- Must include permit requirements, including:
 - Status of program and effectiveness
 - Results of any monitoring data
 - Any changes to program



Storm Water Management Program (SWMP)

Six Minimum Control Measures

- Public education on storm water impacts
- Public involvement and participation
- Illicit discharge detection and elimination
- Construction site runoff control
- Post construction controls on new development and redevelopment
- Pollution prevention/good housekeeping for municipal operations

Definitions

- Measureable Goal – narrative or numeric standards used to gauge program effectiveness
- Measureable Goal requirements:
 - Include activity or BMP to be completed
 - Schedule or date for completion
 - Quantifiable target to measure progress toward achieving activity or BMP
 - Measurement can be in percentages, numbers, data results, or dates of completion.
- Include measureable goals with all six MCMs

Definitions



- Green Infrastructure:

- Approaches and technologies that utilize, enhance or mimic natural conditions
- Examples include green roofs, rain gardens, trees and tree boxes, vegetated swales, pocket wetlands, infiltration planters, porous and permeable pavements, porous piping, vegetated median strips, rain barrels, riparian buffers, etc.

Public Education and Outreach on Storm Water Impacts

- Distribute educational materials to community
- Provide info on a website
- Do a public service announcement at a movie theater or local event
- Conduct equivalent outreach activities
- Focus on household issues (pet waste, car washing, fertilizers, used motor oil)
- Include information on green infrastructure strategies



Public Involvement and Participation

- Volunteer programs (clean-up days, adopt a street or storm drain programs, etc.)
- Volunteer water monitoring
- Boy scout and girl scout watershed projects
- Work with local teachers, community and environmental groups
- Work with local conservation districts and park districts

Illicit discharge detection and elimination (IDDE)



- Storm sewer map (if not already done)
- Update local ordinances to allow regulation and enforcement
- Require reporting of all releases and spills
- Develop an IDDE plan for community
- Educate businesses and public about illicit discharge
- Train employees to detect illicit discharge
- Inspect all stormwater outfalls at least once/year
- Recommendation: Utilize trained professionals, like fire, police, pretreatment coordinators









Construction Site Runoff Control

- Develop, implement and enforce program for sediment & erosion control for construction sites greater than or equal to one acre
- Require controls for construction activity wastes (garbage, concrete washout, spills, sanitary wastes)
- Train inspectors to do erosion inspections
- Encourage use of green infrastructure











Post Construction Controls on New Development and Redevelopment

- Incorporate storm water infiltration, reuse and evapotranspiration whenever possible
- Reduce volume, velocity and pollutants as much as possible
- Preserve natural features and existing waterways as much as possible
- Minimize impervious surfaces
- Require post construction management plans
- Train employees on green infrastructure alternatives for maintenance and repair

Morton Arboretum Parking Lot





Pollution Prevention/Good Housekeeping for Municipal Operations

- Develop storm water management plan for municipal operations
- Review all operations for impact on storm water (salt storage, vehicle maintenance, pesticide/herbicide use, waste handling, etc.)
- Determine BMPs for municipal operations
- Collect and properly dispose of wastes from cleaning storm sewers and street sweepings
- Train employees in P2 and good housekeeping

Email Addresses

- Storm water coordinator : terri.lemasters@illinois.gov
- Permit manager: al.keller@illinois.gov
 - 217/782-0610 (permit section)

Submittals

- SWPPPs - epa.constilr10swppp@illinois.gov
- ION – epa.swnoncomp@illinois.gov
- MS4 NOI - epa.ms4noipermit@illinois.gov
- Annual Inspection – epa.ms4annualinsp@illinois.gov
- Industrial SWPPPs – epa.indilr00swppp@illinois.gov

Website Addresses

- www.epa.state.il.us
- MS4 NOI for Permit and Permit Renewal
<http://www.epa.state.il.us/water/permits/storm-water/ms4.html>
- NOIs, NOTs, IONs and Construction Site Permit
- <http://www.epa.state.il.us/water/permits/storm-water/construction.html>
- Public Notification List of NOI Applicants
<http://www.epa.state.il.us/water/permits/storm-water/noi/>
- Public Notification List of SWPPPs
<http://www.epa.state.il.us/water/permits/storm-water/noi-docs/>
- USEPA guidance documents and fact sheets
<http://cfpub.epa.gov/npdes/stormwater>

Any Questions?

