



City of Easton

Pollutant Reduction Plan

July 2018

Last Revised: April 2023

City of Easton
123 South Third Street
Easton, Pennsylvania 18042

**Prepared for Submittal with National Pollutant Discharge Elimination System
(NPDES) Individual Permit to Discharge Stormwater from Small Municipal
Separate Storm Sewer System (MS4) Application**

City of Easton, PA

Pollutant Reduction Plan

July 2018

Table of Contents

Introduction	1
A. Public Participation.....	2
B. Map.....	2
C. Pollutants of Concern.....	3
D. Determine Existing Loading for Pollutants of Concern	3
E. Select BMPs to Achieve the Minimum Required Reductions in Pollutant Loading.....	4
F. Identify Funding Mechanisms.....	5
G. Identify Responsible Parties for Operation and Maintenance of BMPs.....	6

Appendices

Appendix A	Public Participation Documentation
Appendix B	PRP Planning Area
Appendix C	Proposed BMP Documentation

City of Easton, Pennsylvania

Pollutant Reduction Plan

July 2018

Introduction

The City of Easton is located within Northampton County in eastern Pennsylvania, at the confluence of the Bushkill Creek and the Lehigh River with the Delaware River. The City is classified by the Pennsylvania Department of Environmental Protection (PADEP) as an owner/operator of a Municipal Separate Storm Sewer System (MS4). The City is authorized to discharge from its MS4 to Waters of the Commonwealth through compliance with the requirements of an MS4 Individual Permit.

The City of Easton is required to apply to renew coverage under its MS4 permit in August 2018 in advance of expiration in January 2019. The renewal package includes the City's commitment to implementing six Minimum Control Measures (MCM) across the City, submitting annual reports to PADEP, and maintaining stormwater management ordinances. Further, since PADEP has listed the Lehigh River as impaired by siltation from urban runoff and storm sewers, the City's permit application must also include a Pollutant Reduction Plan (PRP) for sediment discharging from the MS4 to the Lehigh River. **Figure 1** presents the general extent of the Lehigh River watershed within the City in blue.

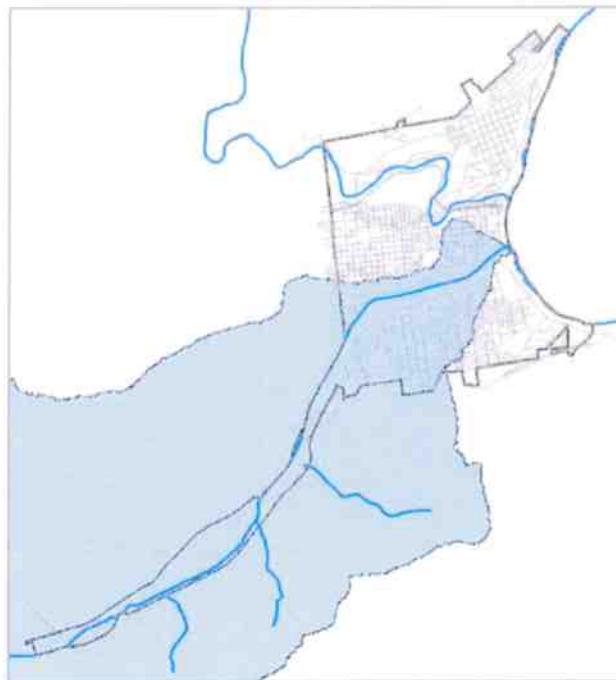


FIGURE 1: LEHIGH RIVER DRAINAGE AREA WITHIN THE CITY OF EASTON

This PRP was prepared in accordance with guidance documents provided by PADEP, including:

- MS4 Requirements Table (Municipal), revised March 5, 2018
- PRP Instructions (3800-PM-BCW0100k), revised March 2017
- BMP Effectiveness Values (3800-PM-BCW0100m), dated May 2016
- Pollutant Aggregation Suggestions for MS4 Requirements Table Instructions, dated April 4, 2017
- PRP Development Process Summary, dated June 9, 2017
- MS4 NPDES Permits Frequently Asked Questions (FAQ), revised April 5, 2017
- Considerations of Stream Restoration Projects in Pennsylvania for eligibility as an MS4 Best Management Practice, dated June 22, 2017
- Pollution Reduction Plan: A Methodology, undated

A. Public Participation

The City of Easton published a public notice in the Express Times newspaper that described the PRP and the details of the public comment period. The draft City of Easton PRP was presented at a public meeting on May 23, 2018 at Easton City Hall at a regularly scheduled meeting of City Council. The PRP was also made available for review at the City's Public Works Office located at 123 S. 3rd Street Easton, PA 18042 and is available on the City website at www.easton-pa.gov. Written comments could be submitted in-person at the Public Works Office or may be submitted via email to publicworks@easton-pa.gov. The City invited public comment through June 29, 2018. Documentation of the public comment process is provided in **Appendix A**. No public comment was received during the public comment period.

The City published a public notice in the Express Times newspaper inviting public comment on the proposed revisions to the PRP on XXXXXX. Proposed revisions included the addition of three new projects identified to help satisfy the City's pollution reduction requirement. Public comments were accepted for 30 days from the date of public notice. Documentation of this public comment process and the City's integration of them into the PRP is provided in **Appendix C**.

B. Map

Under the MS4 permit, the City of Easton is responsible for all areas draining to a stormwater outfall owned or operated by the City that is located within the 2010 Census Urbanized Area. The entirety of the City lies within an Urbanized Area. The City has developed a map of its stormwater infrastructure based on visual inspections of above ground features. This map was used as the basis for identifying the City's regulated MS4 outfalls. It was also used to determine the planning area for the Lehigh River PRP (**Appendix B**).

The PRP planning area does not include land area which does not discharge through the City's MS4. The following types of drainage areas within the Lehigh River watershed in the City were excluded from the PRP planning area consistent with PADEP guidance. This exclusion of these portions of the Lehigh River drainage area is referred to as "parsing."

1. **PennDOT Discharge Area.** As PennDOT is authorized to discharge under their own MS4 permit. The PRP planning area does not include the area of the following PennDOT-operated roads:

- a. S. Delaware Drive east of St Johns Street
- b. Lehigh Drive

In addition, those areas of the City that discharge through a PennDOT outfall without ever discharging into or through the City's MS4 are also excluded from the PRP planning area.

2. **Industrial Stormwater Discharge Permitted Facilities.** No parcels operating under an industrial stormwater general permit (PAG-03), industrial stormwater individual permit, or No Exposure exemption were found following a search PADEP's eFacts website (March 2018 search). Therefore, no industrial stormwater permittees have been parsed from the PRP planning area.
3. **Direct Dischargers.** Land area discharging directly to the Lehigh River as sheet flow or through a privately-owned storm sewer system without entering Easton's MS4 were not included in the PRP planning area.

The drainage area discharging through Easton's MS4 outfalls were delineated to determine the Lehigh River PRP planning area as shown in **Appendix B**.

C. Pollutants of Concern

The MS4 Requirements Table (Municipal) developed by PADEP, dated March 5, 2018, lists the Lehigh River as a waterbody that requires a PRP for siltation. The Lehigh River in Easton was determined to be impaired based on PADEP assessments of the biological, chemical, and physical condition of the stream. These streams were assessed in 2015 and 2016. For more information about PADEP's stream assessment program, visit <http://www.depgis.state.pa.us/macroinvertebrate/index.html>. Sediment or siltation is often considered a stressor that impacts the health of streams and benthic macroinvertebrates; however, PADEP has not performed a Total Maximum Daily Load assessment for streams or rivers in Easton to quantify the stressors and load allocations.

In order to comply with its next MS4 permit set to begin in January 2019, the City is required to achieve a 10% reduction in sediment discharge within the five-year permit term.

