

Borough of Ephrata – Stormwater Management Program (SWMP)

Purpose & Objective

To comply with Ephrata Borough's Municipal Separate Storm Sewer System (MS4) Permit (PAG-133627) issued by the Commonwealth of Pennsylvania under 25 Pa. Code § 92a, and 40 CFR applicable to small MS4 communities, the Pennsylvania Clean Streams Law and the Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), as amended, 33 U.S.C. 1251, §§ et. Esq.

Current Program Goals

- **Develop a Nutrient/Sediment Pollutant Reduction Plan and CBPRP**
- **Update and categorization of Storm Sewer System components (asset management), and assess conditions and influences to system components (risk management)**
- **Evaluate sampling data for background trends, patterns & insight**
- **Re-develop and implement individual plans of the Minimum Control Measures (MCMs) with the intent to reduce risks and improve potentially negative influences to storm sewer infrastructure**
- **Reduce expenditures and commitments over the long-term relating to Ephrata Borough's permit obligation to ensure maintenance of stormwater management facilities and BMPs is occurring**

Six Minimum Control Measures of the SWMP

MCM #1 - Public Education & Outreach on Stormwater Impacts

BMP #1: Ephrata's written Public Education & Outreach Program (PEOP)

Continually seek out opportunities to develop and maintain partnerships both within & outside the Borough to provide education and materials to target audience groups via any number of delivery methods: Borough's web site, UB notices, newspaper & other publication articles, speaking engagements, membership participation, email correspondence, demonstrations, display tables or posters and facility tours highlighting Stormwater Water Management and its importance to Ephrata's wellbeing. The PEOP implement strategies by providing information with the intent to reduce risks and negative influences on the storm sewer system while attempting to protect the health and safety of the Borough's residents.

BMP #2: Maintain Lists of Target Audience Groups

Target Audience Groups identified in Ephrata Borough:

General Public – represents all citizens, businesses, etc. of the Borough

Borough Staff – implements the SWMP

Schools/Children – the future environmental stewards of our region

Public Officials – the decision-makers for our community

Neighboring Municipalities – the extended Cocalico Creek watershed region

Ephrata Area Chamber of Commerce – a conduit to the economic engines of our region

Developers/Remodelers/Contractors – develops or re-develops areas that may tie into the system

Private SWM Facility/BMP Owners – responsible for long-term maintenance of BMPs

IDD&E-related individuals/groups – individuals and groups the Borough encourages voluntary compliance

BMP #3: Annually publish general stormwater educational information, a general description of the

SWMP, and/or information about the Borough's stormwater management activities (pamphlet, website, flyer, or newsletter)

BMP #4: Distribute educational materials/information using at least **two different distribution methods each year**

to target audience groups (displays, posters, signs, pamphlets, booklets, brochures, radio, TV, newspaper, bill stuffers, posters, presentations, conferences, meetings, watershed groups, fact sheets, giveaways, etc.)

MCM #2 - Public Participation & Involvement

BMP #1: Ephrata's written Public Involvement Program (PIPP)

Encourage and promote activities that improve local water quality and protects infrastructure, engage in active education with target audience groups, and provide an ability for residents of Ephrata Borough to give input for SWMP development and implementation.

BMP #2: New Stormwater Management Ordinance adoption-public notice, review, input & feedback

BMP #3: Annual Public Meeting

Public meeting soliciting involvement, input, and participation from residents and target audience groups to discuss the summary of progress, activities, and accomplishments with the Stormwater Management Program's (SWMP's) implementation.

MCM #3 - Illicit Discharge Detection & Elimination (IDD&E)

BMP #1: Ephrata's written plan for detection and elimination of illicit discharges. . .

All processes and procedures for detecting, tracing, identification, removal, education, and enforcement of encountered and/or reported illegal dumping and illicit discharges to the Borough's system and local waterways.

BMP #2: Annually updated map showing all outfalls and names of surface waters receiving the discharges from the outfalls

BMP #3: Annually ensure the map includes all known roads, inlets, pipes, swales, channels, basins, and any other type of infrastructure that may be connected to the Borough's system Ephrata's mapping is GIS based and updated continually and stored on the cloud w/ the most up-to-date copy included with each Annual Report submission.

BMP #4: Dry-weather field screening of every outfall, with High Priority Areas screened once annually and all other outfalls screened once approximately every five (5) years.

BMP #5: Implement and enforce an ordinance that supports the SWMP and includes a prohibition of non-stormwater and illicit discharges to the MS4.

BMP #6: Educate public employees, business owners & employees, property owners, general public & elected officials about the IDD&E program **annually**.

MCM#4 - Construction Site Stormwater Runoff Control

BMP#1, 2, 3 & 4: Ephrata observes the PADEP statewide QLP for Stormwater Discharges Associated w/ Construction Activities. The Borough conducts select activities to ensure construction sites do not negatively impact the MS4, local waterways, or the health and safety of the residents.

MCM#5 - Post-Construction Stormwater Management (PCSM) in New & Redevelopment

BMP#1, 2 & 3: Ephrata observes the PADEP statewide QLP for Stormwater Discharges Associated w/ Construction Activities that includes a component to ensure SWM facilities and BMPs are properly installed during the construction phase.

BMP#4: Enact, implement & enforce an Ordinance addressing post-construction runoff from new & redevelopment projects detailing sanctions & penalties for non-compliance as allowed by law.

BMP #5: Develop & implement measures to encourage & expand LID practices. Also keep an inventory of projects since March 10, 2003, indicating LID BMP's used. Enact Ordinances consistent w/ LID practices & repeal inconsistent sections that conflict.

BMP #6: Insure adequate long-term operation of all private and public PCSM BMP's including those installed since March 10, 2003. Keep an inventory of BMPs by address location, owner, responsible party, phone # , email, type BMP, year installed, maintenance required, maintenance & inspection activities, assessment, updating as projects are reviewed, approved & constructed noting the likely hood of illicit discharges.

MCM#6 - Pollution Prevention & Good Housekeeping for Municipal Operations & Maintenance

BMP#1: Identify and document all facilities and activities owned/operated by the Borough that have the potential for generating and/or polluting stormwater run-off.

BMP #2: Ephrata's written Operations and Maintenance (O&M) Plan. All processes, procedures, policies, schedules, and similar documents detailing approaches and BMPs complementing operational and maintenance activities to reduce and/or prevent stormwater pollution.

BMP #3: Update and conduct an **annual** employee training program with a goal of helping eliminate and/or reduce stormwater pollution that may result from operational and maintenance activities.

Impaired Waters Plan of the SWMP

Nutrient/Sediment Pollutant Reduction Plan and CBPRP: Develop and implement control measures and BMPs that reduces nutrient and sediment loadings from discharges and observed in the local waterways through established impairments.

Pathogens Pollutant Control Measures (PCMs): develop and implement control measures that addresses and/or reduces bacteria and pathogens observed in the local waterways through established impairments.