YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN (2019, 2022)

(2018-2023)

SUBMITTED TO PA DEP SEPTEMBER 15, 2017 (REVISED AND RESUBMITTED OCTOBER 10, 2017)



PREPARED BY THE YORK COUNTY PLANNING COMMISSION AND HERBERT, ROWLAND & GRUBIC, INC IN COOPERATION WITH THE REGIONAL CBPRP MUNICIPAL STEERING COMMITTEE

FUNDED THROUGH THE USACE SECTION 22 PROGRAM, YORK COUNTY, AND THE YORK COUNTY COMMUNITY FOUNDATION

York County Regional Chesapeake Bay Pollutant Reduction Plan (CBPRP) Participants

Carroll Township*
Chanceford Township***
Conewago Township***
Dallastown Borough*
Dillsburg Borough*
Dover Borough***
Dover Township*
Fairview Township*
Felton Borough***

Franklintown Borough***
Glen Rock Borough
Goldsboro Borough***
Hallam Borough***
Hanover Borough*
Hellam Township***

Jackson Township*
Jacobus Borough***
Lewisberry Borough***
Loganville Borough***
Lower Windsor Township***

Manchester Borough*
Manchester Township*

Monaghan Township*

Mount Wolf Borough*
New Salem Borough***
Newberry Township*
North York Borough*
Penn Township*
Railroad Borough
Red Lion Borough*

Spring Garden Township* Spring Grove Borough** Springettsbury Township* Springfield Township*

West Manchester Township*
West Manheim Township*
West York Borough*
Windsor Borough*
Windsor Township*
Wrightsville Borough***

Yoe Borough* York City* York County*** York Township*

York Haven Borough***

 $[*]MS4\ Permittee-Regional\ CBPRP\ meeting\ Permit\ requirement$

^{**}MS4 Permittee – Submitting Individual Municipal CBPRP

^{***}MS4Permittee – Received Advanced Waiver approval letter from DEP

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Introduction

This Chesapeake Bay Pollutant Reduction Plan (CBPRP) represents a regional effort by York County municipalities to meet a component of the Pennsylvania Department of Environmental Protection (PADEP) Municipal Separate Storm Sewer (MS4) permitting requirements. More specifically, the permitting requirements covered by this plan include Pollutant Reduction Plans (PRPs) for stormwater discharges to local surface waters impaired for nutrients and/or sediment, and Chesapeake Bay Pollutant Reduction Plans (CBPRPs) for stormwater discharges to surface waters located within the Chesapeake Bay watershed. As a regional plan, this CBPRP addresses both the local impairment PRP and CBPRP pollutant loading reduction requirements.

This document was prepared following the guidance provided in the Pennsylvania Department of Environmental Protection (DEP) document 3800-PM-BCW0100k: National Pollutant Discharges Elimination Systems (NPDES) Stormwater Discharges from Small Municipal Septate Storm Sewer Systems Pollutant Reduction Plan (PRP) Instructions (rev. 3/2017).

There are 45 participants, including 44 municipalities and the County of York. Forty-three (43) of the participants are designated MS4s. However, 16 of the 43 MS4 participants received Advanced Waiver Approval from PADEP, which exempts them from submitting any required PRPs with their NOI. The remaining two (2) municipalities are non-MS4s. Per the Intergovernmental Cooperation Agreement for implementation of the Regional CBPRP, the participants are collectively the York County Stormwater Consortium (YCSWC). A complete list of participating municipalities and the MS4 status is provided in Appendix I.

Section A: Public Participation

A complete copy of this Regional CBPRP was made available for public review at the York County Planning Commission (YCPC) office and posted on the YCPC website from July 19, 2017, through August 18, 2017. The availability of the document was publicized in the *Harrisburg Patriot-News*, on July 18, 2017. The published public notice contained a brief description of the plan, the dates and locations at which the plan was available for review by the public, the length of time provided for the receipt of written comments, and the date/time/location of the public meeting. A copy of the public notice and proof of publication is included in Appendix II.

A public meeting was held on August 9, 2017, at the West Manchester Township Municipal Building (380 East Berlin Road, York, Pennsylvania) to present an overview of the Regional CBPRP to the public. Comments and questions received during the meeting, as well as the responses provided, are included in Appendix II.

Additionally, public comments were accepted for 30 days following the publication date of the public notice. A copy of all public comments received, together with the record of consideration, is included in Appendix II.

Changes made to the plan as a result of public comment are noted in Appendix II.

Section B: Map

The Planning Area Map shows the impaired streams, planning area, and watershed boundaries located within York County. The regional CBPRP Planning Area consists of the 2010 Census Urbanized Area for York County and the area that topographically drains into it as delineated using two (2) foot contours. It covers approximately 136,000 acres and encompasses portions of the County's four (4) primary watersheds (Codorus Creek, Conewago Creek, Kreutz-Muddy Creek, and Yellow Breeches Creek). No areas were parsed from the planning area. For the Regional CBPRP, the planning area and storm sewershed are synonymous. This approach was developed in consultation with PADEP.

Appendix III contains the Planning Area Map, Land Use by Watershed Maps, and the proposed BMP Location Map. Land Use maps are provided by watershed in order to demonstrate the varying landscape of the planning area. By and large, the urbanized area is overlaid on the most intensive land uses and is coincident with impaired streams. Proposed BMPs are shown at the planning area and watershed level.

Section C: Pollutants of Concern

Portions of the four (4) primary watersheds in the Planning Area (Yellow Breeches Creek, Conewago Creek, Codorus Creek, and Kreutz-Muddy Creek) are impaired. The pollutants of concern for each watershed were determined by referencing the PADEP's Pollutant Aggregation Suggestions for MS4 Requirements Table (Municipal) (rev. 5/9/2017) provided in Appendix IV. As there are multiple impaired stream segments located within the planning area, this plan addresses impairments and pollutants of concern on a watershed basis rather than by individual stream (Table 1).

Table 1. Pollutants of Concern by Planning Watershed

Planning Area Watershed	Pollutants of Concern
Yellow Breeches Creek	Chesapeake Bay (Nutrients/Sediment); Fishing Creek (Siltation); Unnamed Tributaries to Fishing Creek (Nutrients); Fishers Run (Siltation); Big Spring Run (Siltation); Stoney Run (Siltation); Unnamed Tributaries to the Yellow Breeches (Siltation); Marsh Run (Siltation)
Conewago Creek	Chesapeake Bay (Nutrients/Sediment); Plum Creek (Siltation); Honey Run (Siltation); Bennett Run (Siltation); Little Conewago Creek (Siltation); North Branch Bermudian Creek (Nutrients, Siltation); South Branch Conewago Creek (Siltation); Unnamed Tributaries to Bermudian Creek (Nutrients, Siltation);
Codorus Creek	Chesapeake Bay (Nutrients/Sediment); Codorus Creek (Siltation); South Branch Codorus Creek (Nutrients); Mill Creek (Siltation); Barshinger Creek (Siltation); Inner Creek (Siltation); Unnamed Tributaries to Codorus Creek (Nutrients); Oil Creek (Nutrients, Siltation); Gitts Run (Siltation)
Kreutz-Muddy Creek	Chesapeake Bay (Nutrients/Sediment); North Branch Muddy Creek (Siltation); Pine Run (Siltation); Fishing Creek (Siltation); Unnamed Tributaries to Kreutz-Muddy Creek (Siltation)

According to the guidance provided in the PRP instructions, the assumption can be made that meeting the sediment reduction goal will also result in achievement of the nutrient reduction goals. Therefore, from this point forward, this plan references sediment as the pollutant of concern.

Section D: Determine Existing Loading for Pollutants of Concern

D.1 Existing Pollutant Load Calculation

In consultation with PADEP, it was determined that, for purposes of calculating existing pollutant loading for the Regional CBPRP, the impervious and pervious developed land acreages listed in the PRP Instruction¹ for York County would be applicable. Using the Simplified Method², the impervious and pervious developed land acres were multiplied by the Developed Land Loading Rates for York County³ to determine the existing baseline pollutant loading for sediment (TSS) (Table 2).

Table 2. Existing Baseline Pollutant Loading

York County Dev	eloped Land	Developed Land Pollutant Loading Rate	Existing Baseline Pollutant Load ³
Category	Acres	TSS (lbs/ac/yr)	TSS (lbs/yr)
Pervious	40,374.8	220.4	8,898,606
Impervious	10,330.7	1,614.15	16,675,299
Total	50,705.5		25,573,905

In addition to determining the pollutant load for the Regional CBPRP Planning Area, the approximate pollutant loads for each of the four (4) primary watersheds were determined. This determination was made by estimating the developed land acreage within the applicable portion of each watershed and calculating the percent of the total County Developed Land contained within each watershed. These percentages were correlated to the total existing baseline pollutant load to determine the approximate pollutant load associated with each watershed (Table 3).

Table 3. Approximate Pollutant Loading by Planning Watershed

Watershed	Percent of Total County	Approximate Pollutant Load	
	Developed Land	TSS (lbs/yr)	
Yellow Breeches Creek	16%	3,916,191	
Conewago Creek	20%	5,172,747	
Codorus Creek	46%	11,870,647	
Kreutz-Muddy Creek	18%	4,614,320	
Total		25,573,905	

¹ PADEP Document 3800-PM-BCW0100k, PRP Instructions Attachment B "Developed Land Loading Rates for PA Counties" (Rev. 3/2017)

² PADEP Document 3800-PM-BCW0100k, PRP Instructions Attachment C, "Chesapeake Bay PRP Example Using DEP Simplified Method" (Rev. 3/2017)

D.2 Baseline Adjustment for Previously Implemented BMPs

Multiple water quality BMP installation projects were constructed prior to completion of this CBPRP and continue to function as designed. These BMPs are being claimed as credit to reduce the existing baseline loading for sediment (Table 4). They are largely attributed to land development projects that were required to complete NPDES-related BMPs to comply with Chapter 102 requirements and independent municipal capital improvement projects.

Table 4. Adjusted Baseline Pollutant Loading

D12	Pollutant Load		
Baseline	TSS (lbs/yr)		
Baseline Pollutant Loading	25,573,905		
Installed BMP Reduction	1,134,067		
Adjusted Baseline	24,439,838		

A summary of the BMPs installed within each participating municipality and corresponding pollutant load reduction is provided (Appendix V). The BMP summary table was generated by tabulating the existing BMP data submitted by each of the participating municipalities (also included in Appendix V). The existing BMPs were organized by type to determine the total impervious and pervious land areas treated by each type of BMP within each participating municipality. These BMP types and corresponding treatment areas were input into the Chesapeake Bay Facility Assessment Tool (BayFAST)⁴ to develop an existing BMP scenario. The pollutant load output from each municipal existing BMP scenario was compared with the baseline pollutant load to determine the pollutant load reduction associated with each municipality's existing BMPs.

More detailed information regarding the design, construction, operation and maintenance requirements, and confirmation that operation and maintenance is occurring for each BMP is on file at the municipal building in the jurisdiction where the BMP is located, as required by MS4 permit conditions. Additionally, the installed BMP list in Appendix V includes BMP information from two (2) non-municipal permittees, PennDOT and the Defense Distribution Center, Susquehanna. As these non-municipal permittees contain facilities within York County on which BMPs have been installed, the pollutant load reductions associated with these BMPs were also determined using BayFAST and are being counted as a reduction from York County's baseline pollutant loading.