D. Determine Existing Loading for Pollutants of Concern

The existing loading for sediment in the Lehigh River is based on the simplified method developed by PADEP. The loading rate in pounds per acre per year for each land use type (impervious developed, pervious developed, and undeveloped lands) was taken from Attachment B of PADEP's PRP Instructions and is summarized in **Table 1**.

Table 1 - Existing Sediment Loading Rate Summary

Land Cover	Sediment Loading Rate (lb/acre/year)
Impervious Developed	1,839
Pervious Developed	264.96

Table 2 summarizes the existing pollutant loading for the Lehigh River drainage area within the City using the PADEP simplified method. Consistent with PADEP's Statewide MS4 Land Cover Estimates, the percentage of land cover that exists as impervious area within the City of Easton is assumed to be 47%.

Table 2 - Existing Sediment Loading Summary

Land Cover	Acres	Sediment Loading Rate (lb/acre/year)	Sediment Load (lb/year)	Sediment Load (tons/year)
Impervious Developed (47%)	318.7	1,839	586,102	293.1
Pervious Developed (53%)	359.4	264.96	95,225	47.6
Total	678.1	-	681,327	340.7

E. Select BMPs to Achieve the Minimum Required Reductions in Pollutant Loading

The City conducted an evaluation of opportunities to implement Best Management Practice (BMP) to achieve the minimum required 10% reduction of sediment discharged from the City's MS4. This minimum required sediment reduction is 68,133 lbs/year, or 34.1 tons/year.

The BMPs summarized in **Table 3** are being tentatively proposed to meet the required reduction in sediment. A map of the Lehigh River drainage area within Easton, City-owned MS4 outfalls, the PRP planning area, and the location of each proposed BMP is provided in **Appendix B**. Information on the capacity of each BMP to reduce sediment discharge is included in **Appendix C**.

It should be noted that the selection of BMP's to this point is based upon the potential of certain properties within the drainage basin to provide sediment removal in accordance with the requirements of the MS4 program. The site selections can be changed and/or amended over time based upon actual field survey or issues regarding property usage.

TABLE 3: BMP SUMMARY TABLE

ID	Location	BMP Type	Est. Sediment Load Reduction	
			(lb/yr)	(tons/yr)
1	4th Street ROW	Bioretention/Raingarden/Filtering Practices	1,768	0.9
2	4th and Church Parking Garage	Green Roof	515	0.3
3	Centre Square	Bioretention/Raingarden/Filtering Practices	3,054	1.5
4	3rd Street ROW	Bioretention/Raingarden/Filtering Practices	482	0.2
5	DaVinci Center	Bioretention/Raingarden/Filtering Practices	2,894	1.4
6	S. 3 rd Street Triangle	Bioretention/Raingarden/Filtering Practices	482	0.2
7	County Parking Lot	Bioretention/Raingarden/Filtering Practices	2,894	1.4
8	Lehigh Drive Waterfront	Bioretention/Raingarden/Filtering Practices	2,411	1.2
9	Train Station	Bioretention/Raingarden/Filtering Practices	965	0.5
10	St. John's Street ROW	Bioretention/Raingarden/Filtering Practices	965	0.5
11	St. Joseph Street Park	Bioretention/Raingarden/Filtering Practices	6,752	3.4
12	Mauch Chunk Park	Bioretention/Raingarden/Filtering Practices	2,251	1.1
13	Easton Yards	Bioretention/Raingarden/Filtering Practices	8,681	4.3
14	Cheston Pioneer Park	Bioretention/Raingarden/Filtering Practices	2,251	1.1
15	Cheston Elem School Field	Bioretention/Raingarden/Filtering Practices	9,003	4.5
16	Cheston Elem School Parking	Bioretention/Raingarden/Filtering Practices	11,093	5.5
17	Dutchtown/Walnut Street Park	Bioretention/Raingarden/Filtering Practices	322	0.2
18	County Juvenile Probation Ctr	Bioretention/Raingarden/Filtering Practices	3,858	1.9
19	County Criminal Admin Bldg	Bioretention/Raingarden/Filtering Practices	804	0.4
20	Water Quality Inlets (17)	Filtering Practices	6,832	3.4
21	Canal Wastegate Channel	Stream Restoration	19,474	9.9
22	Canal Middle Lock	Bioretention/ Raingarden/ Filtering Practices	2,160	1.1
23	Hilton Street Basin	Dry Extended Detention Basin	15,071	7.5
			Total	104,982
				52.4

F. Identify Funding Mechanisms

The City intends to pursue a variety of grant opportunities to fund the additional projects that may include:

- Growing Greener Watershed Protection Grants
- Coastal Zone Management Grant Program
- Nonpoint Source Implementation Program Grants (Section 319)
- Pennsylvania Infrastructure Investment Authority – Clean Water State Revolving Fund
- Community Development Block Grants
- Watershed Restoration and Protection Program

The City currently finances stormwater projects and grant matches through its general fund.

G. Identify Responsible Parties for Operation and Maintenance of BMPs

The City of Easton Public Works Department will be responsible for the operation and maintenance of the proposed BMPs following implementation. If BMPs are installed on property not owned by Easton, the City may enter into agreements with the property owner that identify BMP operations and maintenance responsibilities. If there is structural failure of a project feature, the City will evaluate the cause of the failure and modify the design or construction methods if necessary.

Typical operation and maintenance activities for the proposed projects include:

- Post construction inspection to verify that BMPs are installed as designed;
- Removal of trash and debris that accumulates in BMPs;
- Inspection of stormwater conveyance network serving the BMP and removal of debris and sediment;
- Evaluation of continuing ability for runoff to infiltrate into infiltration BMPs;
- Vegetation management;
- Inspection of vegetation and deposition of debris after significant storm events;
- Regular inspection of deposition of sediment for removal; and
- Replanting of vegetation, soil stabilization, and debris removal, as necessary.

Appendix A

Public Participation Documentation

4546502

AFFIDAVIT

State of Pennsylvania
County of Northampton

PUBLIC NOTICE

The City of Easton is preparing a permit application for an Industrial Stormwater Permit to be submitted in August of 2018 to the PA Department of Environmental Protection (PADEP) for the Federal Clean Water National Pollutant Discharge Elimination System (NPDES), PA Clean Streams Law and the PADEP-issued Municipal Separate Storm Sewer System (MS4) Permit for municipalities in watersheds with Pollution Reduction Plan (PRP) requirements. This PRP prioritizes measures and sets out the City's will implement in coming years to reduce sediment discharge to the Lehigh River.

A Public Meeting to present a draft PRP will be held during City Council's regularly scheduled meeting on May 23, 2018 at Easton City Hall, 123 S. 3rd Street. A 30-day Public Comment Period will occur from May 23, 2018 to June 29, 2018 in order to allow members of the public to review the draft PRP and submit written comments. A copy of the plan will be available on or before May 23, 2018 on the City website at www.eastonpa.gov. Written comments may be submitted to the City Engineer, Easton City Hall, 123 S. Third Street, 3rd Floor and a hard copy of the document will also be available for review in person at the same address during normal business hours. All comments on the plan must be received by close of business on June 29, 2018.

Maureen Horvath, being duly sworn, says that (s)he is connected with The Express Times, a newspaper circulating in Lehigh and Northampton Counties, Pennsylvania, and that a notice of which the annexed is a true copy was published on the following dates in said newspaper:

Maureen Storoth

Maureen Horvath

Sworn to before me this

day of July, 2016.

NOTARY PUBLIC

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Minutes of the Council of the City of Easton, Pa.

May 23, 2018

Easton, Pa
Wednesday
May 23, 2018
6:00 p.m.

City Council met in stated session at the above date and time, at the Easton Area Community Center, S. 9th and Washington Street, Easton Pa., to consider any business that may lawfully be brought before the body.

The invocation was given by Mayor Panto, followed by the Pledge of Allegiance.

ROLL CALL

Present: Brown, Edinger, Melan, O'Connell, Ruggles, Vulcano, Panto (7)
Absent: None (0)

Also in attendance were Thomas A. Hess, City Clerk, William Murphy, City Solicitor, and Luis Campos, City Administrator. There were eight (8) other persons present.

