



Storm Sewer Utility

Town Council

October 12, 2015



Mission Statement

The Storm Sewer Utility is dedicated to improving health, safety and welfare in the Borough of Chambersburg by providing for the safe and efficient capture and conveyance of stormwater runoff resulting from development by enforcing the Borough's Stormwater Management Ordinance, by maintaining compliance with the Borough's municipal separate storm sewer system (MS4) permit and through construction and maintenance of the Borough's storm sewer system according to sound financial resource and capital improvements management.



Storm Sewer System

The Borough storm sewer system is comprised of the following:

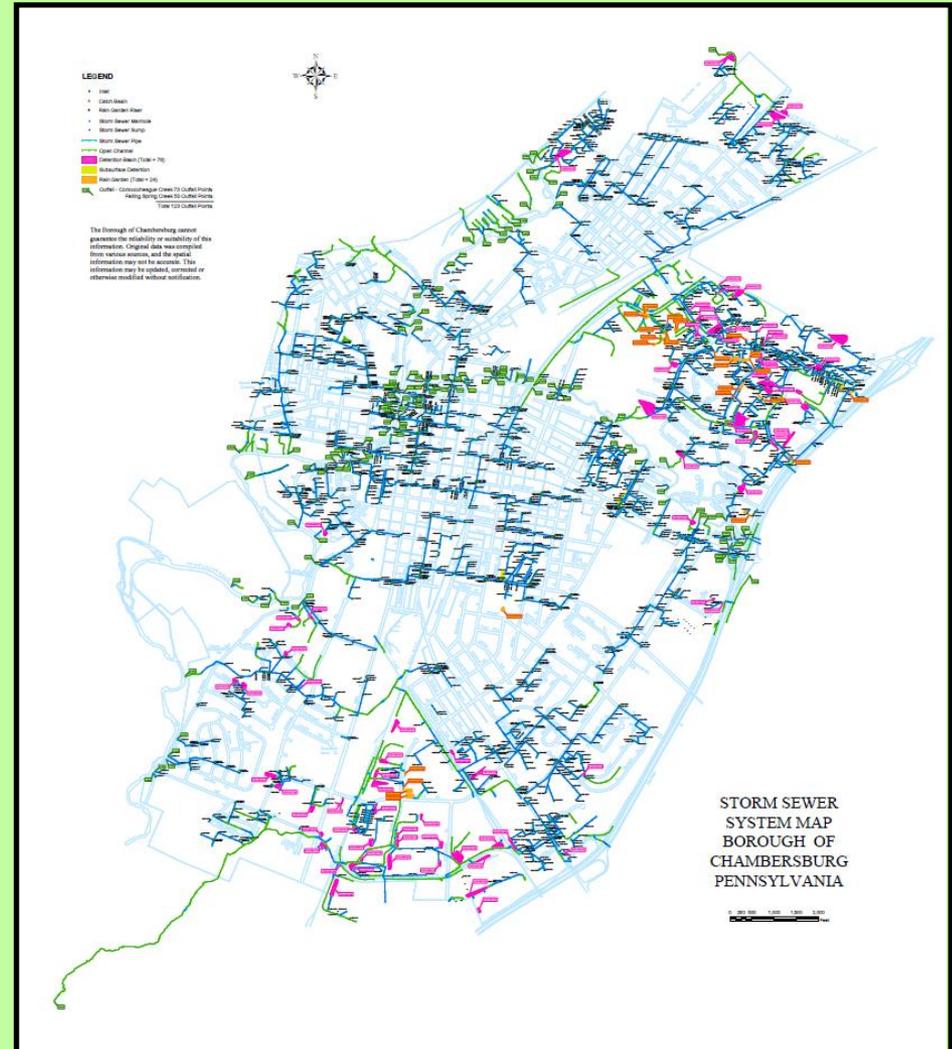
59.53 miles of pipe

2,367 inlets

123 outfalls to Conococheague Creek and Falling Spring Creek

101 stormwater basins and rain gardens

37 subsurface detention areas



size, parking lot runoff can also be “disconnected” by draining to a lawn area, rain garden or other on-site infiltration or treatment system. Realistically, all development in the Borough since 2004 that was designed according to the Stormwater Management Ordinance – and incorporates BMPs – could qualify for some type of credit. Development that occurred prior to 2004 could qualify for credit by retrofitting the property with BMPs.