⁴ USEPA Chesapeake Bay Program, Chesapeake Bay Facility Assessment Scenario Tool (BayFAST)

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

E.1 Pollutant Reduction Requirements

York County includes municipalities regulated by PAG-13 General Permit, Appendix E (nutrients and/or sediment in stormwater discharges to impaired waterways), as well as municipalities regulated by Appendix D (nutrients and sediment in stormwater discharges to waters in the Chesapeake Bay watershed). Appendix E impairments based on siltation or total suspended solids (TSS) require a minimum 10% TSS reduction and impairments based on nutrients require a minimum 5% total phosphorus (TP) reduction. The pollutants of concern for Appendix D are TSS, TP, and total nitrogen (TN), with required loading reductions of 10%, 5%, and 3%, respectively. However, it is presumed that within the overall Bay watershed, the TP and TN goals will be achieved when a 10% reduction in sediment is achieved⁵. Likewise, for this Regional CBPRP, it is presumed that by targeting the placement of BMPs in impaired portions of the planning area watersheds and meeting the overall CBPRP 10% TSS reduction, the nutrient reductions of the impaired watersheds regulated by Appendix E are also met. Therefore, only the required 10% TSS reduction is calculated herein as a required load reduction for the Regional CBPRP (Table 5).

Table 5. Required York County Regional CBPRP Pollutant Reduction Goal

Dlanning Auga Load Daduction	Developed Land	Pollutant Load	
Planning Area Load Reduction	(acres)	TSS (lb/yr)	
York County Adjusted Baseline	50,706	24,439,838	
Required Reduction Percentage		10%	
Load Reduction Goal		2,443,984	

E.2 Proposed BMPs

This section outlines the BMP implementation strategy developed to achieve the required pollutant load reduction goal of 2,443,984 lbs/year of sediment. Identification of proposed BMPs were determined from review of project ideas submitted by participating municipalities, project site visits, and conversations with municipal secretaries/managers and MS4 staff, as well as steering committee meeting input, and outreach meetings.

The following factors were considered when evaluating which projects to include in the plan: anticipated cost effectiveness, location relative to an impaired waterway, treatment of a significant drainage area, ability to be grouped with similar projects for design and construction cost savings, and location within the planning area. The chosen projects represent the most cost-effective strategy to achieve the greatest pollutant load reduction. From this evaluation, six (6) BMP types are proposed to be implemented to meet the sediment pollutant goal (Table 6). These BMP types represent a diverse and cost-effective approach to meet the required reduction goals for the Chesapeake Bay, while also improving the quality of local impaired waterways.

⁵ This assumption is stated in the PADEP Document 3800-PM-BCW0100k, PRP Instructions (Rev. 3/2017)

2,753,718

Proposed BMP Type (# of projects)*	Total Drainage Area (acres)	Total Length (ft)	Area (acres)	Pollutant Load Reduction TSS (lbs/yr)
Stream Restoration (33)	n/a	53,785	n/a	2,447,081
Detention Basin/Swale Retrofits (24)	348	n/a	n/a	164,241
Tree Planting/Riparian Buffers (11)	n/a	n/a	21	8,480
Water Re-Use (1)	n/a	n/a	n/a	30,440
Reconstructed Wetlands (4)	n/a	n/a	7.5	88,222
Infiltration BMPs (4)	36	n/a	2.9	15,254

Table 6. Proposed BMP Summary by BMP Type

Total

The pollutant loading reductions for each proposed BMP were calculated in terms of pounds per year of sediment using the BayFAST modeling tool. The majority of the anticipated sediment reductions are attributed to projects that directly restore streambanks (Appendix VI).

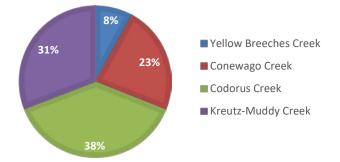
In order to encourage the equitable distribution of BMP projects throughout the Planning Area and meet the intent of the PAG-13 pollutant reduction planning requirements, projects are located throughout the four (4) primary watersheds in the Planning Areas. The BMP project distribution is shown below (Table 7 and Figure 1).

Table 7. Anticip	pated Pollutant Load	d Reduction by P	Planning Area	Watershed
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Planning Area Watershed	% of Planning Area Developed Land	BMP Pollutant Load Reduction (TSS lbs/yr)	% of Total Reduction
Conewago Creek	20%	609,774	23%
Yellow Breeches Creek	16%	210,269	8%
Kreutz-Muddy Creek	18%	815,622	31%
Codorus Creek	46%	1,006,527	38%
Total		2,642,192	100%

The watershed with the greatest anticipated pollutant load reduction, the Codorus Creek, also has the greatest portion of regulated developed land. Similarly, the lowest amount of reduction, and the watershed with the least amount of regulated developed land, occurs within the Yellow Breeches Creek.

Figure 1. Percent of Total Reduction by Planning Area Watershed



^{*} As reflected under Project Type on Tables 8 A-D and 9 A-D.

E.2.1 Local-Level BMPs

The groundwork for this Regional Chesapeake Bay Pollutant Reduction Plan (CBPRP) was laid in 2014 when the initial York County Regional CBPRP⁶ was completed. The 2014 plan was approved by PADEP by way of letter dated August 31, 2015. It has been implemented and reported on annually during the 2013 PAG-13 permit term. During development of the BMP planning strategy for this plan, participants of the 2014 plan were asked to determine the status of unconstructed BMP projects in that Plan. Additionally, ideas for new BMP projects were solicited from all participants. Projects were prioritized by municipal leaders for inclusion in this plan (Tables 8A – 8D).

Table 8A. Local-Level BMP Summary List by Watershed (Conewago Creek)

	Project Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Reduction TSS (lbs/yr)
4	West Manchester Tree Planting (Little Conewago Conserv. Area)	West Manchester Twp.	Tree Planting	n/a	n/a	4	495
5	West Manchester Bioswale	West Manchester Twp.	Swale Retrofit	n/a	7.8	0.73	2,341
6	Manhaven Manor Retrofit	Manchester Boro.	Basin Retrofit	n/a	5.56	0.4	1,669
13	Wyngate Detention Basin	Dover Twp.	Basin Retrofit	n/a	40	0.49	12,034
14	Dover Twp. Community Center	Dover Twp.	Basin Retrofit	n/a	20.1	0.78	6,047
17	Poplar Street Swale Retrofit	Hanover Boro.	Swale Retrofit	n/a	32.4	0.5	13,503
19	Homewood Streambank Restoration (Plum Run)	Penn Twp.	Stream Restoration	500	n/a	n/a	22,440
76	Danielle & Willipa Drives (Little Conewago Creek)	Dover Twp.	Stream Restoration	800	n/a	n/a	35,904
Total							94,433

⁶ York County Regional Chesapeake Bay Pollutant Reduction Plan (April 2014), prepared by YCPC in cooperation with the Center for Watershed Protection

Table 8B. Local-Level BMP Summary List by Watershed (Yellow Breeches)

	Project Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Reduction TSS (lbs/yr)
15	Emily Lane Stormwater Pond	Fairview Twp.	Basin Retrofit	n/a	7.02	0.4	2,104
34	138 South York Street (Fishing Creek)	Goldsboro Boro.	Riparian Buffer	n/a	n/a	4.83	1,717
57	138 South York Street (Fishing Creek)	Goldsboro Boro.	Stream Restoration	1,700	n/a	n/a	76,296
Total							80,117

Table 8C. Local-Level BMP Summary List by Watershed (Kreutz-Muddy Creek)

	Project Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Reduction TSS (lbs/yr)
9	Penn Oak Park (UNT Kreutz Creek)		Stream Restoration	1,160	n/a	n/a	52,061
10	Stonewood Park (UNT Kreutz Creek)	Springettsbury Twp.	Stream Restoration	1,000	n/a	n/a	44,880
11	Camp Security Park (UNT Kreutz Creek)		Stream Restoration	1,120	n/a	n/a	50,266
29	Riverfront Park GI Plan (Bioretention Basin 1)	Wrightsville Boro.	Bioretention	n/a	22.6	0.2	9,415
65	Fishing Creek Study Stream Restoration	Windsor Boro.	Riparian Buffer/ Stream Restoration	6,700	n/a	n/a	300,696
77	Beaver Street	Hallam Boro.	Swale Retrofit	79.5	n/a	n/a	35,680
7 7	Restoration Swale	Wetland Restoration	n/a	n/a	2.0	1,908	
78	Restoration of Kreutz Creek	Hallam Boro.	Stream Restoration	6,000	n/a	n/a	269,280
79	Riverfront Park GI Plan (Bioretention Basin 2, Bioswale 2)	Wrightsville Boro.	Bioretention/ Bioswale	n/a	11.9	0.1	4,875
80	Prison Property SW Facility Upgrade (UNT Kreutz Creek)	Springettsbury Twp. (York Co. Project)	Basin Retrofits	n/a	35	1.1	10,533
83	Stream/Drainage Improvement - Lions Club Property (Fishing Creek)	Windsor Boro.	Stream Restoration	285	n/a	n/a	12,791
84	Milner Heights Basin Retrofit	Windsor Twp.	Basin Retrofit	n/a	42	1.0	12,649
Total							805,034

Table 8D. Local-Level BMP Summary List by Watershed (Codorus Creek)

	Project Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Reduction TSS (lbs/yr)
2	Center Street Streambank Restoration (Oil Creek)	Penn Twp.	Stream Restoration	1,600	n/a	n/a	71,808
12	York City Industrial Park Basin	York City	Basin Retrofit	n/a	39	2.28	11,738
			Stream Restoration	2,100	n/a	n/a	94,248
			Wetland Restoration	n/a	200+	3	55,604
			Stream Restoration	1,000	n/a	n/a	44,880
16	Stillmeadow Park Restoration	Manchester	Wetland Restoration	n/a	80+	1.5	11,260
10	(UNT Codorus Creek)	Twp.	Basin Retrofit	n/a	40	0.6	12,064
			Basin Retrofit	n/a	20	0.7	6,017
			Tree Planting	n/a	n/a	0.25	85
			Basin Retrofit	n/a	5.5	0.4	1,647
			Basin Retrofit	n/a	7	0.5	2,102
			Stream Restoration	750	n/a	n/a	33,660
18	Springettsbury Municipal Campus	Springettsbury Twp.	Basin Retrofit	n/a	15	0.45	4,512
22	York Twp. Pond Retrofit	York Twp.	Basin Retrofit	n/a	5	0.3	1,498
25	Dauberton HOA Basin Retrofit	Manchester Boro.	Basin Retrofit	n/a	5.5	0.6	1,647
26	Dallastown Basin Retrofit	Dallastown Boro.	Basin Retrofit	n/a	5.5	1	1,647
46	Lincoln Park (UNT Willis Run)		Stream Restoration	515	n/a	n/a	23,113
47	Memorial Park (Poor House Run)	York City	Stream Restoration	2,150	n/a	n/a	96,492
48	Farquhar Park/Kiwanis Lake (UNT Willis Run)		Stream Restoration	3,900	n/a	n/a	175,032
68	Queenswood Improvements (UNT Mill Creek)	York Twp.	Stream Restoration	1,100	n/a	n/a	49,368
81	Horace Mann Ave. BMP # 1	Red Lion Boro.	Bioretention	n/a	1.9	0.13	779
82	Ensminger Dr. Swale Rehabilitation	Springfield Twp.	Swale Retrofit	200	n/a	n/a	20,110
Total							719,311

E.2.2 Regional BMPs

The regional BMP projects include projects with multiple BMP components, projects that span across several municipalities, and/or projects associated with significant partnerships (Tables 9A - 9D). These projects are capable of treating larger drainage areas and are more cost effective.