APPROVAL OF AGENDA

On motion of Dr. Ruggles and Mr. O'Connell the Agenda was approved by the following vote:

Yea: Brown, Edinger, Melan, O'Connell, Ruggles, Vulcano, Panto (7)
Nays: None (0)

ACTION ON MINUTES

On motion of Mr. Brown and Mr. O'Connell, the May 9, 2018 Council meeting minutes, as submitted, were approved by the following vote:

Yea: Melan, O'Connell, Ruggles, Vulcano, Panto, Brown (6)
Nays: None (0)
Abstain: Edinger (1)

RESOLUTION

The next item on the Agenda was a proposed Resolution congratulating Police Sergeant Joseph Alonzo for being chosen as the "Police Officer of the Year".

The following Resolution was introduced by Mr. Melan

68-2018

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

The above Resolution was adopted on motion of Mr. Melan and Mr. Brown by the following vote;

Yea: Brown, Edinger, Melan, O'Connell, Ruggles, Vulcano, Panto (7)

Nays: None (0)

All Council members thanked Sgt. Alonzo for his service, dedication, sacrifice of time from his family wished him well, and thanked the Police Department Officers for all of their hard work.

Sgt. Alonzo was presented with a framed resolution.

PRESENTATIONS
Covenant of Mayors Green House Gas Emissions Target Setting
&
City of Easton Pollutant Reduction Plan

Tina Roseberry, Director of Planning said that the presentation was for the Global Covenant of Mayors Green House Gas Emission Target Setting, and would be given by Dr. Kathryn Semmens, of the Nurture Nature Center, who the City has been working with over the last two (2) years. Mrs. Roseberry gave a background on this matter and the goal of 80% reduction in the City's emissions by 2050.

Dr. Semmens, Science Director of the Nurture Nature Center, said that the City was participating in the Global Covenant of Mayors to become more become more resilient and sustainable in the face of climate change, and went over the following:

- Global Covenant of Mayors
- Global Covenant Timeline
- Greenhouse Gas Emissions Reduction Target
- Rationale
- Observed Changes and projected changes
- Lafayette College Emissions Goals
- Cities using baseline year reduction target
- Where the City is currently, a breakdown of emissions by sector, a breakdown of electricity and natural gas use and residential energy efficiency.
- Strategies for achieving target, near term, mid-term, and long term
- How the City gets to the 80% reduction by the 2050 target
- Reduction strategies
- A Climate Action Plan
- Community and City natural gas use, electricity use, City fleet use and Lafayette College's use.

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

Mrs. Roseberry spoke regarding the proposed Climate Action Plan, and said that later in the meeting there would be a proposed Resolution for adopting Greenhouse Gas Emissions Reduction Goals.

Council members made comments and asked questions regarding the creation of the Climate Action Plan, Ordinances that may have to be amended or created on this matter, and the cooperation received from Lafayette College and their students.

The Mayor informed everyone that the City had just received the LEED certification for City Hall, and spoke regarding all of the energy efficient products that are placed in homes that the City rehabilitates.

At this time David Hopkins, Director of Public Services, gave a presentation and some of the major points on the City of Easton's Draft Pollutant Reduction Plan, which was prepared for submittal with National Pollutant Discharge Elimination System (NPDES) Individual Permit to Discharge Stormwater from Small Municipal Separate Storm Sewer System (MS4) Application, and the need and requirement of this plan.

Mr. Hopkins said that a Public Notice was published on May 19, 2018 informing the public of this Public Meeting and that a 30-day Public Comment period, on this proposed draft plan, would occur from May 23, 2018 to June 29, 2018, to allow members of the public to review the draft copy of the plan and submit written comments. He said that a copy of the plan would be available on the City's website and that a copy of the plan would also be available at City Hall for public review.

Councilmembers made comments and asked questions regarding this matter, which were answered by Mr. Hopkins.

PUBLIC COMMENT

There were no comments from the audience.

CONSENT AGENDA

The following items were adopted on motion of Dr. Ruggles and Mrs. Vulcano, by the following vote:

Bill 18, (Ordinance 5636) Amending Sections contained in Chapter 135, Records, Public, of the Code of the City of Easton, Pa. This Bill makes minor amendments to sections in Chapter 135, Records, Public of the City's Codes.

Minutes of the Council of the City of Easton, Pa.

May 23, 2018

Bill 19, (Ordinance 5637) Amending Section 285-29 D (2), of Chapter 285, Fees, of the Code of the City of Easton, Pa. This Bill amends Section 285-29 D (2) of Chapter 285, Fees, regarding immobilized vehicles.

Resolutions 69-2018 through 76-2018 which approved Certificates of Appropriateness for 123 S. 3rd, 52 S. 4th, 120 S. 6th, 516 Church, 345 Ferry, 414 Northampton, 601 Northampton and 130 Spring Garden Streets.

Yea: Brown, Edinger, Melan, O'Connell, Ruggles, Vulcano, Panto (7)

Nays: None (0)

REPORTS RECEIVED BY COUNCIL

There were no reports received by Council:

REPORTS OF COMMITTEES

Mr. Brown, Chairman of the Finance Committee, spoke regarding legislation that he would have for later in the meeting for amending the parking garage fees for monthly on the first floor of the Pine Street Parking Garage.

Mrs. Vulcano, Chairman of the Economic Development Committee, had no report.

Mr. O'Connell, Chairman of the Planning and Code Committee, reported that a Planning Committee meeting had been held on May 22, 2018, and that certain Zoning Code amendments were discussed. Mr. O'Connell read a statement regarding a Residential Antidisplacement and Relocation Assistance Policy. (see attachment).

Mrs. Roseberry said that DCED funds for the City's home programs would not be awarded without a Displacement Policy in effect.

Mayor Panto said that no one has been displaced since the Urban Renewal era.

Dr. Ruggles asked if there was an established plan and if not who would draft the policies that are required.

Mrs. Roseberry said that she felt that this would fall under the Redevelopment Authority and said that the City is awarded CDBG funds and then the Redevelopment Authority administrators those program funds. She said that the Redevelopment Authority would be in charge of assisting those who might need relocation.

Mayor Panto said that if the City has a policy that no one would be displaced then noting else needed to be done. He said that the City's mission has been never to displace anyone. He said

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

that the only homes that have been rehabilitated have been vacant properties that were blighted, that persons, who were 80% medium income were placed in there. He also asked who would be making other policies that were required.

Mrs. Roseberry said that the City was just starting out with the proposed Resolution, that the granting agency was requiring, and felt that they would be working with Council and the Redevelopment Authority on what was appropriate for the City.

Mr. Melan asked for the timeline to implement the needed policies.

Mrs. Roseberry said that she had to have a policy into DCED and the grant award would be awarded in the next month or two.

Mr. Melan said that it seemed that the City has thirty (30) days to implement policies and who would do this.

Mrs. Roseberry said that he was correct and that the Redevelopment Authority would be responsible for putting those policies together.

Mr. Melan asked for an update on this matter within the next two weeks before the next Council meeting regarding the policies.

Mr. O'Connell asked if the Redevelopment Authority has been apprised of this duty.

Mrs. Roseberry said not at this time.

Mr. Melan, Chairman of the Public Safety Committee, had no report.

Dr. Ruggles, Chairman of the Public Works Committee, had no report.

Mr. Edinger, Chairman of the Administration Committee, reported that an Administration Committee meeting had been held on May 23, 2018 and building security, discrimination & harassment training, changes in health care, the Pine Street Garage, a Wellness Fair, the management of the West Ward Community Gardens, an Memorandum of Understanding between the City and the GEDP, Nixel, Lafayette College and the cleaning of the 2nd and 3rd floors of City Hall had been discussed.

Mr. Melan said that based on the conversation regarding Nixel, at last nights Committee meeting, he requested an update within the next two weeks at an Administration Committee meeting on policies regarding the Nixel program.

