

# MS4 MUNICIPAL TRAINING

2016



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# MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

- **Permit Overview-what's included in your permit!**
  - This is a 5 Year Permit that started in 2013
  - It is a permit for any stormwater conveyance that is:
    - Used for collecting and/or conveying stormwater
    - Owned by a municipality or any other public body
    - Not used as a combined sewer
    - Not part of Publically Owned Treatment Works



# How Do You Address These Permit Requirements?

- **By preparing and implementing a Minimum Control Measure (MCM) Written Plan?**
  - There are 6 MCMs
  - Within each MCM Plan there are Multiple Best Management Practices (BMPs) that must be implemented



# How Do You Address These Permit Requirements? (cont.)

## ■ **What is a BMP?**

- Best Management Practice - This can refer to both tangible, structural facilities and intangible ideas or procedures.
- Techniques, Measures, or Structural Controls used to Manage the Quantity and Improve the Quality of Stormwater Runoff



# What are the MCM's?

- **MCM #1 - Public Education and Outreach on Stormwater Impacts**
- **MCM #2 - Public Involvement/Participation**
- **MCM #3 - Illicit Discharge Detection and Elimination**
- **MCM #4 - Construction Site Stormwater Runoff Control**
- **MCM #5 - Post-Construction Stormwater Management (PCSM) in New and Re-Development Activities**
- **MCM #6 - Pollution Prevention/Good Housekeeping**



# MCM No. 1

- **Public Education and Outreach on Stormwater Impacts**

- MCM #1 involves the distribution of educational materials to various target groups throughout the community—i.e. residents and businesses that operate within the community
- Document the distribution of all educational material



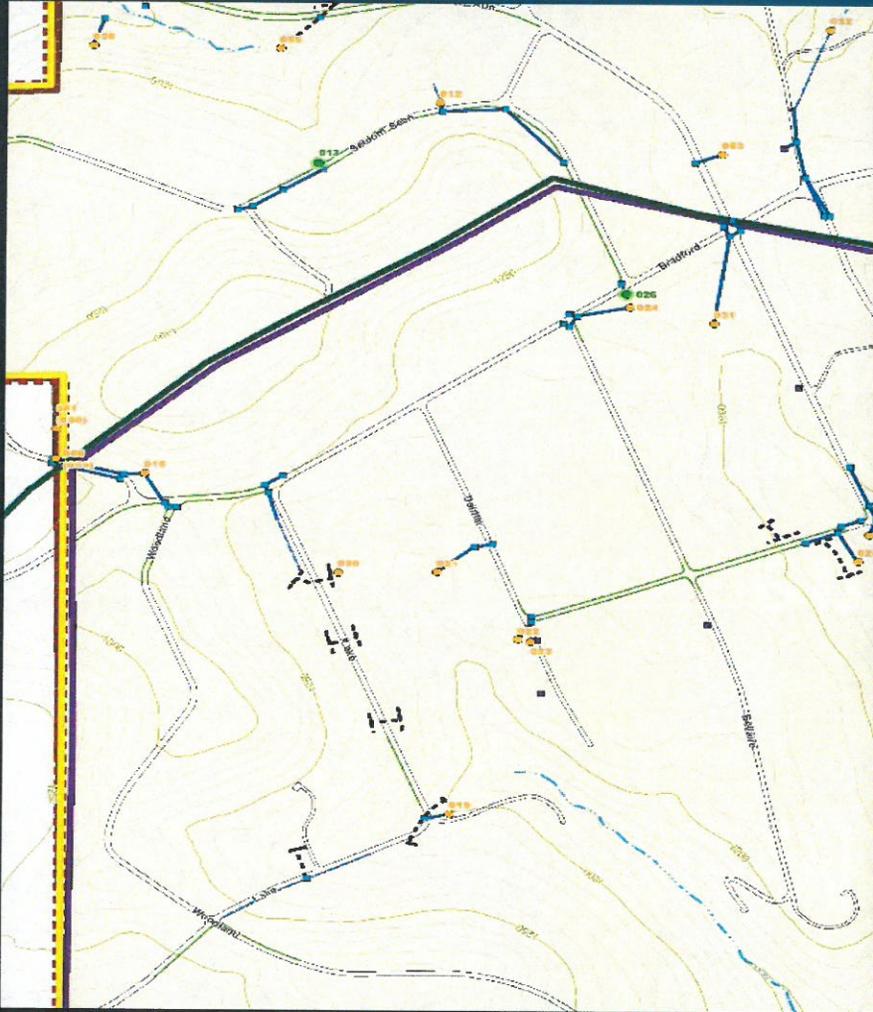


## MCM No. 2

- **Public Involvement/Participation**
  - Involves programming by the municipality or residents for groups to be involved with the implementation of the permit and program
  - At least one advertised public meeting must be held yearly
  - Document public involvement activities and public meetings



# MCM No. 3



- **Illicit Discharge Detection and Elimination**

- Development of mapping of the system and testing of the outfalls (Refer to next slide)
- Development of the system for complaint tracking to identify and track illicit discharges and the elimination of these discharges





# MCM No. 3

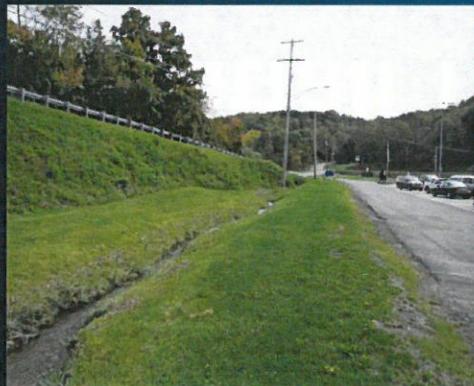


## ■ What is an Outfall?

- “The Point where an MS4 Discharges Concentrated Stormwater to other Surface Water of this Commonwealth”
- Conduct Outfall Screening on the following:

