



# **Lower Allen Township MS4 Program**

## **Annual Update And Public Meeting**

**March 12, 2018**



# **NPDES Phase 2 MS4 Program**

## **□ What is MS4?**

- Municipal**
- Separate**
- Storm**
- Sewer**
- System**



# Background

**A PROGRAM UNDER WHICH A MUNICIPALITY IS ISSUED A PERMIT TO DISCHARGE STORMWATER INTO THE CHESAPEAKE BAY**

**THE INTENT OF THE MS4 PROGRAM IS TO REDUCE POLLUTANTS INTO WATERS OF THE COMMONWEALTH**

**THE MS4 PROGRAM IS REGULATED BY BOTH THE UNITED STATES DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP)**



# **Storm Water Permit Program for Small Communities**

- Federal regulation requires permit for our community**
  - National Pollutant Discharge Elimination System (NPDES)**
- PA DEP created state permitting program to meet federal regulation**



# **HOW DOES THE MS4 PERMIT WORK?**

**MUNICIPALITIES ACQUIRE A NPDES PERMIT THAT COVERS A 5 YEAR PERIOD.**

**THE PERMIT REQUIRES THE MUNICIPALITY TO MEASURE IT'S EFFORTS TO REDUCE POLLUTANTS IN 6 DIFFERENT AREAS.**

**ANNUALLY, THE MUNICIPALITY MUST REPORT TO PADEP ON HOW THEY HAVE IMPROVED, CHANGED, AND MANAGED THESE AREAS IN ORDER TO MAINTAIN COMPLIANCE WITH THEIR PERMIT.**

**MINIMUM CONTROL MEASURES MUST BE RE-EVALUATED ANNUALLY TO DETERMINE COMPLIANCE.**



# Minimum Control Measures (MCMs)

- ❑ **Public Education and Outreach**
- ❑ **Public Involvement and Participation**
- ❑ **Illicit Discharge Detection and Elimination**
- ❑ **Construction Site Stormwater Runoff Control**
- ❑ **Post Construction Stormwater Management**
- ❑ **Pollution Prevention/Good Housekeeping**



# GENERAL MS4 PERMIT INFORMATION

## NPDES MS4 PAG 133711

- **Effective Date: April 1, 2013**
- **Expiration Date: March 15, 2018**

## 2018 General MS4 Permit

- **Effective Date: March 16, 2018**
- **Expiration Date: March 15, 2023**
- **First reporting period ends on June 30, 2018**
- **First Annual Report due September 30, 2018 (April 1, 2017- June 30, 2018)**
- **All subsequent Annual Reports due September 30 and will cover the reporting period of July 1 – June 30**







Clean Water













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# Storm Water Pollutants

- ☐ **Sediment**
- ☐ **Nutrients**
- ☐ **Bacteria**
- ☐ **Oxygen Demand**
- ☐ **Oil and Grease**
- ☐ **Trace Metals**
- ☐ **Toxic Chemicals**
- ☐ **Chlorides**
- ☐ **Thermal Impacts**



household wastewater  
(toilet, sinks, etc.)



catch basin

sewer pipe



**2 UNDERGROUND  
SYSTEMS**



storm drain  
tunnel





# LAT Storm Water Program

- **Public Education and Outreach**
- **Construction Site Runoff Control**
- **Public Involvement/Participation**
- **Post-Construction Storm Water Management**
- **Illicit Discharge Detection and Elimination**
- **Pollution Prevention/Good Housekeeping**



# **MCM #1 - Public Education and Outreach**

- Distribute educational materials developed by PA DEP**
- Develop outreach plan for community**
- Educate public on water quality impacts due to stormwater runoff and steps for reduction of pollutants**



# **MCM #2 - Public Involvement/Participation**

- Provide public notice**
- Create a public involvement plan**
- Hold a public meeting on the program**
- Support volunteer programs**
  - Water Quality Monitoring**
  - Storm Drain Identification**
  - Stream Clean-Ups**



# **MCM #3 - Illicit Discharge Detection and Elimination**

- Enact DEP's model ordinance or update our existing ordinance**
- Develop storm sewer system map**
- Implement program to detect non-storm water in system. Create a reporting mechanism for residents**
- Educate community on problems related to dumping in storm sewers**



# **MCM #4 - Construction Site Storm Water Runoff Control**

- Enact DEP's model ordinance or update our existing ordinance**
- Coordinate with County Conservation District**
  - Erosion and Sediment Control Program**
  - NPDES Construction Storm Water Permitting**
- Educate construction industry – add contractors/builders to Target Audience List**



# **MCM #5 - Post-Construction Storm Water Management**

- Adopt PA DEP's model storm water management ordinance**
- Ensure proper operation and maintenance of post-construction controls**
- Continue BMP monitoring through annual mailing and reporting system**



# **MCM #6 - Pollution Prevention/ Good Housekeeping**

- Implement O & M program that focuses on pollution prevention**
- Train municipal employees on good housekeeping practices**
- Educate community on pollution prevention**



# **Lower Allen Township MS4 Program Near Term Efforts**

- ❑ ***Complete and submit annual report***
- ❑ ***Refine and continue implementation of SWMP***
- ❑ ***Additional program documentation***
- ❑ ***Evaluate new permit requirements and prepare implementation schedule***
- ❑ ***Implement Chesapeake Bay Pollution Reduction Plan (PRP)***



# Chesapeake Bay Pollution Reduction Program

- ❑ LAT is required to reduce pollutants within the next 5 year permit term period by a 10% reduction in sediment
- ❑ A PRP (Pollution Reduction Plan) has been submitted to DEP by LAT
- ❑ The PRP proposes retrofitting 10 SWM basins to bioretention areas/basins in the township to reduce pollutants to the waters of the commonwealth



# **Lower Allen Township MS4 Program Longer Term Efforts**

- ❑ Revise Target audience list as needed**
- ❑ Step up Public Involvement and Participation and Outreach**
- ❑ Prepare for program changes in PAG -13**
- ❑ Greater emphasis on Water Quality**





# Public Comments

## Questions?



# **For More Information. . .**

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