Mr. Campos, City Administrator, said that they would update and would be going over the operation and the Standard Operating Procedures (SOP) including defining what constitutes a

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

Nixel update. He said that it was appropriate to have an SOP for each of the departments which would outline what the type of an incident that the City will issue a Nixel alert.

Mr. Melan asked that Mrs. Hart also make a presentation on ideas that the City could implement some additional techniques for increases in Nixel subscriptions.

Dr. Ruggles asked Mr. Hopkins to give an update on the closing of Bushkill Drive from Dietrich Road to Pearl Street, which he did.

Mr. Murphy, City Solicitor reported that he and Mr. Campos had appeared before the Northampton County Revenue Appeals Board seeking exemption for the Old Days Inn property, which was purchased by the City and annexed to be used for City vehicles for maintenance and also two (2) lots located on N. 611 just south of Eddyside which were purchased to facilitate the use of the pump station because the City was using the owners property, for City vehicles, to enter the property to maintain the pump station.

Mayor Panto said that the City was awarded a \$310,000 Home Grant which would help the City to rehabilitate more homes in the City.

CORRESPONDENCE

The following item was received by Council:

- (a) A letter from State Representative Freeman regarding Resolution 51-2018, for the lowering of the penalty for possession of a small amount of marijuana.

UNFINISHED BUSINESS

There was no unfinished business.

NEW BUSINESS

A copy of a December 18, 2017 memorandum, regarding a stop Sign Analysis for High and Hamilton Streets, was received from Joseph Mauro, City Engineer.

Bill 20, Amending Ordinance 3976, was introduced by Mr. Melan and ordered processed for adoption.

This Bill would establish a Stop Intersection on Hamilton Street, southbound, with the intersection of High Street.

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

Bill 21, Amending Article III, Traffic Control Map, of Chapter 560, Vehicles and Traffic, of the Code of the City of Easton, Pa. was introduced by Mr. Melan and ordered processed for adoption.

This Bill would create a “15 Minute Parking Pick-up 12:00 p.m. – 10:00 p.m. zone on the North side of the 1000 block of Northampton Street at the first legal parking space east of N. Warren Street.

Bill 22, Amending Section 285-42 A (2) (b), of Section 285-42, Pine Street Garage and South Third Street Garage fees, of the Code of the City of Easton, Pa. was introduced by Mr. Brown and ordered processed for adoption.

This Bill would amend the fee for monthly parking on the first floor of the Pine Street garage from \$100 to \$70.

Bill 23, Amending Ordinances 4295, was introduced by Mr. Melan and ordered processed for adoption.

This Bill would amend the hours for the 2 15 Minute Parking zones on the Northside of the 500 block of Burke Street from 8:00 a.m. – 10:00 p.m. to 7:00 a.m. to 5:30 p.m.

The next item on the Agenda was a proposed Resolution which would authorize the adoption of a Residential Antidisplacement Assistance Policy.

The following Resolution was introduced by Mr. O'Connell:

77-2018

The above Resolution was adopted on motion of Mr. O'Connell and Mrs. Vulcano by the following vote:

Yea: Ruggles, Vulcano, Panto, Brown, Edinger, Melan, O'Connell (7)
Nay: None (0)

The next item on the Agenda was a proposed Resolution which would approve a sixty (60) month Lease/Purchase Option with Pitney Bowes for the City's mailing machine.

The following Resolution was introduced by James Edinger:

78-2018

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

The above Resolution was adopted on motion of Mr. Edinger and Mr. Brown by the following vote:

Yea: Vulcan, Panto, Brown, Edinger, Melan, O'Connell, Ruggles (7)
Nays: None (0)

The next item on the Agenda was a proposed Resolution which would adopt the Greenhouse Gas Emissions reduction goals.

The following Resolution was introduced by Mr. O'Connell:

79-2018

The above Resolution was adopted on motion of Mr. O'Connell and Mr. Edinger by the following vote:

Yea: Panto, Brown, Edinger, Melan, O'Connell, Ruggles, Vulcan (7)
Nays: None (0)

Mayor Panto thanked Council for supporting this matter.

A May 15, 2018 memorandum, regarding Council Agenda Items, was received from David Hopkins.

The next items on the Agendas were proposed Resolutions which would approve a Cash Escrow Agreement, a Developer's Agreement, a Stormwater Runoff Control and Facilities Maintenance Agreement and a Sanitary Sewer Easement Agreement with the Easton Area School District.

The following Resolutions were introduced by Dr. Ruggles:

80-2018, 81-2018, 82-2018, 83-2018

The above Resolutions were adopted on motion of Dr. Ruggles and Mr. O'Connell, Dr. Ruggles and Mr. Brown, Dr. Ruggles and Mr. O'Connell and Dr. Ruggles and Mrs. Vulcan by the following vote:

Yea: Brown, Edinger, Melan, O'Connell, Ruggles, Vulcan, Panto (7)
Nays: None (0)

Yea: Edinger, Melan, O'Connell, Ruggles, Vulcan, Panto, Brown (7)
Nays: None (0)

Minutes of the Council of the City of Easton, Pa.
May 23, 2018

Yea: Melan, O'Connell, Ruggles, Vulcano, Panto, Brown, Edinger (7)
Nays: None (0)

Yea: O'Connell, Ruggles, Vulcano, Panto, Brown, Edinger, Melan (7)
Nays: None (0)

Yea: Ruggles, Vulcano, Panto, Brown, Edinger, Melan, O'Connell (7)
Nays: None (0)

The next item on the Agenda was a proposed Resolution which would extend a proposal acceptance period of ninety (90) days beyond the 60 day period specified in the Instructions to Bidders with F.A Rohrbach, LLC.

The following Resolution was introduced by Dr. Ruggles:

84-2018

The above Resolution was adopted on motion of Dr. Ruggles and Mr. O'Connell by the following vote:

Yea: Ruggles, Vulcano, Panto, Brown, Edinger, Melan, O'Connell (7)
Nays: None (0)

PUBLIC COMMENT
(On any item other)

Laini Abraham, 207 Church Street said that she felt that the location of this Council meeting was not adequately advertised enough.

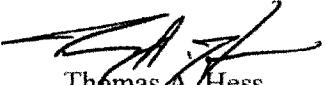
The City Clerk, Mayor Panto, and Mr. Melan addressed her concerns.

Rachael Hogan-Carr, 323 High Street, thanked Council for their concerns and support of the Global Covenant of mayors for Climate & Energy.

ADJOURNMENT

With no further business, the meeting was adjourned at 7:22 p.m., on motion of Dr. Ruggles and Mr. O'Connell by the following vote:

Yea: Melan, O'Connell, Ruggles, Vulcano, Panto, Brown, Edinger (7)
Nays: None (0)



Thomas A. Hess
City Clerk



CITY OF EASTON

PENNSYLVANIA

May 18, 2018

COUNCIL MEETING NOTICE

A meeting of City Council has been scheduled for Wednesday, May 23, 2018 beginning at 6:00 p.m., for the transaction of regular business.

The meeting will be held at the Easton Area Community Center,
located at S. 9th and Washington Streets, Easton, Pa.

All meetings of City Council are open to the Public and are accessible to persons with disabilities.

A blue ink signature of Thomas A. Hess.

Thomas A. Hess
City Clerk

CITY COUNCIL
AGENDA

Stated Session
Wednesday
May 23, 2018
6:00 P.M.