Table 9A. Regional BMP Summary List by Watershed (Conewago Creek)

P	roject Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Load Reduction TSS (lbs/yr)
7	Musser Run Stream	Manchester	Forest Buffer	n/a	n/a	0.8	284
8	Restoration	Boro.	Stream Restoration	1,200	n/a	n/a	53,856
			Stream Restoration (Dover Twp. Park, Little Conewago Creek)	1,000	n/a	n/a	44,880
		Dover Twp.	Forest Buffer (Dover Twp. Park)	n/a	n/a	0.8	284
	Dover Twp./West Manchester Twp.		Stream Restoration (Dover Twp. Property, Little Conewago Creek)	1,000	00 n/a n/	n/a	44,880
24	Stream Restoration (Little Conewago Creek, UNT Little Conewago	go	Stream Restoration (Little Conewago Creek Conserv. Area, Little Conewago Creek)	2,280	n/a	n/a	102,326
	Creek)	West Manchester Twp.	Stream Restoration (Little Conewago Creek Conserv. Area, UNT Little Conewago Creek)	1,230	n/a	n/a	55,202
			Stream Restoration (W Manchester Twp. Property, Little Conewago Creek)	1,800	n/a	n/a	80,784
50	Dover Township Park (Old Golf Dover	Dover	Stream/Restoration (Fox Run)	1,880	n/a	n/a	84,374
50	Course) Fox Run Restoration Twp.		Stream/Restoration (UNT Fox Run)	1,080	n/a	n/a	48,470
Total							515,340

Table 9B. Regional BMP Summary List by Watershed (Yellow Breeches)

P	roject Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Load Reduction TSS (lbs/yr)
21	Red Land High School Stream	Fairview	Stream Restoration (Redland High School)	1,700	n/a	n/a	76,296
21	Restoration (UNT Fishing Creek)	Twp.	Stream Restoration (PA American Water Easement)	1,200	n/a	n/a	53,856
Total							130,152

Table 9C. Regional BMP Summary List by Watershed (Kreutz-Muddy Creek Breeches)

Proj	Project Name Location		Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Load Reduction TSS (lbs/yr)
			Stream Restoration (Springettes Oak Park)	1,900	n/a	n/a	85,272
			Basin Retrofit (Concord Bus. Park)	n/a	13	0.21	3,911
	East York P3	Springettsbury	Basin Retrofit (Concord Office Ctr. East)	n/a	1.02	0.14	304
23	(Twp./ County/		Basin Retrofit (Concord Office Ctr. West)	n/a	1.13	0.18	340
23	Private) (UNT	Twp.	Basin Retrofit (York County Home)	n/a	0.5	0.05	144
	Kreutz Creek)		Bioretention (York County Home)	n/a	0.63	0.04	185
			Stream Restoration (York County Home)	700	n/a	n/a	31,416
			Forest Buffer (York County Home)	n/a	n/a	1.53	543
Total							122,115

Table 9D. Regional BMP Summary List by Watershed (Codorus Creek)

P	roject Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Load Reduction TSS (lbs/yr)
	York Twp. Private Property		Reconstructed Wetland	n/a	70	1	19,450
20	Owner Project	York Twp.	Forested Buffer	n/a	n/a	5.5	1,956
	(UNT Mill Creek)		Stream Restoration	1,200	n/a	n/a	53,856
30	York County Solid Waste and Refuse Center	Manchester Twp.	Water Re-use	n/a	n/a	n/a	30,440
35	BMP #1 (Little	Jackson	Riparian Forest Buffer	n/a	n/a	1.65	584
59	Creek)	Twp.	Stream/Floodplain Restoration	800	n/a	n/a	35,904
36	BMP #2 (UNT	Jackson	Riparian Forest Buffer	n/a	n/a	4.48	1,593
60	W Br Codorus)	Twp.	Stream Restoration	1,325	n/a	n/a	59,466
37	BMP #3 (Little	Jackson	Riparian Forest Buffer	n/a	n/a	2.65	939
61	Creek)	Twp.	Stream/Floodplain Restoration	1,850	n/a	n/a	83,028
Total	Total						287,216

E.2.3 Project Schedule and Project Descriptions

A Project Schedule and project description sheets for the proposed BMP projects are included in Appendix VII. Unless otherwise noted, the proposed BMP projects have not been fully designed. The project descriptions are conceptual and intended for planning purposes. Proposed projects have been evaluated in terms of preliminary feasibility and anticipated pollutant load reductions in order to meet the goals of this plan. The proposed BMPs will be designed in accordance with the Pennsylvania BMP Manual design guidance and all local ordinances. Additionally, as many of the proposed projects include stream restoration, all proposed stream restoration projects will be designed in accordance with the requirements listed in DEP's stream restoration guidance⁷. Additional details and calculations for each proposed project developed during the design and implementation project phases will be documented in the Annual MS4 Status Reports.

E.2.4 Shortlist BMP Projects

In addition to the regional and local projects listed above, several other potential BMP projects were evaluated during the development of this Regional CBPRP. However, during project evaluation, these projects were deemed to be a lower priority than the projects chosen for inclusion in the plan. These projects were shortlisted and removed from the plan. Although not officially part of the CBPRP, the shortlisted projects are included for reference in Appendix VIII. Should unforeseen circumstances arise which prevent any of the local or regional projects listed above from being implemented, it is anticipated that a project from the shortlist will be used to replace the eliminated project.

E.3 Partnerships

Non-municipal MS4s and industrial permittees were not parsed out of this plan. As a result, stormwater management BMP accomplishments of other NPDES permit holders can also count toward meeting the Regional CBPRP pollutant reduction goals, provided that they meet pollutant reduction plan criteria.

E.3.1 PennDOT Partnership

This planning strategy does not cite any PennDOT projects as planned projects contributing to the planning goal. However, it is understood that through the Regional CBPRP, participating municipalities are eligible to take credit in the Annual MS4 Status Reports for PennDOT projects. PennDOT partnership projects may be accomplished through one of two ways for the Regional CBPRP:

Municipal Coordination

PennDOT will prepare a guidebook to inform municipalities in Sediment-Impaired Watersheds in urbanized areas of opportunities to support their own pollution reduction goals through partnering on future highway projects. PennDOT will provide a draft of this guidebook to DEP for review and comment during the first year of coverage under the permit. PennDOT will distribute the guidebook to municipalities through planning partners, PennDOT's website, and Local Technical Assistance Program training. PennDOT and the municipality will share any reductions achieved through partnership projects, provided the municipality either contributes funding or agrees to perform the long-term operation and maintenance responsibilities for the additional or enhanced stormwater controls.

⁷ PADEP, "Consideration of Stream Restoration Projects in Pennsylvania for Eligibility as an MS4 Best Management Practice" (June 22, 2017)

As part of the Annual MS4 Status Reports submitted under this permit, PennDOT will provide a list of actions taken by the department to support municipalities in achieving their PRP goals in Sediment Impaired Watersheds in urbanized areas.

York County Pilot Project

PennDOT seeks to purchase Chesapeake Bay Sediment Reduction credits in certain subwatersheds of the Codorus Creek watershed of York County, PA, as part of a U.S Environmental Protection Agency (EPA) approved Supplemental Environmental Project (SEP). The purpose of the SEP is to undertake an environmentally beneficial project that would not otherwise be associated with the typical environmental mitigation obligations required for PennDOT construction projects. The York County Pilot Project will serve to evaluate an alternative procurement method to streamline efforts in reducing erosion rates and controlling sediment deposits in the Codorus Creek watershed, with special emphasis on Mill Creek and an unnamed tributary north of the US 30 interchange. PennDOT can leverage this partnership and collaboration through implementation of this SEP whereby both PennDOT and the Consortium will report the nutrient reduction credits in the Annual MS4 Status Report. Should the bid and project be successful, PennDOT would use this procurement mechanism on a larger scale in implementing future sediment reduction loading requirements.

E.3.2 Kinsley Properties Partnership

Kinsley Properties is a York County-employer and major landholder that owns and operates a number of stormwater BMPs, some of which are programmed for retrofits in this regional plan. Should the initial detention basin retrofits be successful, it is anticipated that an on-going partnership may occur, expanding the potential for additional stormwater retrofits and potential construction cost savings. Should additional BMPs be constructed in partnership with Kinsley Properties during the implementation phase of this plan, they will be reported through the Annual MS4 Status Report.

E.3.3 Defense Distribution Center, Susquehanna Installed BMPs during the Permit Term

The Defense Distribution Center, Susquehanna, operated by the United States Department of Defense (DoD), has NPDES permit coverage for MS4 regulations. To that end, similar pollutant reduction goals are to be achieved during the 2018 permit term. This planning strategy does not, specifically, cite any DoD projects as planned projects contributing to the planning goal. However, it is understood that through the Regional CBPRP, participating municipalities are eligible to take credit in the Annual MS4 Status Report for DoD projects constructed on the Defense Distribution Center, Susquehanna site. The estimated pollutant load reduction goal anticipated to be achieved by the DoD Facility is included in Appendix VI.

E.3.4 PA Turnpike Commission Installed BMPs during the Permit Term

Similar to PennDOT, the Pennsylvania Turnpike Commission operates roadways within York County. It is anticipated that any transportation agency projects that include stormwater management BMPs, meeting pollutant reduction plan criteria, will be creditable to the Regional CBPRP.

E.4 Other Reportable BMPs

Notwithstanding that the Regional CBPRP outlines enough planned projects to meet the County-wide pollutant reduction goal, pollutant reduction planning requirements are also intended to be met through municipal actions and approvals. Examples of BMP reporting opportunities are described below. Any permit-eligible BMP documentation for pollutant reductions will be accepted for inclusion in the Annual MS4 Status Reports.

E.4.1 Stormwater Inlet Cleaning

As part of on-going MS4 maintenance, several municipalities within York County routinely remove solids from their MS4s. However, at this time, no pollutant reduction has been allotted to storm sewer system solids removal because tracking of this removed material has not been to the degree required to accurately calculate the pollutant load reduction as described in the PADEP BMP effectiveness values table⁸. It is anticipated that municipalities that track inlet cleaning in accordance with DEP requirements will report those activities to the York County Planning Commission for inclusion in the Annual MS4 Status Reports. The reported reduction will contribute toward meeting the sediment reduction five (5)-year goal.

E.4.2 Land Development BMPs Installed On Sites with Less than One Acre of Disturbance

To the extent that local municipal ordinances require the installation of stormwater BMPs at construction sites where land disturbance will be less than one-acre, those BMPs can be reported to the York County Planning Commission for inclusion in the Annual MS4 Status Reports and the reported reductions will contribute toward the sediment reduction five-year goal.

E.4.3 Street Sweeping

Municipalities that regularly conduct street sweeping (at least 25 times per year) may use this practice for pollutant load reduction credit as long as street sweeping is conducted in accordance with the minimum standards outlined in the Chesapeake Bay Program expert panel report for street sweeping⁹ and the guidance provided on the BMP Effectiveness Values Table¹⁰ is used to calculate the corresponding pollutant load reduction. The reported reduction will contribute toward meeting the sediment reduction five (5)-year goal.

⁸ PADEP Document 3800-PM-BCW010m, NPDES Stormwater Discharges from Small MS4s BMP Effectiveness Values (Rev. 5/2016)

⁹ Chesapeake Bay Program Expert Panel, Recommendation of the Expert Panel to Define Removal Rates for Street and Storm Drain Cleaning Practices (5/26/2016)

¹⁰ PADEP Document 3800-PM-BCW010m, NPDES Stormwater Discharges from Small MS4s BMP Effectiveness Values (Rev. 5/2016)

Section F: Identify Funding Mechanisms

The Regional CBPRP identifies 45 projects to be completed during the permit cycle with an estimated cost of \$15.9 million. The total estimated project costs were discounted by 20% based on the following factors: currently funded projects being included in this plan, municipal in-kind services, regional project cost efficiencies, other funding sources or grants being awarded to projects, public-private partnership opportunities, installation of BMPs on projects less than one (1) acre in size. With a discount applied for the above listed factors, the total estimated project costs were reduced to \$13 million.