### ■ Outfall Types

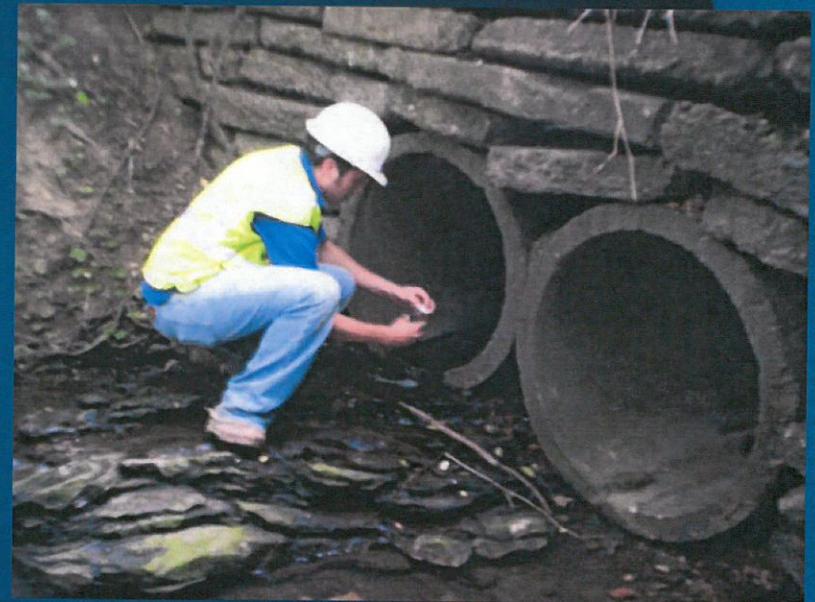
- Pipe Outfall
- Catch Basin
- End of Curb and Gutter
- Roadside Ditch
- Swale



# MCM No. 3

## ■ How often is each Outfall Tested?

- Each outfall must be tested once during the 5 year permit cycle. Typically 20% are tested each year to distribute cost.
- Outfalls are visually inspected 48 hours after a precipitation event
- If dry weather flow is evident, two grab samples must be taken
- Document follow up completed on outfalls with illicit discharges



# MCM No. 4

## ■ Construction Site Stormwater Runoff Control

- Implementation of an inspection procedure to review construction sites for proper Erosion and Sedimentation (E&S) Controls



- Implementation of a tracking system for complaints and violations relating to E&S Controls at construction/homebuilding sites



# MCM No. 5

- **Post-Construction Stormwater Management (PCSM) in New and Re-Development Activities**
  - Implementation of a tracking and inspection system for all PCSM BMPs within the municipality
  - These need inspected and follow-up completed **Yearly** including both Private and Public facilities
  - Inspection of ponds, storm tanks, rain gardens



# MCM No. 6

## ■ **Pollution Prevention/Good Housekeeping**

### ■ Following Operations and Maintenance Program

- Reduce/eliminating discharges to storm drains
- Reduce discharge from Streets, Roads, Highways, Parking Lots, etc.
- Proper disposal of waste material from street sweeping, inlet cleaning and spill cleanups in a lined dumpster with testing as required by the disposal site.



# MCM No. 6(cont.)

- **Operation, Maintenance, and YEARLY Inspection Program**
- Catch Basin/Inlets
  - Inspect and clean all municipal-owned Catch Basins / Inlets annually
  - Develop a long term schedule for inlet repair and replacement
  - Document (with written forms and photographs) inspections, cleaning, and repairs
- Stormwater Detention / Retention Facilities
  - Inspect yearly, document inspection (with written forms and photographs) and repair



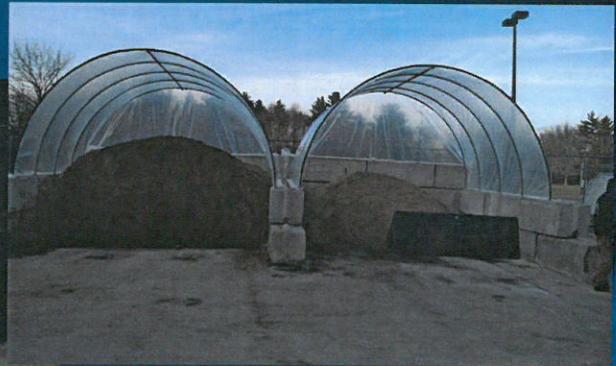
# MCM No. 6 (cont.)

- **Vehicle Maintenance, Fueling, and Washing**
  - Municipal-Owned Fuel Site
    - Discourage "Topping-Off", spills controlled immediately
  - Vehicle Maintenance
    - Fluids stored in a proper manner
    - Commercial car washes for police and smaller vehicles
    - Phosphate-free soaps and detergents
    - Vehicles washed in designated area, storm connections blocked off using inserts and drain onto permeable area



# MCM No. 6 (cont.)

- Develop and implement a training program for municipal staff, elected officials, and emergency response personnel



# MS4 Tracking System

## MS4 Binders and GIS Asset Tracking System

- **GIS Mapping and Asset Management**
- **7-Binders will contain general information and one binder per MCM with compliance documentation for the current permit cycle**
- **Why do the Documentation?**
  - DEP now AUDITS all permit holders at least once per five year permit cycle (approximately two years remain for the current permit)
- **Progress Reports are required. Documentation of compliance with each MCM must be provided in the Progress Report**