1. CALL TO ORDER
2. INVOCATION
3. PLEDGE OF ALLEGIANCE
4. ROLL CALL
5. APPROVAL OF AGENDA
6. ACTION ON MINUTES – May 9, 2018 Council meeting.
7. RESOLUTION – Congratulating Police Officer of the Year
8. PRESENTATION – Covenant of Mayor’s Green House Gas Emission Target Setting
9. PUBLIC COMMENT – Agenda Items Only.
10. CONSENT AGENDA
 - a. Bill 18, Amending sections contained in Chapter 135, Records, Public, of the Code of the City of Easton, Pa.
 - b. Bill 19, Amending Section 285-29 D (2), of Chapter 285, Fees, of the Code of the City of Easton, Pa.
 - c. Resolution approving a COA for 123 S. Third Street.
 - d. Resolution approving a COA for 52 S. Fourth Street.
 - e. Resolution approving a COA for 120 S. Sixth Street.
 - f. Resolution approving a COA for 516 Church Street.
 - g. Resolution approving a COA for 345 Ferry Street.
 - h. Resolution approving a COA for 414 Northampton Street.
 - i. Resolution approving a COA for 601 Northampton Street.
 - j. Resolution approving a COA for 130 Spring Garden Street.
11. REPORTS RECEIVED BY COUNCIL
12. REPORTS OF COMMITTEES
 - (a) Finance (Kenneth Brown)
 - (b) Economic Development (Sandra Vulcano)
 - (c) Planning and Code (David O’Connell)
 - (d) Public Safety (Peter Melan)
 - (e) Public Works (Roger Ruggles)
 - (f) Administration (James Edinger)
 - (g) Report of City Solicitor (Attorney William Murphy)

-Over-

(h) Report of Mayor (Salvatore J. Panto Jr.)

13. CORRESPONDENCE

(a) Letter- Robert Freeman regarding Resolution 51-2018, Lowering Penalty for Possession of a small amount of marijuana.

14. UNFINISHED BUSINESS

15. NEW BUSINESS

(a) Introduction of Legislative Bills

1. Bill 20, Amending Ordinance 3976.
2. Bill 21, Amending Article III, Traffic Control map, of Chapter 560, Vehicles and Traffic, of the Code of the City of Easton, pa.
3. Bill 22, Amending Section 285-42 A (2) (b), of Section 285-42, Pine Street Garage and South Third Street Garage fees, of the Code of the City of Easton, Pa.
4. Bill 23, Amending Ordinance 4295.

(b) Resolution authorizing adoption of a Residential Antidisplacement Assistance Policy.

(c) Resolution approving a Lease Agreement with Pitney Bowes.

(d) Resolution adopting Greenhouse Gas Emissions Reduction Goals.

(e) Resolution approving a Cash Escrow Agreement.

(f) Resolution approving a Developers Agreement.

(g) Resolution approving a Storm Water Runoff Control Facilities and Maintenance Agreement.

(h) Resolution approving an Easement Agreement.

(i) Resolution approving and Extension of Proposal Acceptance Period Agreement.

16. PUBLIC COMMENT – (Any Matter)

17. ADJOURNMENT-

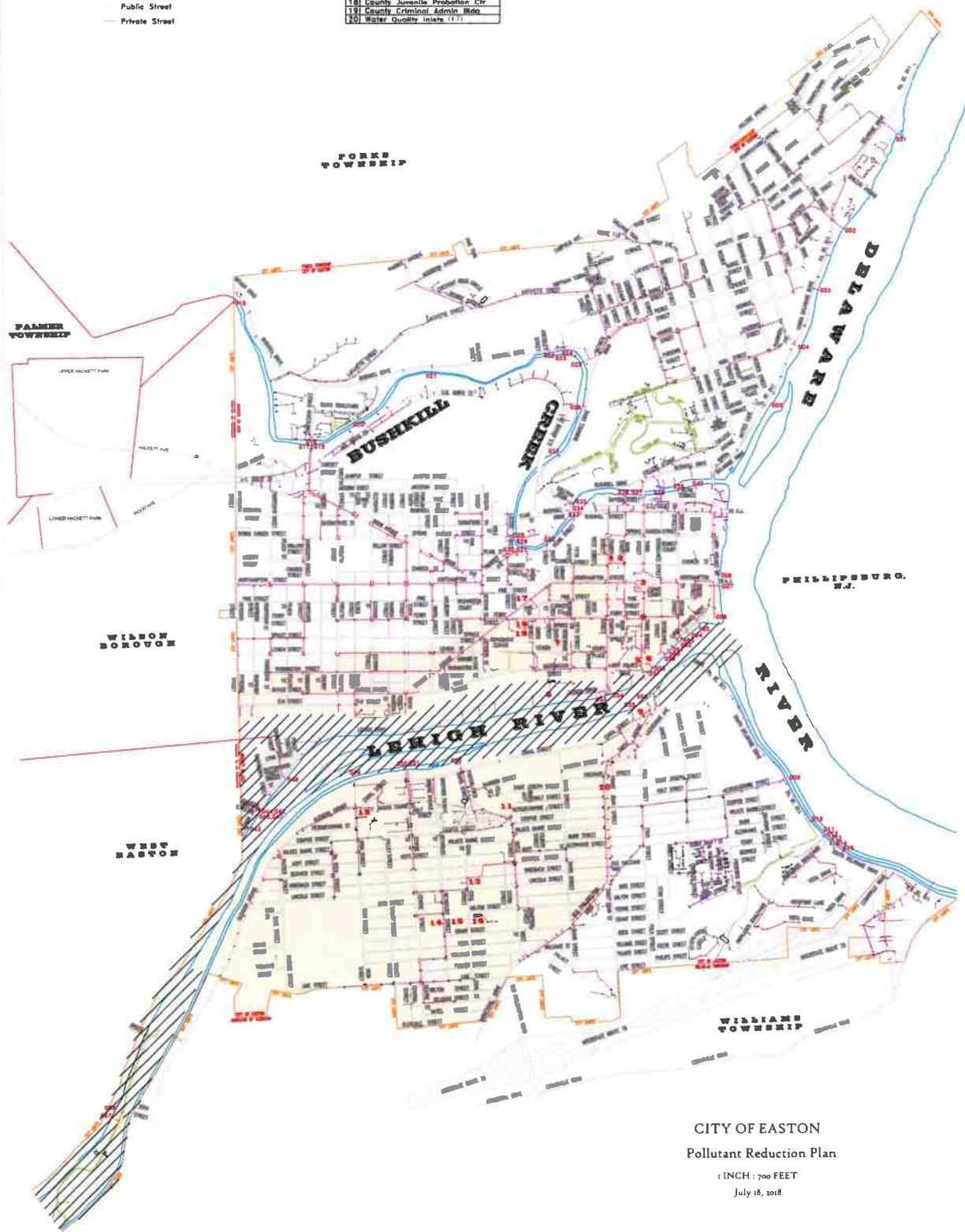
Appendix B

Pollutant Reduction Planning Area

LEGEND

- Streams
- Eastern Boundary
- PRP Planning Area
- Parcel Area
- Sediment Reduction BMP
- Outfall Number
- Inlet
- Storm Sewer Pipe
- Public Street
- Private Street

⑩ Sediment Reduction BMP
⑪ 4th & Church Street
⑫ Parking Garage Green Roofs
⑬ Centre Square
⑭ 3rd Street R.O.W.
⑮ Devil's Den
⑯ Elm Street Triangle
⑰ County Parking Lot
⑱ Lehigh Drive Parking
⑲ Train Station
⑳ Twp. Park
⑪ St. Joseph Street Park
⑫ Meuch Chuck Park
⑬ Block Diamond
⑭ Cheston Union Park
⑮ Cheston Elm School Field
⑯ Cheston Elm School Parking
⑰ Dutchmen/Wendul Street Park
⑱ County Juvenile Probation Ctr
⑲ County Criminal Admin Bldg
⑳ Water Quality Inlets (11)