PROPOSED SCHEDULE FOR STORM SEWER UTILITY IMPLEMENTATION

This report is intended to present a sustainable funding approach for the Borough’s stormwater management program for further review and consideration by Town Council. If a storm sewer utility is desired, the recommended schedule for implementation is outlined below:

YEAR 1 AND 2

- Adopt Ordinance establishing storm sewer utility to be managed by the Borough Manager and Land Use and Development Director.
- Hire a Storm Sewer System Manager who will responsible for day-to-day management of the storm sewer utility, storm sewer system and stormwater management program.
- Secure office space, purchase office equipment and vehicle for Storm Sewer System Manager.
- Administer MS4 Permit Minimum Control Measures and implement Chesapeake Bay Pollutant Reduction Plan.
- Enforce the Floodplain Management Ordinance.
- Hire GIS technician and purchase software to analyze impervious cover and establish ERU or hire an engineering firm to conduct the analysis.

YEAR 3 AND 4

- Evaluate storm sewer system maintenance needs and establish a capital improvement program and personnel plan to maintain system and implement program.
- Establish storm sewer utility rate structure based on ERU.
- Hire an engineering firm to establish a program to monitor and model stormwater system flow and recommend strategies to implement BMP's to address problem areas.
- Establish storm sewer utility credit program and Stormwater Credit Manual.
- Evaluate areas prone to flooding and establish corrective measures.
- Consider moving street sweeping and fall leaf collection operation from General Fund to storm sewer utility.

YEAR 5

- Implement rate structure based on ERU.
- Implement credit program.
- Implement capital improvements program.
- Hire personnel necessary to maintain system and implement capital improvements program.

Borough of Chambersburg Storm Sewer Utility Feasibility Report



Prepared for Town Council by
Jeffrey Stonehill
 Borough Manager/Director of Utilities
Phil Wolgemuth
 Assistant to the Borough Manager/
 Land Use & Development Director

October 13, 2014

January 1, 2015 began collecting
Storm Sewer Pollution Control Fee
 (\$3 per sanitary sewer connection)

MS4 Permit

The Borough municipal separate storm sewer system (MS4) operates under NPDES General Permit No. PAG 133704, of which coverage commenced on August 1, 2013 and will expire at midnight on July 31, 2018.



The MS4 Permit requires the Borough to operate a stormwater management program to address the following Minimum Control Measures:

- MCM 1. Public Education and Outreach on Stormwater Impacts
- MCM 2. Public Involvement and Participation
- MCM 3. Illicit Discharge Detection and Elimination
- MCM 4. Construction Site Stormwater Runoff Control
- MCM 5. Post-Construction Stormwater Management in New Development and Redevelopment
- MCM 6. Pollution Prevention and Good Housekeeping

MCM 1. Public Education and Outreach on Stormwater Impacts

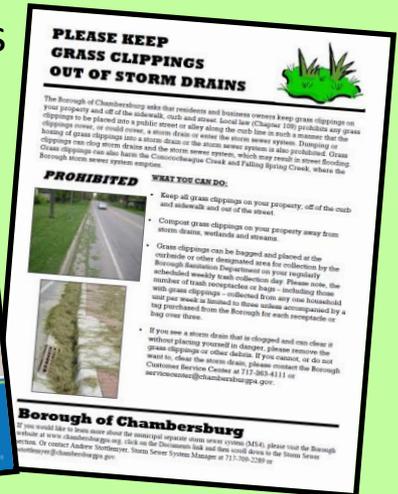
MCM 2. Public Involvement and Participation

2015

- 2014 Annual Report and 2015 Forecast
- Met with Wilson College staff to discuss MS4 Permit and storm sewer system
- Attended May of Caring Stream Clean-up
- Will attend Franklin County Watershed Association meeting on October 21, 2015
- Added more public information to the Borough website
- Updated 'An Overview of Borough of Chambersburg Stormwater Management Program' presentation

2016

- Improve the existing Public Education and Outreach Program and Public Involvement and Participation Program
- Conduct a public meeting to solicit public involvement and participation in the stormwater management program
- Continue outreach with residents, business owners, schools, colleges, civic organizations, watershed associations and local landscapers