The Plan will be implemented by the participating municipalities through an Intergovernmental Cooperation Agreement (ICA) that is executed by the governing body of each participant. The ICA identifies the participants, the administering agency, the funding mechanism, the governance structure, and other details for implementation of the Plan. The agreed upon funding mechanism for implementing the BMP projects is a cost share formula that includes the population based on the 2010 U.S. Census, the linear miles of impaired streams, and the acres of impervious coverage. Participating municipalities with an MS4 permit share the cost to design, permit, and construct the projects, while the participating municipalities who receive a waiver and those that are non-permit holders share the administrative costs to implement the plan. The formula and the costs for each municipality to participate in the plan are included in the ICA (Appendix IX).

Further, it is anticipated that grants will be applied for in support of specific projects and that those cost savings will be shared by the participants. Potential grant sources include, but are not limited to:

- Pennsylvania Infrastructure Investment Authority (PENNVEST)
- Growing Greener Plus
- PADEP
- Pennsylvania Department of Conservation and Natural Resources (DCNR), applicable if stormwater BMPs are combined with a DCNR-priority project
- Commonwealth Finance Agency Act 13 Watershed Restoration and Protection Program
- Pennsylvania Infrastructure Bank, applicable if stormwater BMPs are combined with a PennDOTpriority project
- National Fish and Wildlife Foundation (NFWF)
- Exelon Habitat Improvement Program funds through the PA Fish and Boat Commission and the York County Conservation District
- United States Army Corp of Engineers (USACE)
- Federal Emergency Management Agency (FEMA)/Pennsylvania Emergency Management Agency (PEMA)
- PennDOT Transportation Alternatives Program

Section G: BMP Operations and Maintenance (O&M)

All stormwater BMP projects installed under this Regional CBPRP will be subject to the applicable municipal Stormwater Management (SWM) Ordinance that has been adopted in accordance with the York County Act 167 Plan and, if applicable, to grant agreement requirements. The SWM Ordinance required that SWM BMPs be inspected, at a minimum, annually for the first five (5) years, once every three (3) years thereafter, and during or immediately after the cessation of a ten (10)-year or greater storm.

The Operation and Maintenance (O&M) responsibilities for each stormwater BMP project must be included in a SWM BMP O&M Agreement or Plan, as applicable. The Agreement or Plan is subject to approval by the municipal governing body in which the project is located. Additionally, if the project is located on private land, the landowner must convey an easement to the municipality to assure access for periodic inspections by the municipality and maintenance, if necessary. As required by the PRP Instructions¹¹, O&M activities will be reported in the Annual MS4 Status Reports.

Generally, the activities involved with O&M for each BMP type proposed in the plan, are in accordance with the PADEP Stormwater BMP Manual (Table 10). As projects are designed during the implementation of the plan, it is expected that O&M notes will be provided for long-term completion and for documentation purposes. The frequency of O&M Activities will be in accordance with the compliant municipal Act 167 Stormwater Management Ordinance.

¹¹ PADEP Document 3800-PM-BCW0100k, PRP Instructions (Rev. 3/2017)

Table 10. General BMP O&M Plan

BMP	O&M Activities	Responsible Party	Frequency
Stream Restoration	Inspection Revegetation (replanting, replacement of dead, or impaired vegetation) Repairs to streambank armoring structures Removal of nuisance aquatic vegetation/ woody debris		
Riparian Buffer	Inspection Watering Mowing/Weed Control Invasive Species Removal		
Reconstructed Wetland	Inspection Revegetation (replanting, replacement of dead, or impaired vegetation) Repairs to streambank armoring structures Removal of nuisance aquatic vegetation/ woody debris	Landowner or other assigned party	In accordance with compliant municipal Act 167 Stormwater Management Ordinance
Detention Basin Retrofit	Inspection Pruning/Weeding Cut Down Perennial Planting/ Detritus Removal Re-spread Mulch Watering		
Bioretention Basin	Inspection Pruning/Weeding Cut Down Perennial Planting/Detritus Removal Re-spread or Replenish Mulch Watering		

APPENDIX I

Municipal Participants with MS4 Status

York County Regional CBPRP Participants

37.11	NIDDEG D. LAN	
Municip		NPDES Permit No.
Carroll	Township	PAG133548
Chanceford	Township	New*
Conewago	Township	PAG133593*
Dallastown	Borough	PAG133676
Dillsburg	Borough	PAG133560
Dover	Borough	PAG133583*
Dover	Township	PAG133656
Fairview	Township	PAG133557
Felton	Borough	New*
Franklintown	Borough	PAG133691*
Glen Rock	Borough	Non-regulated
Goldsboro	Borough	PAG133665*
Hallam	Borough	PAG133654*
Hanover	Borough	New
Hellam	Township	PAG133589*
Jackson	Township	PAG133671
Jacobus	Borough	PAG133647*
Lewisberry	Borough	PAG133624*
Loganville	Borough	PAG133669*
Lower Windsor	Township	PAG133626*
Manchester	Borough	PAG133586
Manchester	Township	PAG133674
Monaghan	Township	PAG133562
Mount Wolf	Borough	PAG133675
New Salem	Borough	PAG133687*
Newberry	Township	PAG133561
North York	Borough	PAG133581
Penn	Township	New
Railroad	Borough	Non-regulated
Red Lion	Borough	PAG133651
Spring Garden	Township	PAG133576
Spring Grove	Borough	New
Springettsbury	Township	PAG133594
Springfield	Township	PAG133652
West Manchester	Township	PAG133655
West Manheim	Township	New
West York	Borough	PAG133649
Windsor	Borough	PAG133673
Windsor	Township	PAG133685
Wrightsville	Borough	PAG133685*
Yoe	Borough	PAG133657
York	City	PAG133596
York	County	PAG133650*/**
York	Township	PAG133595
		PAG133393 PAG133672*
York Haven	Borough	PAG1330/2**

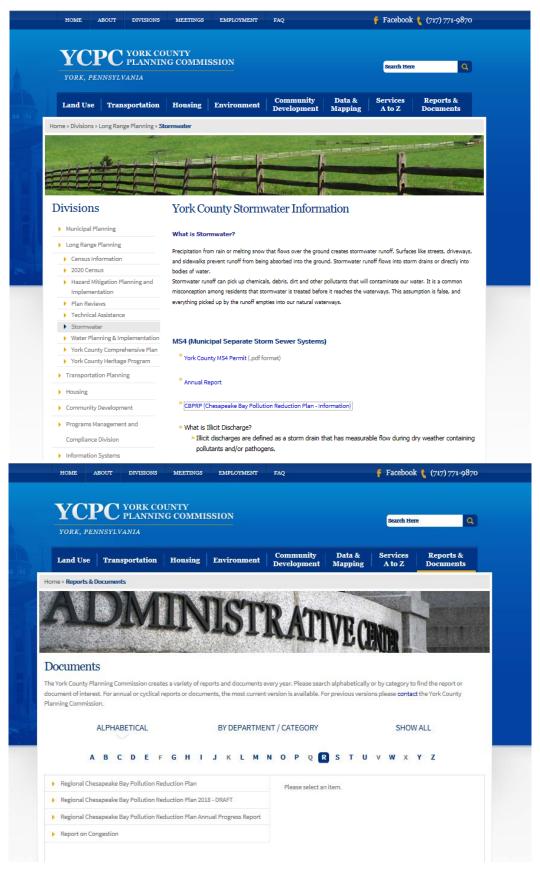
^{*} Received Advanced Waiver Approval Letter from PADEP

^{**} Not on Requirements Table for 2018 Permit

APPENDIX II

Public Participation Documentation

Notice of Public Participation & Public Meeting Notice Published on County Website



PUBLIC NOTICE YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

On behalf of municipalities participating in the York County Regional Chesapeake Bay Pollutant Reduction (CBPRP), the York County Planning Commission will accept **public comments** related to the Plan beginning on **July 19, 2017**, **and extending through August 18, 2017**. The Regional CBPRP was prepared to meet the requirements of the Municipal Separate Storm Sewer (MS4) permit with the PA Department of Environmental Protection (DEP). It includes an estimate of the baseload of pollutants that are discharged to streams in the planning area; the required pollutant reductions as identified by PA DEP; proposed stormwater improvement projects to achieve the minimum required pollutant reductions; the project sponsors, partners, and probable funding sources; and ongoing operation and maintenance responsibilities for the projects.

The Regional CBPRP will be available for public review Monday through Friday between the hours of 8:00 am and 4:30 pm at the York County Planning Commission (YCPC), located on the third floor of the County Administrative Center, 28 East Market Street, York, PA. The Plan will also be available for public review on the YCPC website www.ycpc.org. Comments must be provided in writing to the attention of Lindsay Gerner, YCPC Senior Planner, at the above address or submitted via email to LGerner@ycpc.org. Comments will also be accepted at a Public Meeting to be held at 6:00 pm on August 9, 2017, at the West Manchester Township Municipal Building, 380 East Berlin Road, York, PA.

The municipalities participating in the Regional CBPRP include the County of York; City of York; Townships of Carroll, Chanceford, Conewago, Dover, East Manchester, Fairview, Heidelberg, Hellam, Jackson, Lower Windsor, Manchester, Monaghan, Newberry, North Hopewell, Penn, Spring Garden, Springettsbury, Springfield, West Manchester, West Manheim, Windsor, and York; and the Boroughs of Dallastown, Dillsburg, Dover, Felton, Franklintown, Glen Rock, Goldsboro, Hallam, Hanover, Jacobus, Lewisberry, Loganville, Manchester, Mount Wolf, New Salem, North York, Railroad, Red Lion, Spring Grove, West York, Windsor, Wrightsville, Yoe, York Haven, and Yorkana.



The Patriot News

AD#: 0008269297

Commonwealth of Pennsylvania,) ss

County of Cumberland)

Dwayne Connor being duly sworn, deposes that he/she is principal clerk of PA Media Group; that The Patriot News is a public newspaper published in the city of Mechanicsburg, with general circulation in Cumberland and Dauphin and surrounding counties, and this notice is an accurate and true copy of this notice as printed in said newspaper, was printed and published in the regular edition and issue of said newspaper on the following date(s):

The Patriot News 07/18/2017

Principal Clerk of the Publisher

Sworn to and subscribed before me this 18th day of July 2017

Notary Public

PUBLIC NOTICE
YORK COUNTY REGIONAL
CHESAPEAKE BAY POLLUTANT
REDUCTION PLAN
On based of the state of the

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Lover, Fellon, Franklintown, Glen Rock, Goldsboro, Hallom, Hanover, Jacobus, Lewisberry, Loganville, Manchester, Mount Wolf, New Salem, North York, Railroad, Red Lion, Spring Grove, West York, Windsor, Wrightsville, Yoe, York Hoven, and COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

Crystal B. Rosensteel, Notary Public Susquehanna Twp., Dauphin County My Commission Expires June 27, 2020 MEMBER, FENNSYLVANIA ASSOCIATION OF NOTARES

AUGUST 9, 2017

Township Municipal West Manchester

REDUCTION PLAN YORK COUNT POLLUTAN CHESAPEAKE REGIONAL PUBLIC







MEETING









- Regional Approach
- Participants
- Overview of the Regional CBPRP
- Next Steps
- Public Comment

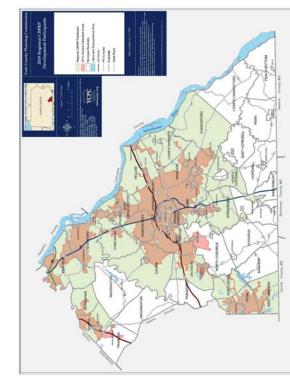












REGIONAL APPROACH

- All Municipalities Invited to Participate
 - No Parsing
- Projects Located on Impaired Waterways
- One Plan (save on cost of developing multiple plans)
- Bigger Planning Area + Larger Pot of Combined Money
 - = Better Projects and More Pollutant Reductions
 - Funding Available when Needed
- Predictable Expense for Municipalities to Budget