CITY OF EASTON
Pollutant Reduction Plan

1 INCH : 700 FEET
July 18, 2018

Appendix C

Proposed BMP Documentation

ID	Location	BMP Type	BMP Sediment Removal Effectiveness	Project Area Size (acres)	Area used for BMP	BMP Size (acres)	Drainage Area to BMP (acres)	from Drainage Area (lb./yr)	Est. Sediment Load (lb./yr)	Est. Sediment Load Reduction (tons/yr)
1	4th Street ROW	Bioretention/Raingarden/Filtering Practices	0.8	1.1	25%	0.3	2.2	2,210	1,768	0.9
2	4th and Church Parking Garage	Green Roof	0.8	0.4	50%	0.4	0.4	352	515	0.3
3	Centre Square	Bioretention/Raingarden/Filtering Practices	0.8	1.9	25%	0.5	3.8	3,818	3,054	1.5
4	3rd Street ROW	Bioretention/Raingarden/Filtering Practices	0.8	0.1	75%	0.1	0.6	603	482	0.2
5	DaVinci Center	Bioretention/Raingarden/Filtering Practices	0.8	0.9	50%	0.5	3.6	3,617	2,894	1.4
6	S. 3 rd Street Triangle	Bioretention/Raingarden/Filtering Practices	0.8	0.1	75%	0.1	0.6	603	482	0.2
7	County Parking Lot	Bioretention/Raingarden/Filtering Practices	0.8	0.9	50%	0.5	3.6	3,617	2,894	1.4
8	Leigh Drive Waterfront	Bioretention/Raingarden/Filtering Practices	0.8	0.5	75%	0.4	3.0	3,014	2,411	1.2
9	Train Station	Bioretention/Raingarden/Filtering Practices	0.8	0.2	75%	0.2	1.2	1,206	965	0.5
10	St. John's Street	Bioretention/Raingarden/Filtering Practices	0.8	0.2	75%	0.2	1.2	1,206	965	0.5
11	St. Joseph Street Park	Bioretention/Raingarden/Filtering Practices	0.8	2.1	50%	1.1	8.4	8,440	6,752	3.4
12	Mauch Chunk Park	Bioretention/Raingarden/Filtering Practices	0.8	0.7	50%	0.4	2.8	2,813	2,251	1.1
13	Easton Yards	Bioretention/Raingarden/Filtering Practices	0.8	2.7	50%	1.4	10.8	10,851	8,681	4.3
14	Cheston Pioneer Park	Bioretention/Raingarden/Filtering Practices	0.8	0.7	50%	0.4	2.8	2,813	2,251	1.1
15	Cheston Elementary School Field	Bioretention/Raingarden/Filtering Practices	0.8	2.8	50%	1.4	11.2	11,253	9,003	4.5
16	Cheston Elementary School Parking	Bioretention/Raingarden/Filtering Practices	0.8	2.3	75%	1.7	13.8	13,866	11,093	5.5
17	Dutchtown/Walnut Street Park	Bioretention/Raingarden/Filtering Practices	0.8	0.2	50%	0.1	0.4	402	322	0.2
18	County Juvenile Probation Ctr	Bioretention/Raingarden/Filtering Practices	0.8	1.2	50%	0.3	2.4	4,823	3,858	1.9
19	County Criminal Admin Bldg	Bioretention/Raingarden/Filtering Practices	0.8	0.5	25%	0.1	1.0	1,005	804	0.4
20	Water Quality Inlets (17)	Filtering Practices	0.8	NA	NA	NA	8.5	8,540	6,832	3.4
21	Canal Wastegate Channel	Storm Restoration	44.88 lb./LF	440 LF	NA	NA	NA	NA	19,747	9.9
22	Canal Middle Lock	Bioretention/Raingarden/Filtering Practices	0.6	0.2	90%	0.2	4.3	4,320	2,160	1.1
23	Hilton Street Basin	Dry Extended Detention Basin	0.5*	1.6	90%	1.5	30 (72)**	72,343	15,071	7.5
Total								104,982	52.4	

Notes:

- Consistent with the PA Stormwater BMP Manual, acreage of the drainage area discharging to each proposed BMPs is assumed to be eight times the size of the proposed BMP footprint. The potential drainage area discharging to each proposed BMP location was reviewed during a field investigation and through analysis of the digital elevation model and the storm sewer map. The exceptions to this 8:1 drainage area to BMP footprint ratio are the following two BMPs:
 - BMP 2: Sediment reduction of the Parking Garage Green Roof is calculated based on a green roof of 0.4 acres.
 - BMP 20: PADEP's table of BMP Effectiveness limits the drainage area treated by this BMP to 0.5 acres per water quality inlet.
- * The basin currently acts as a Dry Detention Basin and is able to reduce sediment discharge by 10%. This percentage is deducted from the anticipated 60% sediment discharge reduction to be achieved when the basin is modified into a Dry Extended Detention Basin.
- ** Although the total drainage area to the basin is 72 acres, the loading ratio of 20:1 constrains the basin's ability to achieve the maximum sediment removal effectiveness. Therefore, 30 acres was used as the drainage area when calculating the estimated sediment load reduction.

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
1	4th Street ROW	Bioretention/Raingarden/Filtering Practices	1,768 (0.9)
2	4th and Church Parking Garage	Green Roof	515 (0.3)

The City anticipates construction of a parking garage at this location by 2023. Current land use is surface parking. To add to the minimum post-construction stormwater management controls required by the City's land development ordinance, the structure will include a green roof over one half of the parking structure, bioretention/ rain garden features (0.2 acres), and filtration practices within the 4th Street corridor.



ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
3	Centre Square	Bioretention/Raingarden/Filtering Practices	3,054 (1.5)
Redevelopment of public space and the traffic right-of-way in Centre Square by 2020 will improve aesthetics, open space, pedestrian safety, traffic flow, and stormwater management. Installation of bioretention/ rain garden features and filtering practices are proposed.			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
4	3rd Street ROW	Bioretention/Raingarden/Filtering Practices	482 (0.2)
Installation of bioretention/rain garden features (i.e. curb bump out, tree trenches) within the 3 rd Street right-of-way will be consistent with those planned for Centre Square and carry streetscape themes to the south. Benefits include urban greening, stormwater controls, aesthetics, and pedestrian safety.			
			