MCM 3. Illicit Discharge Detection and Elimination

2015

- Updated Illicit Discharge Detection and Elimination Program
- Developed spreadsheet to document outfall field screening
- Updated GIS and map based on data collected as part of outfall field screening
- Hired Franklin Analytical, Inc. to provide storm water testing when necessary

2016

- Recommend promoting Rodney Shuman, GIS Technician from part-time to full-time to provide additional help with GIS and map
- Improve the Illicit Discharge Detection and Elimination Program by providing public education to detect and eliminate illicit discharges

MCM 4. Construction Site Stormwater Runoff Control

- The Franklin County Conservation District is responsible for this task according to a Memorandum of Understanding signed in 2009
- Will continue to participate in pre-construction meetings with Franklin County Conservation District and construction site operators

MCM 5. Post-Construction Stormwater Management in New Development and Redevelopment

2015

- Began Land Use Permit Application review for Stormwater Management Ordinance compliance
- Conducted 90 stormwater basin inspections
- Issued 20 violation notices for Stormwater Management Ordinance non-compliance
- Issued 5 violation notices for grass clippings in the street

2016

- Continue inspection of Best Management Practices (BMP's) during construction and afterward to ensure proper operation and maintenance
- Add to GIS and map new BMP's
- Consider BMP's when designing municipal infrastructure improvements
- Implement the Chesapeake Bay Pollutant Reduction Plan, when approved by DEP

**BOROUGH OF CHAMBERSBURG
LAND USE PERMIT APPLICATION**

The undersigned hereby applies for a Land Use Permit to build, remodel, or demolish a structure, erect a sign, or change the use of a building or lot in the Borough of Chambersburg. A site plan drawing must be included to show all property lines with distances to the proposed work or use area along with the location of all existing buildings on the property. Electric and plumbing plans must be included for commercial construction and change of use. Change of use must include a floor plan that shows use, setbacks, and minimum lot/width. All construction must include a plan showing the dimensions, original color and location. It is the applicant's responsibility to contact Pennsylvania Municipal Code Alliance, the Borough's state-certified third party code enforcement agency, to obtain a Borough Planning Permit, UCC Permit, Certificate of Occupancy, Fire/Alarm License or Retail Food Facility License to serve food to the public. There is no fee for a Land Use Permit however, fees associated with permits issued by Pennsylvania Municipal Code Alliance have been approved by Town Council as listed on the Master Fee Schedule that can be obtained at the Borough website.

Land Use Permit Application relates to:
 Borough of Chambersburg
 100 W. Second St
 Chambersburg, PA 17201
 Phone: 717-261-5232 Fax: 717-264-0224
 Website: chambersburgpa.gov

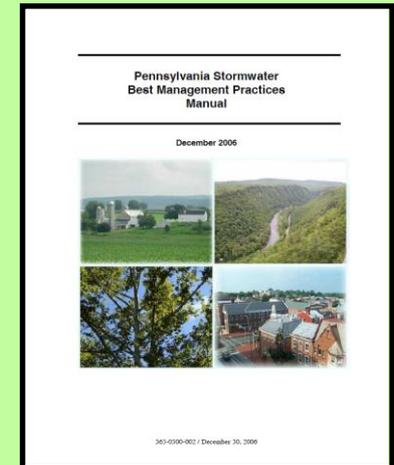
Third Party Code Enforcement Contact:
 Pennsylvania Municipal Code Alliance
 400 Myrtle Avenue
 Chambersburg, PA 17201
 Phone: 717-646-5566 Fax: 717-646-0506
 Website: pmcodealliance.com

PART 1 - TO BE COMPLETED BY APPLICANT (PLEASE PRINT)

Address where work is being done _____
 Contact Person's Name _____
 Contact Person's Address _____
 Contact Person's Phone Number _____ Cell Number _____
 Contractor _____ PA MIC # _____ Phone Number _____ Sign _____
 Type of Project: New _____ Addition _____ Demolition _____ Interior Commercial _____ Sign _____
 Change of Use? Type _____ Business Name _____
 Provide Brief Description of Project _____
 Lot Size _____ square feet/aces Parking Spaces _____
 Building Dimensions _____ Height _____ Estimated Cost _____
 Property Owner's Name (Please Print) _____
 Property Owner's Signature _____ Date _____

