MS4 and Municipal Emergency Management







WHY YOU NEED TO THINK ABOUT MS4 MAY 31, 2017

Objectives

- O BRIEF overview of Stormwater & the MS4 Program
- O Understand what municipalities are required to do for their Stormwater Management Program
- O Your responsibility in helping the municipalities fulfill their stormwater permit requirements

What is Stormwater?



Stormwater occurs when precipitation from rain or snowmelt flows over the ground

Why is stormwater a problem?

- O Erosion and Sedimentation
- O Flooding
- O Pollution carried to all waterways
- O Inhibits habitats of aquatic wildlife
- O Make water resources unsafe for recreation and drinking





MS4 is a type of *Permit*

Municipal Separate Storm Sewer System.

"A state, city, town, borough, county, parish, district, association, or other public body"

Any drainage system which conveys **only** storm water. (curbs, gutters, basins, storm pipes, ditches, swales, municipal streets etc..)

Note: what washes down the stormwater system is not treated or cleaned before it reaches the creek, river.



Goals of MS4

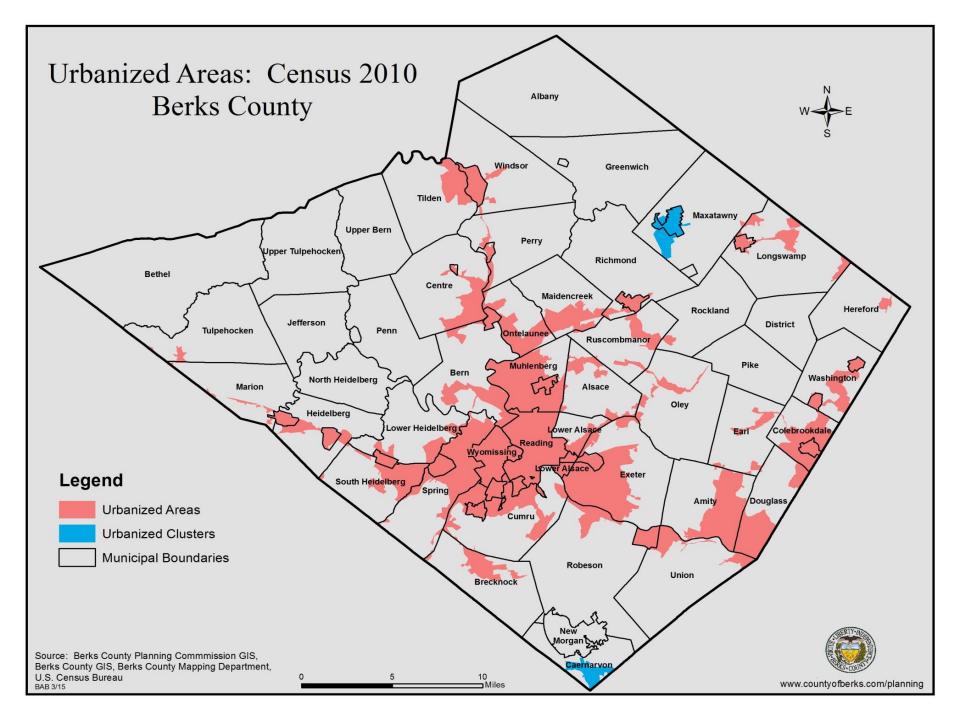






QUALITY

QUANTITY



Municipal MS4 Permit Requirements

Municipalities must have a stormwater management program which includes:

O Stormwater Management Ordinance (Act 167 or other)

O Implementation of 6 minimum control measures

O Pollution Reduction Plan (PRP) or Total Daily Maximum Load Plan (TMDL) for impaired streams

Six Minimum Control Measures

- 1. Public Education and Outreach
- 2. Public Participation and Involvement
- 3. Illicit Discharge Detection and Elimination (IDD&E)
- 4. Construction Site Runoff Control
- 5. Post-Construction Stormwater Management (New and Redevelopment)
- 6. Pollution Prevention and Good Housekeeping for Municipal Operations and Maintenance



How your operations impact MS4 requirements

- O Fire stations, Police stations, Ambulance buildings may be included in the municipal operations and management plan
- O Police may issue violations
- O Hydrant flushing
- O Chemicals stored at your facility and how they are used in your individual response
- O Training of your employees
- O Recordkeeping and Reports

Items to consider which apply to MS4 requirements

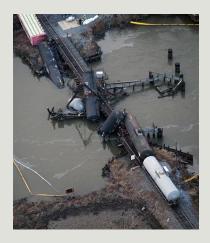
How do you do the things below:

- OSpill Response/Spill Prevention (both at your facility and emergency events)
- OProper disposal of spill materials at your facility/after event
- OWashing areas (commercial car wash, grass/gravel area, or drained area)
- **O**Employee Protocol/Training
- O Vehicle Maintenance

Emergency Events that Impact MS4

- O Fire Hydrant flushing
- O Transportation Accidents (Vehicle, Train)
- O Pipeline releases







Items to include on accident report for MS4 purposes

Specific location of event (description of area including is there a creek nearby)

Date, time and weather conditions

Description of the pollution (what is it and how much)

Whose at risk (people, property or the environment)

What watershed are you in

Is it a source for drinking water (whose source is it)

What are you using to clean up the spill, leak, accident debris

Description of violator (license plate number, company name)

Pictures

Use PA WARN



- * Notify DEP no later than 4 hours after event if potential for down stream contamination
 - * New DEP Emergency Phone Number: 866-825-0208

Recordkeeping and Information Sharing

- O If it's not in writing, it didn't happen!
- O Provides accounting of activities as they occur
- O Proof of compliance with permit
- O Sharing of information provides consistency for municipal program





Antietam Lake Case Study Spill Response



Motor vehicle accident with spillage of motor vehicle fuel and liquids

WHO

The Stakeholders:

- Berks County Parks Department
- Lower Alsace Township
- PennDOT

Response Teams:

- Lower Alsace Fire Company
- Mt. Penn Fire Company
- Elk Environmental

Actions/Response Taken

- O Vehicle removed from site
- O Booms placed into lake to contain gasoline spill from vehicle
- O Absorbent pad material placed along bank
- O Absorbent material applied to roadway to soak up liquids
- O Used materials picked up and hauled away by designated environmental hauler







Thank You! Questions?



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