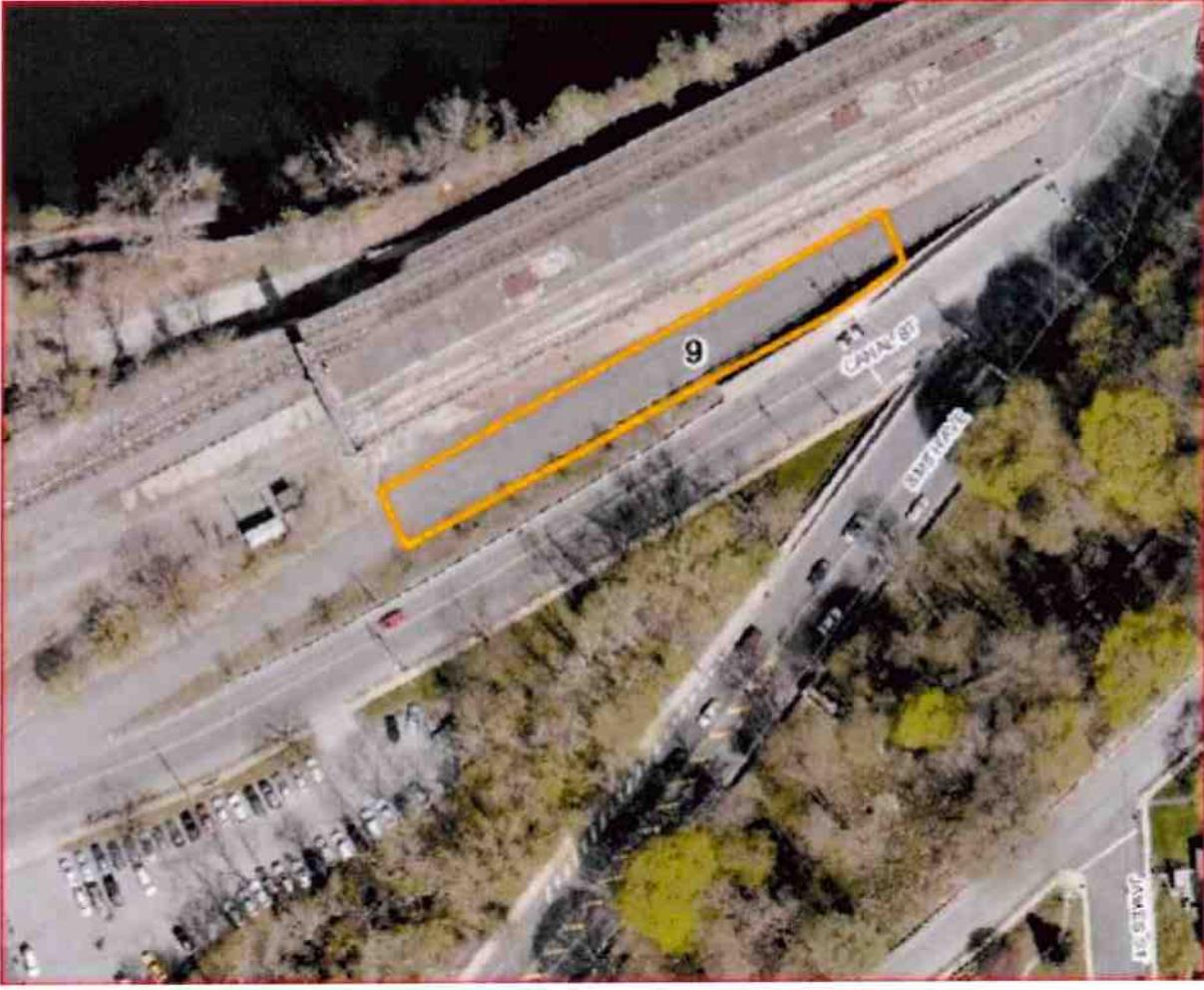
ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
5	DaVinci Science City	Bioretention/Raingarden/Filtering Practices	2,894 (1.4)
In addition to the required stormwater management practices required by the City land development regulations, the City will partner with site developers to manage stormwater flowing off-site using rain gardens and surface bioretention features. Approximately 40% of the acreage that currently exists in the floodplain could be utilized for this kind of stormwater management.			
6	S. 3 rd Street Triangle	Bioretention/Raingarden/Filtering Practices	482 (0.2)
Construction of a series of bioretention/ rain garden features to intercept runoff from Larry Holmes Drive and 3 rd Street before release to the MS4 and the Lehigh River. Such a feature could serve as a gateway to the north side of the City and be consistent with streetscape design leading north on 3 rd Street to Centre Square.			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
7	County Parking Lot	Bioretention/Raingarden, Filtering Practices	2,894 (1.4)
Rain gardens, vegetated swales and infiltration trenches are proposed to be added to the County-owned parcels to treat water generated within the parking lots and from the Lehigh Street, Union Street, and Washington Street corridors.			
			

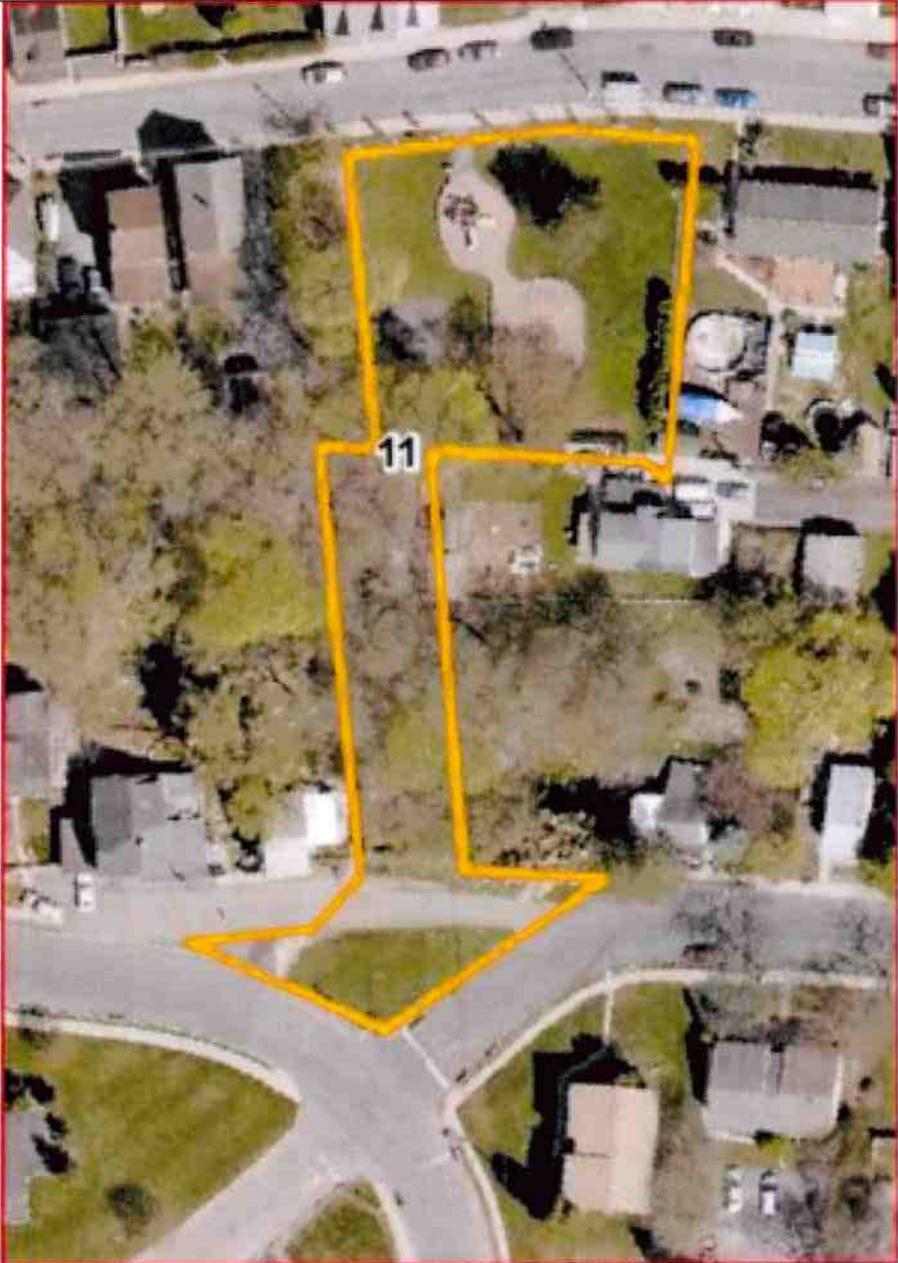
ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
8	Lehigh Drive Waterfront	Bioretention/Raingarden, Filtering Practices	2,411 (1.2)

Improvements to the existing parking lot and riverside access will include rain gardens and infiltration practices. Although this BMP is proposed to be constructed outside of the PRP planning area, runoff to this feature will be directed from the Wolf Ave and Washington St corridors within the PRP planning area. The project will be a part of new pedestrian connections between the boat houses to the west and the intersection of Washington St. and 4th St to the east



ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
9	Train Station	Bioretention/Raingarden, Filtering Practices	965 (0.5)
<p>Converting a portion of the access drive to the train station into a rain garden and associated infiltration features will be part of a project to improve stormwater runoff and pedestrian access from the St. John St. corridor across the Lehigh River and over to the D&L Trail.</p> 			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
10	St. John Street	Bioretention/Raingarden, Filtering Practices	965 (0.5)
<p>Modifications to traffic patterns and on-street parking arrangements will enable the installation of bioretention/rain garden features such as curb bump outs and tree trenches. Improved sidewalks, street trees, and crossings also associated with the project will improve pedestrian safety and connectivity.</p> 			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
11	St. Joseph Street Park	Bioretention/Raingarden, Filtering Practices	6,752 (3.4)
<p>A series of bioretention/ rain garden features installed at St. Joseph Street Park, connected by a step-pool conveyance system to a raingarden and infiltration features within the triangle at the intersection of Seitz St. and Cooper St. will daylight flow that currently flows through storm sewers from St. Joseph St. north to Pastor Fred David St.</p> 			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
12	Mauch Chunk Park	Bioretention/Raingarden, Filtering Practices	2,251 (1.1)
Construction of bioretention/ rain garden features at this park will be incorporated into the active recreation and passive recreation uses at this neighborhood park and adjacent open space.			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
13	Easton Yards Development	Bioretention/Raingarden, Filtering Practices	8,681 (4.3)

Upon redevelopment, and in addition to required minimum stormwater management performed at this site, the City will support construction of bioretention/ rain garden features that also contribute to urban greening and neighborhood pedestrian connectivity.