PART 2 - TO BE COMPLETED BY BOROUGH OF CHAMBERSBURG

Permit Granted: Yes _____ No _____ Date _____
 Reason for Denial _____
 Electric _____ Comments _____
 Engineering _____ Comments _____
 Gas _____ Comments _____
 Planning/Zoning _____ Comments _____
 Stormwater _____ Comments _____
 UCC Permit _____ Comments _____
 Borough Land Use Occupancy Permit Required: Yes _____ No _____
 Borough Planning Permit Required: Yes _____ No _____
 DEP Approved Sewage Planning Module Required: Yes _____ No _____
 Borough Electric Permit Required: Yes _____ No _____
 Fuel Metering Interconnection Application Required: Yes _____ No _____
 Borough Drainage Plan Required: Yes _____ No _____
 PMCA Fire/Alarm License Required: Yes _____ No _____
 PMCA UCC Permit Required: Yes _____ No _____
 PMCA Certificate of Occupancy Required: Yes _____ No _____
 PMCA Retail Food Facility License Required: Yes _____ No _____



MCM 5. Post-Construction Stormwater Management in New Development and Redevelopment



Private Property



Public Property



MCM 6. Pollution Prevention and Good Housekeeping

2015

- Started to identify and document all facilities and activities that are owned and operated by the Borough that have the potential for generating stormwater runoff to the MS4 (such as the Borough Garage, Service Center, Recreation Department facilities, etc.)
- Monitoring Hollywell Avenue Conveyance Swale in accordance with Corrective Action Plan filed with DEP
- Incorporated storm sewer system improvements into Capital Improvements Planning process

2016

- Meet with each department head to inventory all facilities and activities that are owned and operated by the Borough
- Develop and implement maintenance activities/schedules and inspection procedures to reduce the potential for pollutants from Borough facilities to reach the MS4
- Develop and institute an employee training program to ensure personnel understand and comply with storm sewer system maintenance and pollution prevention measures

Storm Sewer System Capital Improvements

2015

- Completed Harrison Avenue swale improvements project in conjunction with PennDOT Franklin County Maintenance
- Hired D.L. George & Sons Construction Company to complete the U.S. Route 11 inlet replacement project
- Worked with ARRO Consulting to finalize PA Department of Environmental Protection Permit Application for the North Fourth Street Streambank Restoration Project



2016

- Complete any necessary storm sewer system improvements before 2016 street improvements projects begin
- Complete Norland/Fifth Avenue storm sewer system improvements in conjunction with North Chambersburg Improvements Project
- Complete Pine Street storm sewer system improvements in conjunction with South Street Improvements Project
- Design and complete improvements necessary to alleviate flooding on Pine Court
- Complete the North Fourth Street Streambank Restoration Project
- Secure grant funding and begin design for the Rhodes Drive BMP Project

Storm Sewer System Budget

2015

- Storm Sewer Pollution Control Fee Revenue of \$203,124.64 through 9/30/15
- Estimated revenue of a little more than \$300,000 through 12/31/15.
- Largest expenditures in 2015 will be for Storm Sewer System Manager salary/benefits, office setup and training costs and Engineering Department services
- Largest capital improvements expenditure will be \$82,220.80 paid to D.L. George & Sons Construction Company to complete the U.S. Route 11 inlet replacement project
- Any unspent revenue to be transferred to Storm Sewer Capital Reserve

2016

- Storm Sewer Pollution Control Fee to remain at \$3 per sanitary sewer connection
- Increased cost for Engineering Department services if Rodney Shuman, GIS Technician is promoted from part-time to full-time to provide additional help with GIS and map
- Prepare Request for Proposals for consulting engineer services and for engineering analysis to establish Storm Sewer Pollution Control Fee based on impervious coverage for each parcel in the Borough in relation to the demand for stormwater management services
- Work with GMS Funding Solutions to secure grants

Storm Sewer Utility Quiz

1. What does MS4 stand for?
2. The Borough storm sewer system has how many miles of pipe?
 - a. 85
 - b. 59.53
 - c. 123
3. Which creeks do the Borough storm sewer system outfall to?
4. What is the amount of the Storm Sewer Pollution Control Fee proposed for 2016?
5. Who at the Borough should you call if you see someone pouring motor oil down a storm sewer system inlet?