EXISTING POLLUTANT LOADING

COUNTY SEDIMENT BASELOAD

County Baseload

million lbs/yr

25,573,905

Sediment (TSS)

- Loose Particles of clay, silt, and sand
- Generated by natural weathering, accelerated erosion from development, and resuspension of previously eroded sediments stored in stream corridors
- Excess TSS affects stream flows, degrades water quality, and negatively affects local and downstream habitats

Sediment Measurement- "lbs/yr"

- Mass per unit area per unit time
- Model-based measure of water quality
- Not a literal pounds removed



Existing BMP reductions

million lbs/yr

1,134,067

Chesapeake Bay (2011) Sediment transported after Huricane Irene & T.S. Lee

County Sediment Reduction Goal

Modified Baseload

24, 439,838 million lbs/yr (10% over 5 yr permit)

million lbs/yr

2,443,984

YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

- Introduction
- Section A-Public Participation
- Section B-Map
- Section C-Pollutants of Concern
- Section D-Determine Existing Loading for Pollutants of Concern
- Section E-Select BMPs to Achieve the Minimum Required Reductions in Pollutant Loading
- Section F-Identify Funding Mechanisms
- Section G-BMP Operations and Maintenance (O&M)

YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN - APPENDICES

- Appendix I- MS4 Permittee List
- Appendix II- Public Participation Documentation
 - Appendix III- Planning Area Maps
- Appendix IV- Municipal MS4 Requirements
- Appendix V- Existing Pollutant Loading Calculations
- Appendix VI- Proposed BMP Pollutant Load Reduction Sample Calculations
- Appendix VII- Intergovernmental Cooperation Agreement



BMP TYPES

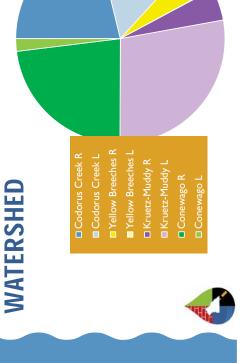
COMBINED PROJECTS BY

Local Level BMPs

- Contained in one municipality
- Managed by one municipality
- reducing 1,500,000 lbs/yr of - Approximately 32 projects

Regional Level BMPs

- municipalities and/or projects associated with significant Contained in several partnership
- reducing 1,140,000 lbs/yr of TSS - Approximately 17 projects



BMP examples: stream restoration, riparian buffer, basin retrofit, bioretention, bioswales, wetland restoration

P3 OPPORTUNITIES

 Individual MS4 Permittee Department of Defense

Required to implement BMP projects

• Will count toward Regional CBPRP reductions

PennDOT

Individual MS4 Permittee

• I-83 Widening Project

• Pilot Program with York County

Properties Kinsley

 Have SWV basins on their properties that could be upgraded for enhanced water quality Multiple benefits and pollutant reductions

GOALS ACHIEVED

- Chesapeake Bay PRP requirements
- Local Impairment PRP requirements
- Improved local water quality
- Rigid flexibility for implementation
- Annual project progress
- Continued local project inclusion in Plan









PUBLIC COMMENT















REGIONAL CBPRP PUBLIC MEETING COMMENTS RECEIVED & RESPONSES PROVIDED

1. Alan Vanderslott (West York Borough) – Regarding the map of participants, how is who's in and who's out determined? For example, why isn't Peach Bottom Township a participant?

Response: Although the Regional CBPRP is a requirement for MS4 Permit holders, all 72 municipalities were invited to participate. PA DEP designates municipalities located wholly or partially within a 2010 urbanized area (UA), as designated by the US Census Bureau, as MS4s. Peach Bottom Township does not include any urbanized area. The majority of participants are MS4s. Outside the UA, there are requirements related to agriculture, but those requirements are on farmers, not municipalities. Farmers are required to prepare and implement conservation plans to reduce pollutants and improve water quality.

2. Alan Vanderslott (West York Borough) – Are there any regulations on businesses?

Response: They must comply with local stormwater management ordinances, which include water quality requirements.

3. Gary Milbrand (York Township) – Add page numbers to the Table of Contents.

Response: Page numbers will be added when the Plan is finalized.

4. Gary Milbrand (York Township) – The location coordinates for Project #22 in York Township are incorrect.

Response: The correct latitude is 39.957922 and the longitude is -76.664798.

5. Gary Milbrand (York Township) – In Appendix IX, Attachment A of the Intergovernmental Cooperation Agreement lists municipal contributions. What happens if more money than needed to meet the 10% sediment is collected OR if an insufficient amount is collected?

Response: The Agreement contains provisions to address both situations. It allows for the contribution amounts to be decreased if the Consortium is on track to meet the pollutant reduction requirements ahead of schedule and to be increased if additional funding is necessary to avoid a Permit violation. Any decreases or increases would be based on the funding formula.

6. Alan Vanderslott (West York Borough) – York County appears to be unique in its regional approach. I am thankful for the County's effort.

Response: The regional approach has worked well over the past 3 years and has proven to be cost effective and efficient.

7. Monica Love (West Manchester Township) – It would be beneficial to have more private entities as partners. Could the County help frame the ask for municipalities to approach private entities, such as industrial permittees, to become a partner? They could be approached to update basins or retrofit/construct other low hanging fruit BMPs.

Response: The York County Planning Commission would be willing to assist municipalities. Increasing the number of partners could reduce the cost burden on municipalities. If PA DEP imposed stormwater requirements on industrial permittees, it would be an incentive for them to partner.

REGIONAL CBPRP WRITTEN PUBLIC COMMENTS

Commenter(s) identified that pollutant baseload calculations did not include the Plan's entire Planning Area acreage. It was pointed out that the PRP Instructions (Appendix B) accounted for 50,706 acres of developed York County. This developed land for York County was used to calculate the entire Planning Area's baseload, ignoring approximately 85,000 additional acres of undeveloped land in the Planning Area's baseload calculations. As a result, it was stated that an erroneously low baseload was calculated for the entire Planning Area.

Response: In 2013, York County MS4 municipalities developed the York County Regional Chesapeake Bay Pollutant Reduction Plan to meet the MS4 Permit requirement. It proved to be a more cost effective and efficient approach to implement BMPs to achieve water quality improvement. Thus, in order to meet increased requirements of the 2018 MS4 permit, York County immediately undertook the development of a Regional Chesapeake Bay Pollutant Reduction Plan upon PAG-13 finalization.

May 2016 - PA DEP released the 2018 MS4 Permit requirements. They were reviewed by York County to determine whether a multi-municipal approach was still feasible. After consultation with PA DEP, it was determined that a multi-municipal approach could be accomplished. The PRP instructions included Developed Land Loading Rates /Urbanized Pervious and Impervious Acreages in the Chesapeake Bay Watershed for PA Counties (Attachment B). However, due to the amount of coordination and communication required to facilitate a plan with 51 potential municipal participants, the process had to commence very quickly.

Summer/Fall, 2016 – PA DEP conducted training on the new MS4 permit requirements, including completing and submitting the NOI and preparation of PRP and TMDL plans.

August 2016 – York County municipalities were provided information about the new PRP requirements and how a multi-municipal approach could be accomplished. The feasibility, reduction requirements, rough costs of the multi-municipal approach were estimated based on the Developed Land Loading Rates and Acreages in the PRP instructions.

September through November 2016 – Municipalities were asked to decide whether they wanted to participate in the multi-municipal plan development based on the above estimates.

September through December, 2016 - Municipalities gathered information on completed BMP projects that could be used as credit toward reducing the regional baseload estimated by calculating loading rates and acreages from Attachment B of the PRP Instructions published with the final MS4 Permit. Municipalities generated a list of carryover projects, as well as new projects, including preliminary cost estimates, to be considered for the 2018 CBPRP.

January 2017 – PA DEP released Statewide MS4 Land Cover Estimates. After reviewing this information, the discrepancy between the Developed Land Loading Rates/Acreages and the new information was discovered.

February 2017 – York County met with PA DEP to discuss options on how to proceed given that the municipalities committed to a regional approach based on the numbers in the PRP instructions. Our understanding (since BMPs were efficiency based and DEP stated baseload calculations would not impact number of BMPs required to reduce pollutant load by 10%) was that we could proceed with a baseload for the Regional Plan development based on the Developed Land Loading Rates/Acreages in the PRP instructions. However, we would only propose projects on impaired stream reaches and stream restoration projects would be calculated at a delivered to the Bay rate of 45#/foot as opposed to the 115#/foot edge of stream rate provided in BayFAST.

Cost scenarios were refined with the municipalities.

March through May 2017 – Project lists were finalized, a funding proposal was finalized, the intergovernmental cooperation agreement was drafted and the draft plan was prepared.

June and July 2017 – The intergovernmental cooperation agreement was edited and finalized with the municipal solicitors and municipalities began the ordinance advertisement and adoption process.

To date:

- 48 municipalities are participating and contributing \$13 million over 5 years to leverage other funding and in-kind services to construct 32 local projects and 13 regional projects for a total of 45 BMPs in York County (which include approximately 10 miles of urban stream restoration);
- Partnerships with non-municipal MS4s and industrial permittees (PennDOT, DoD, and Kinsley Construction) have been developed to implement BMP projects that are not included in the calculated reductions.

We believe that due to the timing of the release of information, we have drafted a plan that will achieve the necessary sediment reductions and water quality improvements. Despite the other constraints imposed on our plan (conservative pollutant reduction value for stream restoration projects, limiting projects to impaired streams only, and not including other partner projects), we will meet **or** exceed the sediment reduction goals of the larger acreage planning area.

However, in order to reconcile the discrepancy in the planning area and baseload calculation acreage numbers, York County proposes that within the first 18 months after plan submission, the plan will be revised to reflect the final municipal participants. The Planning Area and the Base Pollutant Loading numbers will be reconciled using BayFAST modeling software utilizing acreages and loading rates delivered to the edge of stream and, at a minimum, a reduction of 115#/foot for stream restoration projects. In addition, stream restoration projects will be evaluated/designed using the expert panel protocol, which may yield a greater pollutant reduction rate than 115#/foot. Further, there are numerous completed stream restoration projects in York County that have documented sediment reduction values on average of 200#/foot or more using such protocol (see Estimating Volume, Nutrient Content, and Rates of Stream Bank Erosion of Legacy Sediment in the Piedmont Valley and Ridge Physiographic Provinces, Southeastern and

Central PA: A report to the Pennsylvania Department of Environmental Protection, submitted January, 2007 and revised September 13, 2007 by Robert Walter, Ph. D., Dorothy Merritts, Ph. D., and Mike Rahnis, M.Sc. and the Codorus Creek Watershed Assessment Reports erosion rate data attached).

Commenter(s) requested that an explanation be provided for the different sets of information for the "Proposed BMP Summary Sheets" in the electronic version of the plan available for review on the York County Planning Commission website.

Response: Several uncompleted projects from the 2013 CBPRP were carried over and included in the 2018 CBPRP. The black text is information from the project summary sheets generated for the 2013 Plan. The red text reflects updated project information utilizing the BayFAST reporting tool and BayFAST modeling runs. All project summary sheets have been updated to the same format based on the BayFAST project-reporting tool and BayFAST modeling runs.

Commenter(s) noted that a BMP Implementation Schedule was missing from the plan.

