Ferguson Township Municipal Separate Storm Sewer System (MS4)

Stormwater Management Program Review

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February 20, 2018 Board of Supervisors Meeting

NPDES - Phase II MS4 Permit

NationalPollutionDischargeEliminationSystem

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Municipal Separate Storm Sewer System



What Does Our Permit Require?

 Implement a Stormwater Management Program (including SWM Ordinance)
 Minimum Control Measures
 Track progress toward goals
 Document, Document, Document
 Report on our progress

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 Develop and Implement a Chesapeake Bay Pollution Reduction Plan (CBPRP)

Stormwater Management Program Minimum Control Measures

- 1. Public Education and Outreach
- 2. Public Involvement and Participation
- 3. Illicit Discharge Detection and Elimination

- 4. Construction Site Runoff Management
- 5. Post-Construction Stormwater Management
- 6. Pollution Prevention and Good Housekeeping

1. Public Education and Outreach



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- Develop a written
 Public Education &
 Outreach Program
 (PEOP)
- Send Out Educational Material & Track Who Gets It.

PEOP Strategies

- Newsletters 2 per year to all property owners
- Brochure "Stormwater Pollution Prevention" with all zoning permits
- Posters in lobby and main meeting room
- Spring Creek Watershed Map

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- Fact Sheets newsletter and website
- Storm Drain Stenciling (Option)

2. Public Involvement and Participation

- Develop Written Public Involvement/Participation Plan (PIPP)
- Provide Opportunities for Public Involvement,:
 - Spring Creek Watershed Cleanup Day
 - Inlet Stenciling Project

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 Hold 1 Public Meeting Per Year



PIPP Strategies for Notification

- Legal Notices of public meetings CDT
- CDT Advertisements
- **Optional Press Releases**
- -Website

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(www.twp.ferguson.pa.us/stormwatermanagement/)

- Newsletter

PIPP Strategies for Participation

Partner with Public Groups / Committees

- Clearwater Conservancy
- SCWC

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- Storm Drain Stenciling
- -Water Resources Monitoring Project
- -Volunteer Clean-Up Programs
- -Rain Barrel Workshop
- Public Meeting

3. Illicit Discharge Detection and Elimination



Report any sighting of illicit discharge to Township Engineer

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Permit Holders must test *dry weather* flow:

- Track down illicit discharge (IDDE)
- Ordinance allows for citation for noncompliance
- Maintain Storm
 System Map
- Report all findings

IDDE Strategies

Maintain Storm Sewer System Map

GIS Map

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- Update for Development / Capital Projects
- Prohibit Illegal Discharges
- Outfall Screenings
- Investigate Complaints
- Procede to Eliminate Illicit Discharge

MS4 System Map



MS4 System Map



4. Construction Site Runoff Management

This portion of our Stormwater Management Program is administered by DEP.

Memorandum of Understanding (MOU) with Centre County Conservation District (CCCD)

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5. Post-Construction SWMSP

 Requires BMP's (Best Management Practices)

Ordinance Requirements

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 Ownership/ Maintenance/ Inspection



PCSM Strategies

- Maintain Map of BMPs

- All Permitted BMPs since 2003
- Separate folders for each project

Inspection of BMPs

- Updated inventory (2017) 65 sites, 146 BMPs and counting.....
- Inspect 20% each year of permit cycle
- Enforcement per Ordinance

-Tracking

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6. Pollution Prevention / Good Housekeeping

- BMP#1 Develop a Written Pollution Prevention/Good Housekeeping Program
- BMP#2 Develop/Implement/Maintain Written Operation & Maintenance Program (**O&M**)
- BMP#3 Develop/Implement an Employee Training Program for Appropriate Topics

Training provided to: All municipal employees, contractors, elected officials, police & fire responders, volunteers and contracted personnel - ANNUALLY

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Pollution Prevention Strategies

- Fleet Maintenance Operations

- Fleet Fueling Operations
- Salt Storage / Application
- Road / Storm Sewer System Maintenance
- -Waste Collection

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– PPC / SPCC Program – new this year.

-Training Programs

Chesapeake Bay Pollution Reduction Plan (CBPRP)

Objective – Implement BMPs to produce tangible improvements to the quality of stormwater discharges in the Chesapeake Bay Watershed and impaired local waterways

Plan Components –

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- Describe Planning Area / Evaluate Pollutant Loading
 - Propose BMPs to reduce pollutants

Proposed PRP

- Completed study/plan development with consultant and MS4 Partners
 - Will be submitted with permit application (Feb 2018). Permit to be issued by June 2018
 - Determined requirement for reduction of pollutant loading by 10% (more in the future).
 - Identified BMPs to be implemented during permit cycle to address permit requirements.

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 Estimated plan costs are \$258,250 just for construction. Other costs are engineering, permitting, and right of way.

Other SWMP Considerations

Stormwater Fee Feasibility Study

- Consultant team working with staff and SWAC.
- Evaluate status of current infrastructure.
- Consider level of service models.
- Consider financing options.
- Conduct public meetings.

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Present feasibility findings to BOS.

MS4 – SWMP Review

Open Discussion

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