

# Overview of 2017 MS4 Stormwater Permit

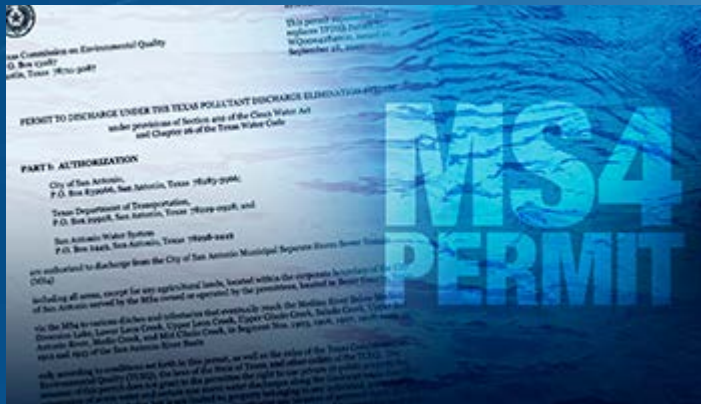
Department of Public Works  
Town of Ayer

December 2016



# What is an MS4 Permit?

- Municipal Separate Storm Sewer Systems
- EPA Program in place since 1990 to regulate discharges from MS4s to protect water quality
- Ayer has a NPDES Stormwater Discharge Permit and the DPW has specific responsibilities required by the permit
- A new MS4 Permit has been issued and becomes effective July 1, 2017



# Key Requirements:

- Submit Notice of Intent (NOI) by September 29, 2017, and make available for public review
- Submit Stormwater Management Plan (SWMP) by July 1, 2018
- Compile an inventory of all Sanitary Sewer Overflows (SSOs)
- Priority rank outfalls and catchment areas for Illicit Discharge Detection Elimination (IDDE) catchment investigations
- Develop IDDE Plan to conduct dry and wet weather sampling to identify illicit connections
- Develop inspection and enforcement protocols for construction erosion control
- Perform BMP inspections, more frequent street sweeping and catch basin inspections
- Additional requirements for community with impaired water resources



# NOI Must Address Six Minimum Control Measures (MCMs):

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination (IDDE)
- Construction Site Stormwater Runoff Control
- Stormwater Management in New Development and Redevelopment
- Good Housekeeping and Pollution Prevention



# Requirement for impaired Water Quality - Phosphorous

- ADDITIONAL PUBLIC EDUCATION MESSAGES
- ADDITIONAL NEW AND REDEVELOPMENT REQUIREMENTS
- ADDITIONAL GOOD HOUSEKEEPING REQUIREMENTS
- NUTRIENT SOURCE IDENTIFICATION REPORT
  - DUE YEAR 4
  - DELINEATE POTENTIAL N OR P SOURCES
  - ID POTENTIAL RETROFITS
  - 1 DEMONSTRATION PROJECT BY YEAR 6
  - TRACKING OF N OR P REDUCTIONS THROUGH IMPLEMENTATION OF STRUCTURAL BMPs



# What Has The DPW Already Done ?

- GIS mapping of storm sewer system, culverts, catch basins, outfalls (in-progress)
- Monitoring for illicit discharge in catch basins
- Inspections of outfalls and culverts (in-progress)
- Some public outreach (web site, social media)
- Water quality monitoring in ponds
- Street sweeping
- Review stormwater management systems in new development



- Designed outfall BMPs for 3 locations
- SWPPP plan and training for WWTP

# What Will Ayer Need to Do to Meet Permit Requirements?

- Deliver annual public education materials to various target audiences
- Write catchment investigation plan and perform dry weather screening within three years
- Modify local stormwater management bylaws and site plan review regulations
- Develop source reduction plans for impaired waters
- Compliance planning and implementation of Total Maximum Daily Load (TMDL) allocation
- Develop inventory of municipally owned land for future stormwater retrofit opportunities
- Write plan for good housekeeping activities and infrastructure maintenance/inspection
- Perform Stormwater Management System Inspections
- Track catch basin cleaning, construction, and erosion control inspection and maintenance
- Develop municipal facility Stormwater Pollution Prevention Plans (SWPPPs)



# EPA Estimated Costs to Implement

- Estimated average of 20% budget increase in cost to manage stormwater system
- **40%** of program funding is assumed to be used for street sweeping and catch basin cleaning
- **30 %** of program funding used for engineering and system operation and maintenance
- **18%** of program funding for planning, public education and other admin. requirements
- **12 %** of program funding to be used to track and remove illicit connections to the storm sewer





# Budget Impacts

- Capital Budget includes street sweeper, culvert, storm sewer and outfall improvements
- Operating budget impacts include:
  - Need to set up and manage permitting and inspections
  - DPW will need to spend time preparing NOI, required plans, bylaws, regulations and public education
  - Water quality sampling and lab costs
  - Increased catch basin cleaning cost
- Will need support from Conservation Agent, Building Inspector and IT





Questions?