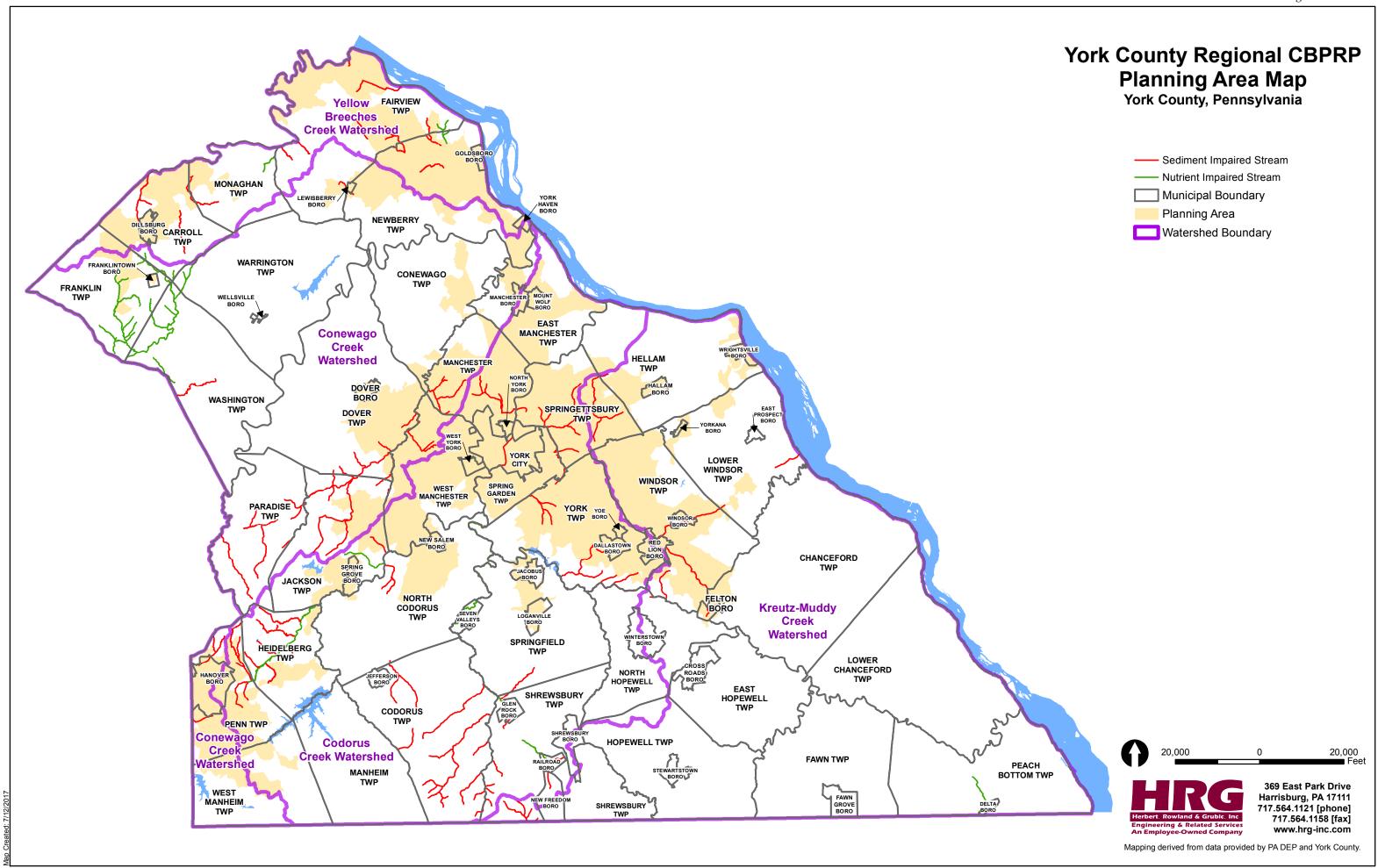
Response: An Implementation Schedule has been developed and included in Appendix VII of the final submission of the Plan.

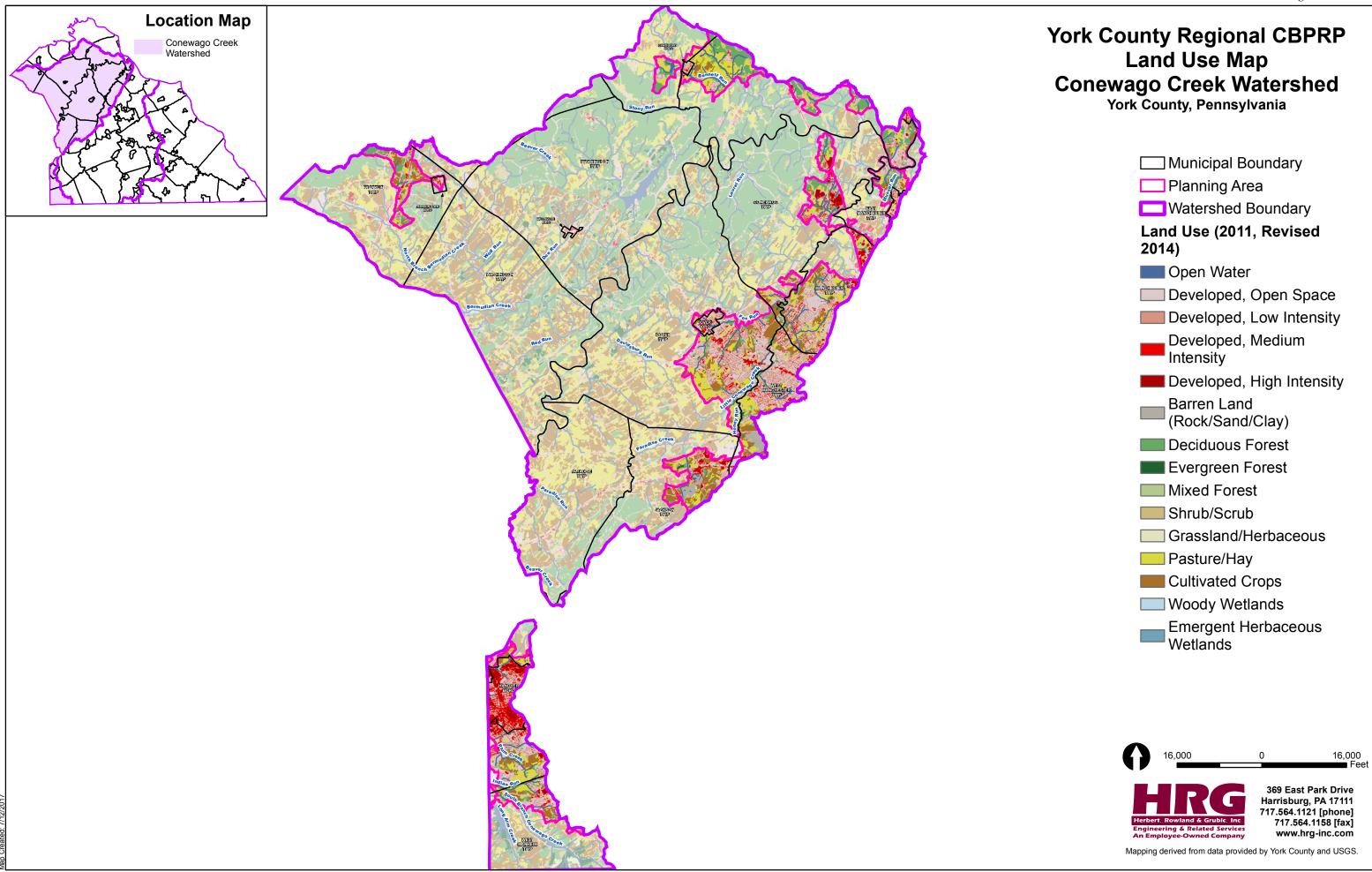
Commenter(s) noted that plan is very detailed, need to clean up the bay for future generation to enjoy, know that the bay is cleaner but needs to improve, one recommendation is to have farmers keep cows out of the streams that run through farms, also ask the public to work with leaders of these projects to reduce labor cost, thanks.

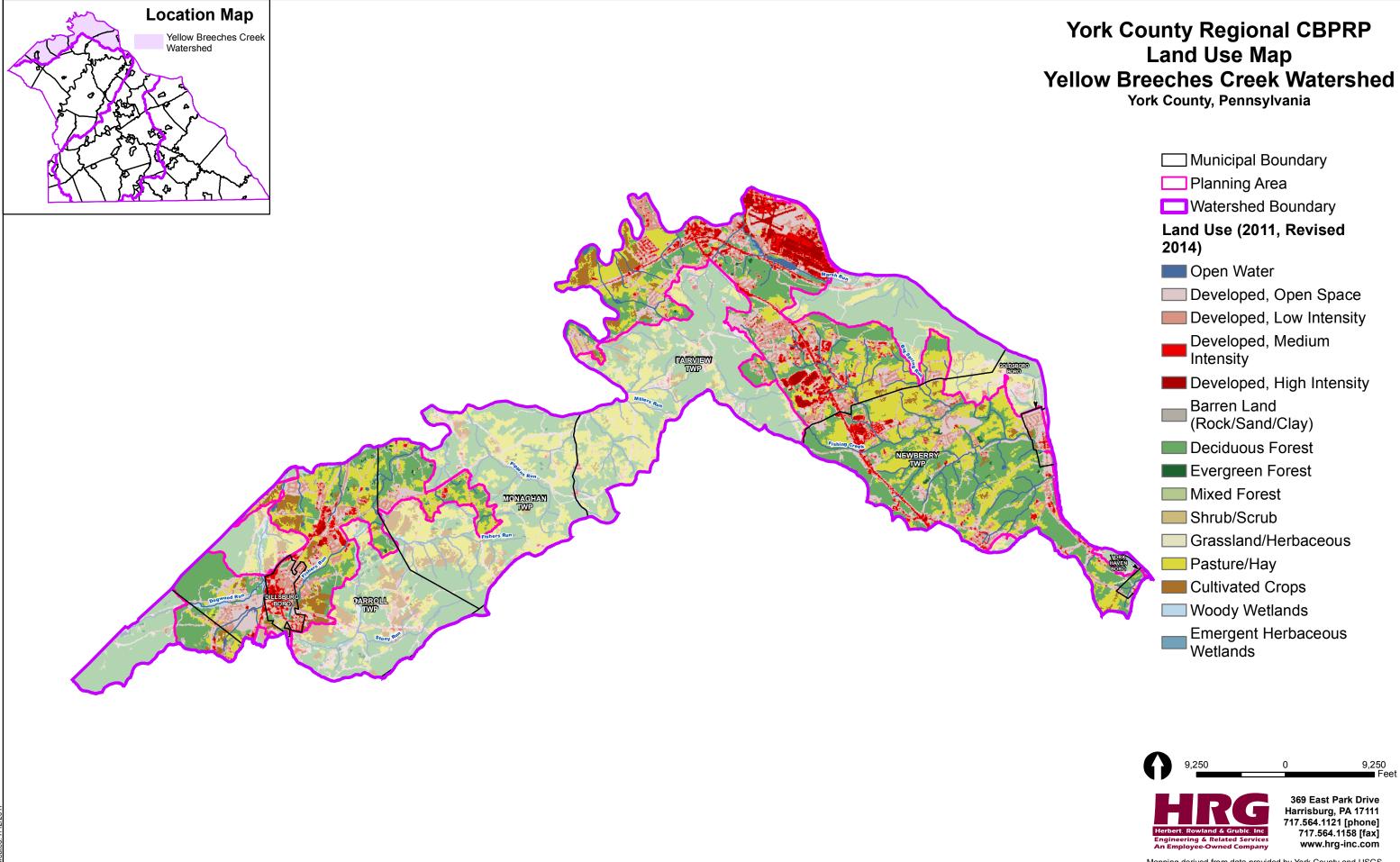
Response: Comment not applicable to current Regional CBPRP effort due to Sector Strategy for stormwater management and cleaning up the Bay.