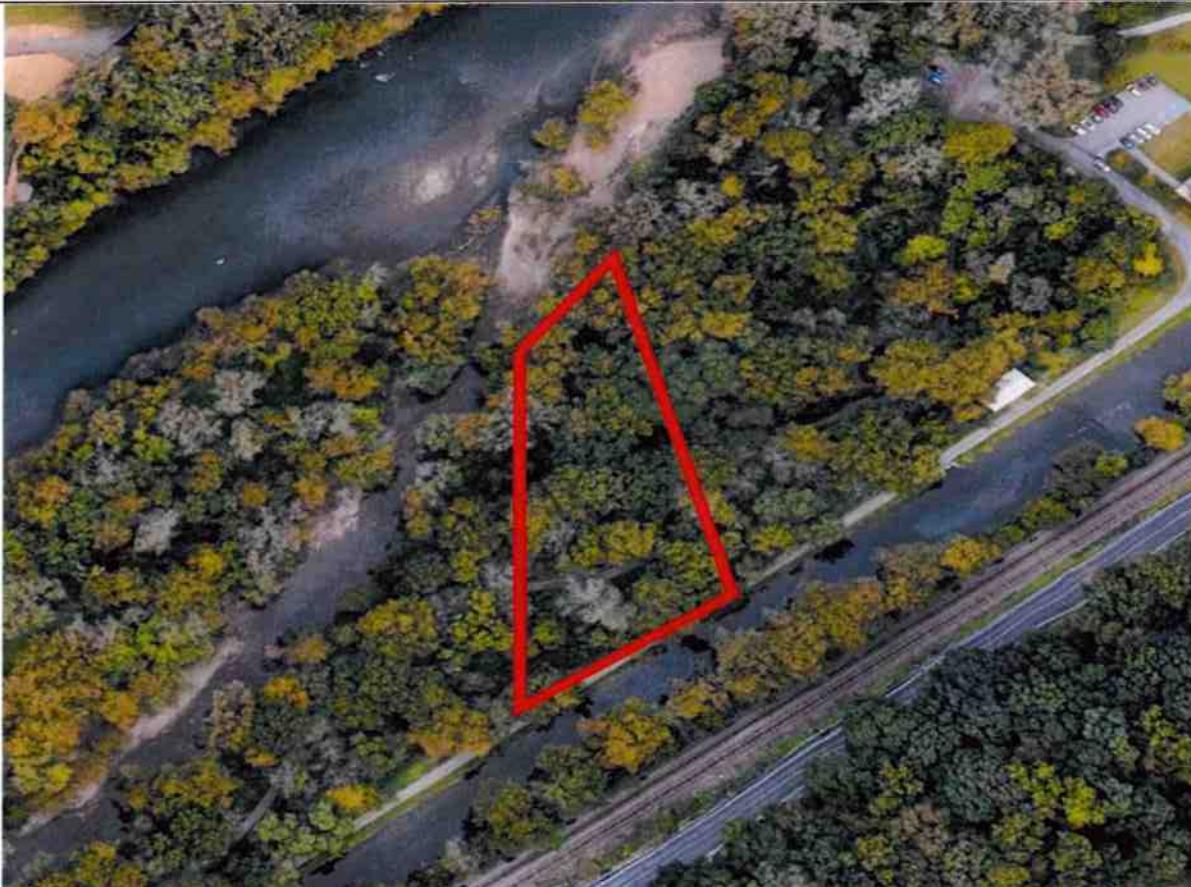
ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
14	Cheston Pioneer Park	Bioretention/Raingarden, Filtering Practices	2,251 (1.1)
By 2021, the City anticipates redevelopment of this school campus and adjacent City park. Construction of bioretention/ rain garden features at Pioneer Park will be incorporated into the active recreation uses at this neighborhood facility. Impervious area will be removed from the northwest corner.			
15	Cheston Elementary School Field	Bioretention/Raingarden, Filtering Practices	9,003 (4.5)
16	Cheston Elementary School Parking	Bioretention/Raingarden, Filtering Practices	11,093 (5.5)
<p>A new school will be constructed atop the recreation fields on Lincoln Street between Reynolds and Coal Streets. The existing school will be demolished and replaced with new recreation fields served by a series of underground dry extended detention and bioretention/ rain garden features.</p> <p>During construction of the new school, the adjacent parking lot to the east across Coal Street will be improved. A vegetated open channel will be installed along Grant Street; dry extended detention will be installed as well as bioretention/rain garden features.</p>			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
17	Dutchtown/Walnut St Park	Bioretention/Raingarden, Filtering Practices	723 (0.4)
<p>Proposed updates to this park would include a bioretention/ rain garden feature installed along Walnut Street. Runoff would enter this feature from the Walnut Avenue right of way to reduce discharge into the storm sewer. Discharge that does not infiltrate could be directed back into the Walnut Avenue right of way, or to the north to discharge into the storm sewer at Pine and Northampton Street.</p>			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
18	County Juvenile Probation Ctr	Bioretention/Raingarden, Filtering Practices	6,752 (3.4)
19	County Criminal Admin Bldg	Bioretention/Raingarden, Filtering Practices	3,818 (1.9)

Runoff from these County facilities flows towards the north. bioretention/ rain garden features could be installed to capture this runoff before discharging to the Walnut Avenue storm sewer



ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
20	Water Quality Inlets	Filtering Practices	6,832 (3.4)
Stormwater inlet filter bags can be used across the City to reduce the discharge of sediment to local water bodies. To achieve the necessary sediment reduction to the Lehigh River, 17 sediment filter bags are proposed to be installed into City-owned stormwater inlets. Each bag can treat runoff from up 0.5 acres of drainage area. Calculations for their capacity to remove sediment are consistent with PADEP's BMP Effectiveness Values table (May 2016).			
21	Canal Wastegate Channel	Streambank Restoration	19,747 (4.9)
Stabilize the banks of the channel that serves the canal wastegate above the Hugh Moore Park maintenance building. Restore the floodplain to reduce the potential for erosion of flows within the channel that could discharge sediment to the Lehigh River.			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
22	Canal Middle Lock	Bioretention/Raingarden/Filtering Practices	2,160 (1.1)
Disconnect existing storm sewer before it enters the canal above the existing Middle Lock. Reroute discharge as it flows under the railroad right of way and into Hugh Moore Park so that it flows into a vegetated swale where sediment can settle out. Reconfigure the discharge point back into the canal for runoff that does not infiltrate within the new feature.			
			

ID	Project	BMP Type(s)	Est. Sediment Load Reduction lb/yr (tons/yr)
23	Hilton Street Basin	Dry Extended Detention Basin	15,071 (7.5)
<p>The current stormwater basin along Hilton Street is owned by PennDOT. A joint project between Williams Township, PennDOT, and the City will expand the size of the basin and reconfigure the outlet structures to increase the basin's ability to treat runoff. The basin will be converted from a one-acre Dry Detention Basin to a two-acre Dry Extended Detention Basin. Although the total drainage area to the basin is 72 acres, the loading ratio of 20:1 constrains the basin's ability to achieve the maximum sediment removal effectiveness. Therefore, 30 acres was used in the calculation.</p> 			