pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PAI132210**
Facility Type	**MS4**	APS ID	**489508**
Permit Type	**Individual**	Authorization ID	**1327625**

NPDES PERMIT FACT SHEET
MS4s

Applicant and Facility Information

Applicant Name	**Bethlehem City**	Facility Name	**Bethlehem City MS4**
Applicant Address	10 E Church Street	Facility Address	Urbanized Area Bethlehem 3
	Bethlehem, PA 18018-6005		Bethlehem, PA
Applicant Contact	Sara Aldarando	Facility Contact	Sara Aldarando
Applicant Phone	(610)849-2787	Facility Phone	(610)849-2787
Client ID	74720	Site ID	619042
SIC Code	9199	Municipality	Bethlehem City
SIC Description	Public Admin. - Genral Government, Nec	County	Northampton
Date Application Received	September 15, 2020		
Date Application Accepted			

Purpose of Application: INDIVIDUAL MS4 PERMIT RENEWAL

Internal Review and Recommendations

For this MS4 permittee, a PRP is required to address sediment discharge to multiple receiving waters. The planning area assessed in the PRP consists of the urbanized area in the City of Bethlehem which drains to the impaired watercourses (Saucon Creek, East Branch Saucon Creek, Nancy Run, Monocacy Creek and Lehigh River) excluding PennDOT right-of-ways. The loading rates for pervious and impervious cover for the City of Bethlehem were taken from PADEPs "PRP Instructions". In accordance with PADEP's "PRP Instructions", the City chose to claim 'credit' for existing structural BMPs to reduce the existing sediment load estimate. The total annual credit generated by the existing BMP's equals 245,532 lbs/yr. Taking the annual credit for existing basins into account, the existing TSS load from the planning area is calculated as: 12,447,253 lbs/yr– 245,532 lbs/yr = **12,201,721 lbs/yr**

PA DEPs MS4 Requirements Table references "siltation" and "organic enrichment/ low D.O." for the City's impaired watercourses. Therefore, the City's minimum required sediment reduction is 10%.
The City's minimum required reduction is: 12,201,721 lbs/yr x 0.10 = **1,220,172.1 lbs/yr**

The BMPs proposed to meet the required reduction are as follows:

1. Storm Sewer System Solids Removal
a. This will consist of vacuum cleaning existing inlets along City Roads and within City owned parking lots located within the PRP Planning Area. The City will document the actual weight of sediment vacuumed during the first year of the permit and the PRP plan will then be updated accordingly.

2. Street Sweeping
a. This consists of using sweeping equipment on a programmed basis to remove larger debris material and smaller particulate pollutants from the surface of City streets. The removal of these pollutants prevents the material from clogging the

Approve	Deny	Signatures	Date
X		*Paul R. Grella* Paul R. Grella, E.I.T. / Senior Civil Engineer Hydraulic	June 15, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	6-15-22

Internal Review and Recommendations

stormwater management system and washing into receiving waters. The City will document the actual weight of sediment removed via street sweeping during the first permit year in order to update the PRP accordingly.

3. Retrofitting existing Dry Detention Basins into Dry Extended Detention Basins
a. This consists of converting existing dry detention basins into dry extended detention basins. This will increase the BMP effectiveness from 10% to 60%. If it is determined during the design process that retrofitting a particular basin is not feasible, the PRP will be updated accordingly to achieve the minimum required TSS reduction.

4. Infiltration Basin
a. This consists of implementing a shallow, impounded area designed to temporarily store and infiltrate stormwater runoff in existing open space. It will act to reduce stormwater runoff volume and to reduce pollution to the City's storm sewer.

5. Raingarden
a. This consists of planting a shallow excavated surface with native vegetation that is tolerant of hydrologic variability, salts and environmental stress. The garden will allow runoff to pool on the surface and create pollution reduction by filtering sediment at the mulch layer. Incorporating rain gardens will help enhance the aesthetics of the City while providing effective pollution reduction.

6. Streambank Restoration
a. This consists of projects to restore one section (360 feet in length) of Saucon Creek to reverse the effects of erosion.

7. Constructed Wetland
a. This consists of creating shallow marsh systems and planting with emergent vegetation to treat stormwater runoff. It will act to reduce stormwater runoff volume and to reduce pollution to the City's storm sewer.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.