APPENDIX III

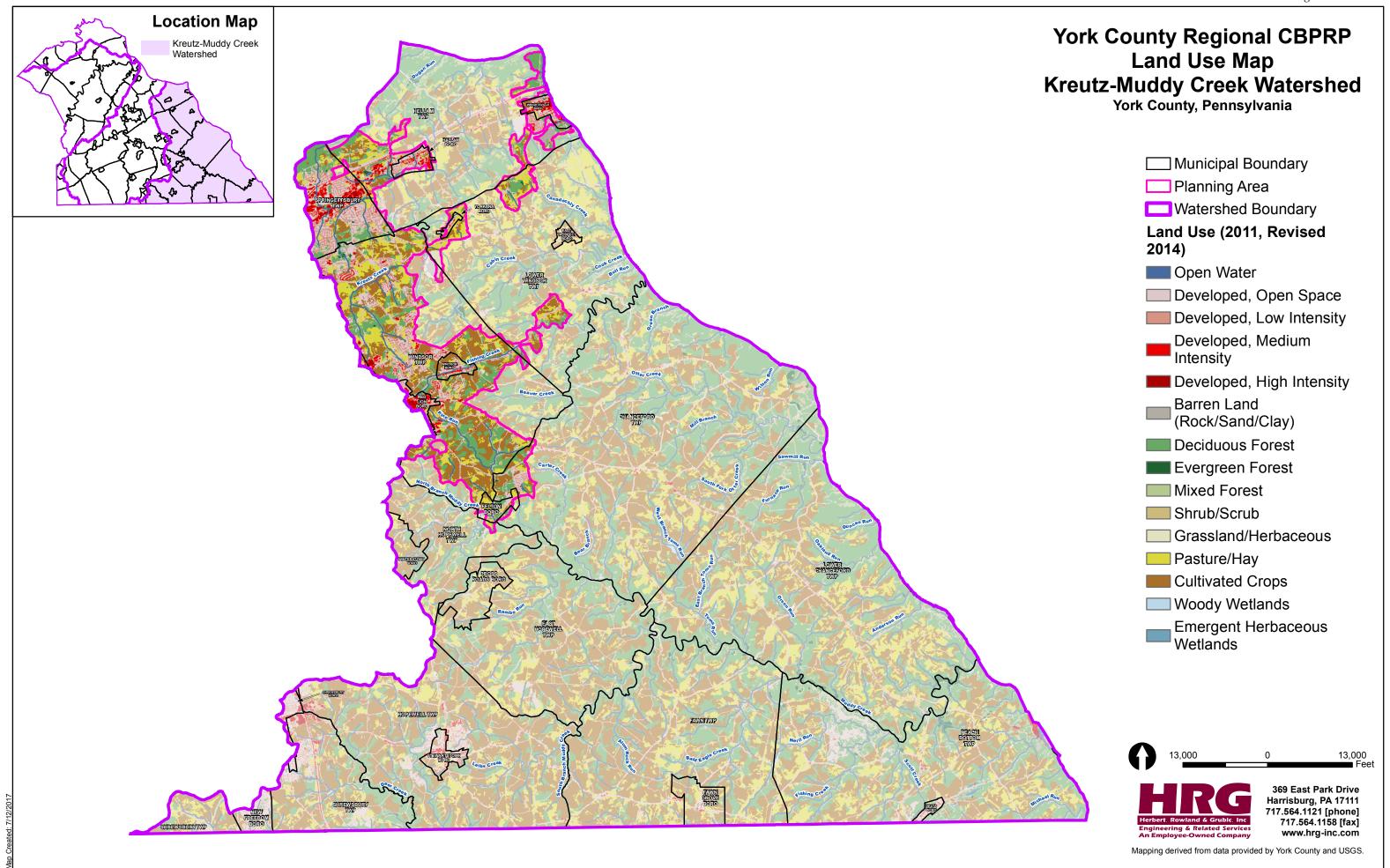
Planning Area Maps

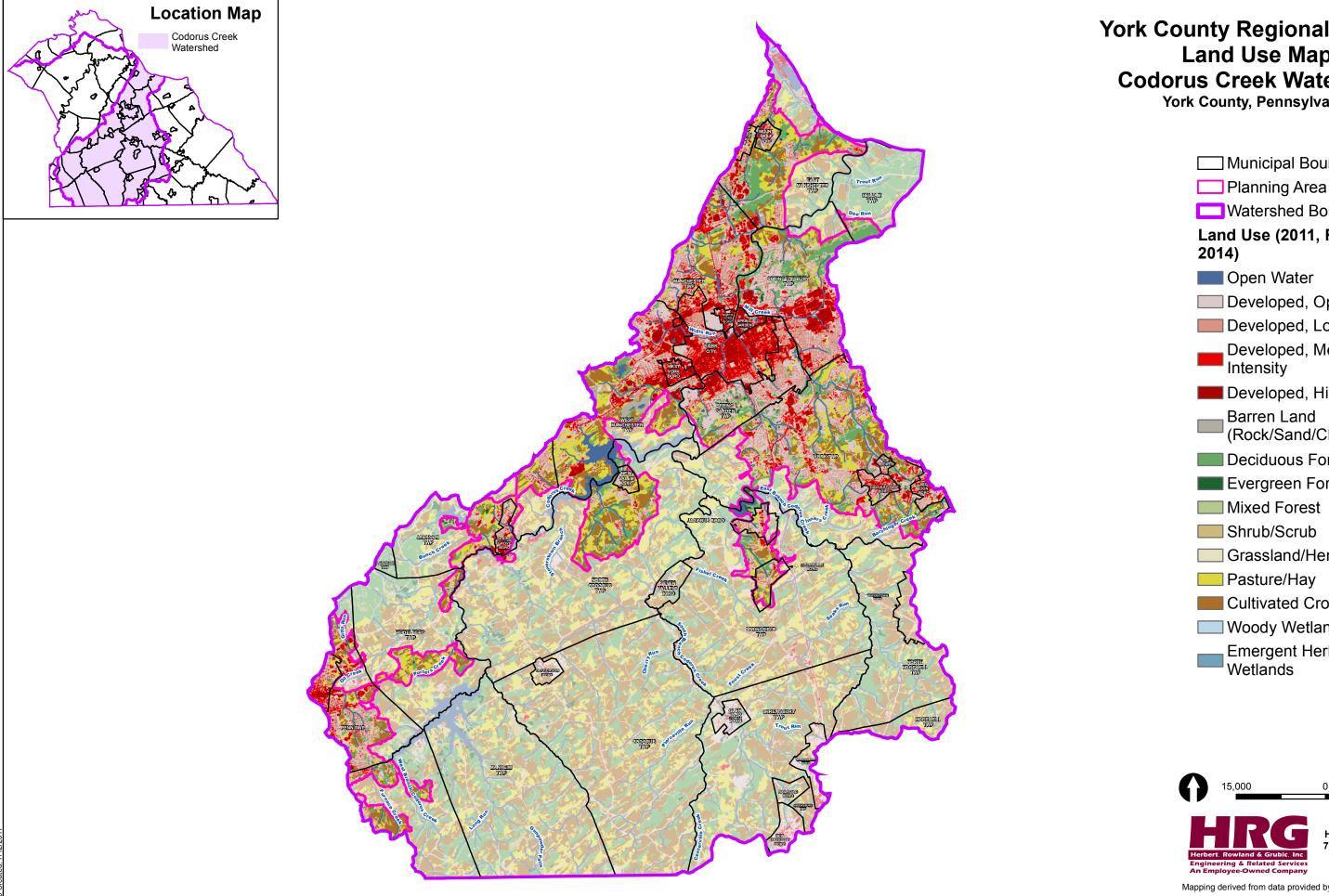






Mapping derived from data provided by York County and USGS.





York County Regional CBPRP Land Use Map Codorus Creek Watershed

York County, Pennsylvania

Municipal Boundary

Watershed Boundary

Land Use (2011, Revised

Developed, Open Space

Developed, Low Intensity

Developed, Medium

Developed, High Intensity

(Rock/Sand/Clay)

Deciduous Forest

Evergreen Forest

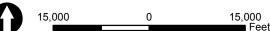
Grassland/Herbaceous

Pasture/Hay

Cultivated Crops

Woody Wetlands

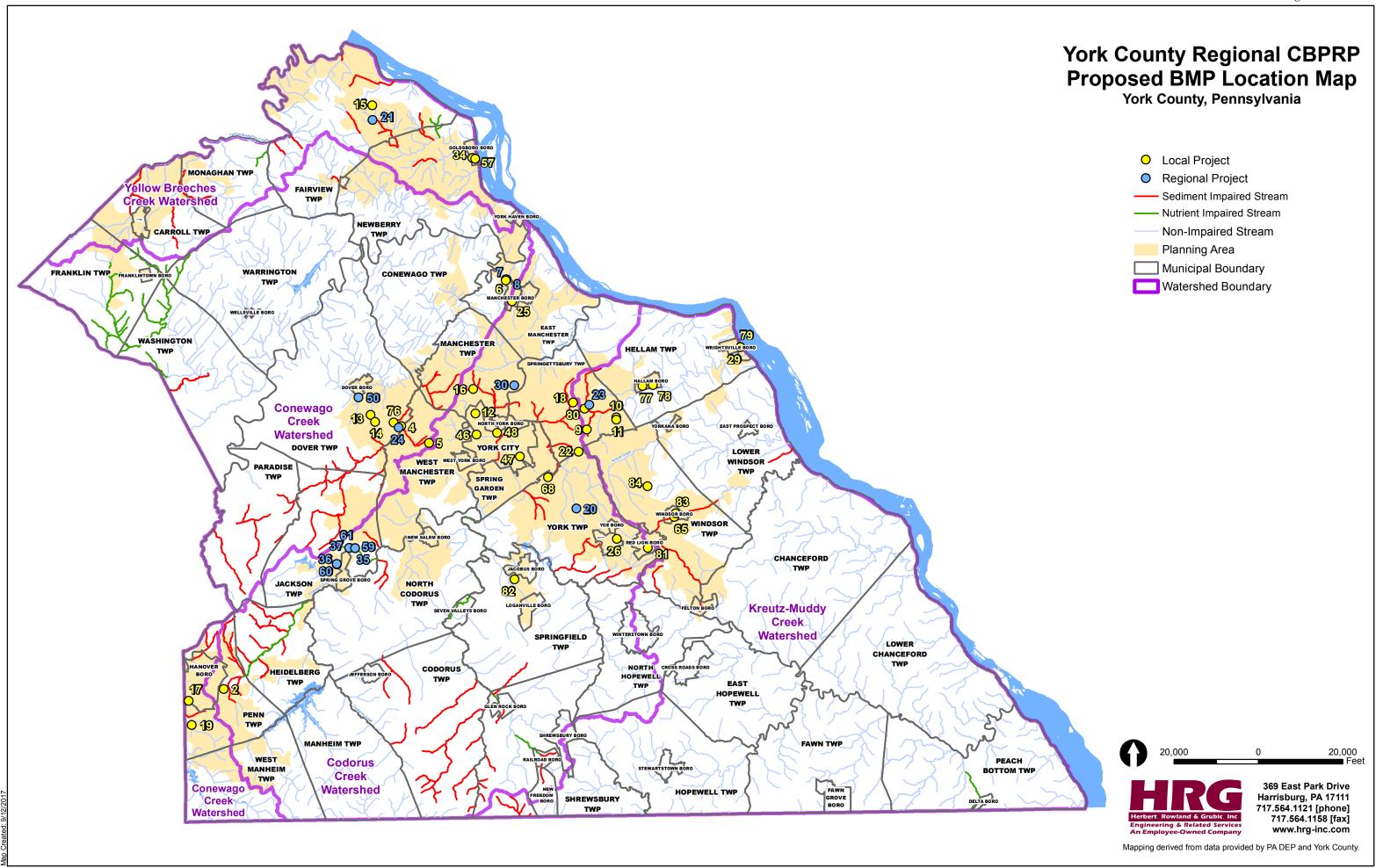
Emergent Herbaceous





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Mapping derived from data provided by York County and USGS.



APPENDIX IV

Municipal MS4 Requirements

Pollutants of Concern by Municipality

Municipality	MS4 Permit Required?	Impaired Downstream Waters	Requirement(s)
Carroll Township	Yes	Chesapeake Bay Nutrients\Sediment, Dogwood Run, Fishers Run, Stony Run	Appendix D-Siltation\Nutrients, Appendix E-Organic Enrichment/Low D.O., Siltation, Suspended Solids
Chanceford Township	Yes*	Chesapeake Bay Nutrients\Sediment, Pine Run	Appendix D-Siltation\Nutrients, Appendix E-Siltation
Conewago Township	Yes*	Chesapeake Bay Nutrients\Sediment	Appendix D-Siltation\Nutrients
Dallastown Borough	Yes	Chesapeake Bay Nutrients\Sediment, East Branch Codorus Creek, South Branch Codorus Creek, Barshinger Creek, Mill Creek	Appendix D-Siltation\Nutrients, Appendix E-Nutrients, Siltation, Suspended Solids
Dillsburg Borough	Yes	Chesapeake Bay Nutrients\Sediment, Dogwood Run, Stony Run	Appendix D-Siltation\Nutrients, Appendix E-Organic Enrichment/Low D.O., Siltation, Suspended Solids
Dover Borough	Yes*	Chesapeake Bay Nutrients\Sediment	Appendix D-Siltation\Nutrients
Dover Township	Yes	Chesapeake Bay Nutrients\Sediment, Honey Run, Little Conewago Creek	Appendix D-Siltation\Nutrients, Appendix E-Siltation
Fairview Township	Yes	Chesapeake Bay Nutrients\Sediment, Unnamed Tributaries to Yellow Breeches Creek, Yellow Breeches Creek, Big Spring Run, Fishing Creek, Marsh Run, Susquehanna River, Unnamed Tributaries to Fishing Creek	Appendix D-Siltation\Nutrients, Appendix E-Nutrients, Siltation
Felton Borough	Yes*	Chesapeake Bay Nutrients\ Sediment; Pine Run - Siltation	Appendix D-Siltation\Nutrients, Appendix E-Siltation
Franklintown Borough	Yes*	Chesapeake Bay Nutrients\Sediment, North Branch Bermudian Creek, Unnamed Tributaries to North Branch Bermudian Creek	Appendix D-Siltation\Nutrients, Appendix E-Nutrients, Siltation
Glen Rock Borough	No	n/a	
Goldsboro Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Susquehanna River	Appendix D-Siltation\Nutrients
Hallam Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Susquehanna River	Appendix D-Siltation\Nutrients

Municipality	MS4 Permit Required?	Impaired Downstream Waters	Requirement(s)
Hanover Borough	Yes	Chesapeake Bay Nutrients\Sediment, Plum Creek, South Branch Conewago Creek	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Siltation
Hellam Township	Yes*	Chesapeake Bay Nutrients\Sediment, Susquehanna River	Appendix D- Siltation\Nutrients
Jackson Township	Yes	Chesapeake Bay Nutrients\Sediment, Little Conewago Creek, Codorus Creek, Unnamed Tributaries to Codorus Creek,	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Suspended Solids
Jacobus Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Codorus Creek, East Branch Codorus Creek, South Branch Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Siltation, Suspended Solids
Lewisberry Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Bennet Run	Appendix D- Siltation\Nutrients, Appendix E-Siltation
Loganville Borough	Yes*	Chesapeake Bay Nutrients\Sediment, East Branch Codorus Creek, South Branch Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Suspended Solids
Lower Windsor Township	Yes*	Chesapeake Bay Nutrients\Sediment, Fishing Creek, Susquehanna River	Appendix D-Siltation\Nutrients, Appendix E-Siltation
Manchester Borough	Yes	Chesapeake Bay Nutrients\Sediment, Musser Run	Appendix D- Siltation\Nutrients, Appendix E-Suspended Solids
Manchester Township	Yes	Chesapeake Bay Nutrients\Sediment, Little Conewago Creek, Codorus Creek, Unnamed Tributaries to Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
Monaghan Township	Yes	Chesapeake Bay Nutrients\Sediment, Fishers Run, Stony Run	Appendix D- Siltation\Nutrients, Appendix E-Organic Enrichment/Low D.O., Siltation
Mount Wolf Borough	Yes	Chesapeake Bay Nutrients\Sediment	Appendix D- Siltation\Nutrients
New Salem Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Siltation
Newberry Township	Yes	Big Spring Run, Chesapeake Bay Nutrients\Sediment, Susquehanna River, Unnamed Tributaries to Fishing Creek, Bennett Run	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Siltation

Municipality	MS4 Permit Required?	Impaired Downstream Waters	Requirement(s)
North York Borough	Yes	Chesapeake Bay Nutrients\Sediment, Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
Penn Township	Yes	Chesapeake Bay Nutrients\Sediment, Plum Creek, South Branch Conewago Creek, Gitts Run, Oil Creek	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Siltation
Railroad Borough	No	n/a	
Red Lion Borough	Yes	Chesapeake Bay Nutrients\ Sediment, East Branch Codorus Creek, Mill Creek, Pine Run, Fishing Creek	Appendix D-Siltation\Nutrients, Appendix E-Nutrients, Siltation
Spring Garden Township	Yes	Chesapeake Bay Nutrients\Sediment, Codorus Creek, Mill Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
Spring Grove Borough	Yes	Chesapeake Bay Nutrients\Sediment	Appendix D- Siltation\Nutrients
Springettsbury Township	Yes	Chesapeake Bay Nutrients\Sediment, Susquehanna River, Unnamed Tributaries to Kreutz Creek, Codorus Creek, Mill Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
Springfield Township	Yes	Chesapeake Bay Nutrients\Sediment, East Branch Codorus Creek, South Branch Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Nutrients, Siltation, Suspended Solids
West Manchester Township	Yes	Chesapeake Bay Nutrients\Sediment, Honey Run, Little Conewago Creek, Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
West Manheim Township	Yes	Chesapeake Bay Nutrients\Sediment, South Branch Conewago Creek	Appendix D- Siltation\Nutrients, Appendix E-Siltation
West York Borough	Yes	Chesapeake Bay Nutrients\Sediment, Codorus Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
Windsor Borough	Yes	Chesapeake Bay Nutrients\Sediment, Fishing Creek	Appendix D-Siltation\Nutrients, Appendix E-Siltation
Windsor Township	Yes	Chesapeake Bay Nutrients\Sediment, Fishing Creek, Susquehanna River, Unnamed Tributaries to Kreutz Creek, North Branch Muddy Creek, Pine Run	Appendix D- Siltation\Nutrients, Appendix E-Siltation

Municipality	MS4 Permit Required?	Impaired Downstream Waters	Requirement(s)
Wrightsville Borough	Yes*	Chesapeake Bay Nutrients\Sediment, Susquehanna River	Appendix D- Siltation\Nutrients
Yoe Borough	Yes	Chesapeake Bay Nutrients\Sediment, Mill Creek	Appendix D- Siltation\Nutrients, Appendix E-Siltation
York City	Yes	Chesapeake Bay Nutrients\Sediment, Codorus Creek, Mill Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Siltation
York County	Yes*	n/a	
York Township	Yes	Barshinger Creek, Chesapeake Bay Nutrients\Sediment, East Branch Codorus Creek, Inners Creek, South Branch Codorus Creek, Codorus Creek, Mill Creek	Appendix D- Siltation\Nutrients, Appendix E-Excessive Algal Growth, Nutrients, Siltation, Suspended Solids
York Haven Borough	Yes*	Chesapeake Bay Nutrients \Sediment	Appendix D- Siltation\Nutrients

^{*} Received Advanced Waiver Approval Letter from PADEP

APPENDIX V

Existing Pollutant Loading Calculations

Baseline Reduction for Installed BMPs (Summary Table)

Permittee	ВМР Туре	Drainag (acre		Total	Area	Pollutant Load Reduction
		Impervious	Pervious	Acres	Ln Ft	TSS (lbs/yr)
	Infiltration Trench	1.16	0.00			
Carroll Twp.	Detention Pond/Basin	1.40	26.20			
	Bioretention	0.44	0.00			
	Vegetated Swale	4.92	6.09			
	Infiltration Basin/Bed	7.37	7.38			27,832
\arr	Rooftop Disconnection	0.07	0.00			
	Amended Soil	1.30	31.31			
	Water Quality Filters	0.50	0.43			
	Landscape Restoration	0.32	2.32			
	Pervious Pavement w/ Infiltration Bed	2.48	0.78			
	Dry Extended Detention Basin	1.85	0.38			
	Subsurface Infiltration Bed	1.26	0.10			
ro	Extended Detention	1.85	0.38			
Bo	Water Quality Filters	0.81	0.24			
Dillsburg Boro	Rain Garden/Infiltration Bed	0.10	0.30			8,400
lsbı	Vegetated Swale	0.00	0.13			,
Dill	Landscape Restoration	0.00	1.00			
	Soil Amendments & Restoration	0.00	0.15			
	Infiltration Berm & Retentive Grading	0.40	0.91			
	Disconnection from Storm Sewers	0.12	0.00			
	Infiltration Bed	3.36	0.01			
<u>ъ</u> .	Detention Basin	7.48	2.03			
Dover Twp.	Underground Retention Basin	0.70	0.28			15,157
000	Vegetated Swale	0.25	0.13			
	Rain Garden/Infiltration Bed	0.89	0.67			
	Seepage Pit	0.74	0.00			
ter	Infiltration Bed	1.05	1.49			
hes:	Wet Pond	21.56	9.69			
anc	Infiltration Trench Vegetated Swale	0.44 2.27	0.89 2.18			61,603
East Manches	Bioretention					01,000
ast		1.53	0.89			
	Dry Extended Detention Basin	32.84	13.84			
Fairview Twp.	Infiltration Basin	12.80	25.62			25,816
Fai	Subsurface SWM/BMP	1.20	0.98			
Hanover Boro	Wetlands			0.25		
anove	Detention Basin	3.71	5.15			4,087
	Sedimentation Basin	26.81	70.73			
Hellam Twp.	Rain Garden	1.15	1.17			8,005
He] Tv	Infiltration	3.60	4.79			0,000

Permittee	ВМР Туре	Drainage Area (acres)				
		Impervious	Pervious	Acres	Ln Ft	TSS (lbs/yr)
ı	Infiltration Bed	10.89	4.29			
Manchester Twp.	Detention Basin	38.73	87.56			
	Underground Retention Basin	4.40	1.89			70,196
	Rain Garden	0.12	0.07			
V	Vegetated Swale	2.02	1.23			
_	Infiltration Bed/Trench	3.54	2.88			
Monaghan Twp.	Porous Pavement	0.29	0.06			
onagh Twp.	Detention Basin	0.13	0.08			7,494
Мол	Rain Garden/Bioretention	0.59	0.50			
	Vegetated Swale	0.21	0.57			
ınt İlf ro	Stream Restoration	0.65	0.00		235	
Mount Wolf Boro	Wet Pond	0.35	0.05			10,869
	Dry Extended Detention Basin	1.17	3.13			
_•	Vegetated Swale	0.90	1.40			
dw.	Water Quality Filters	4.60	0.00			
уТ	Landscape Restoration	0.00	0.80			
Newberry Twp.	Soil Amendments & Restoration	0.00	18.50			41,680
ew	Infiltration Bed	3.30	1.25			
Z	Rain Garden/Bioretention	1.50	1.49			
	Wet Pond/Retention Basin	24.29	8.60			
	Soil Amendments	1.26	3.36	2.67		
	Vegetated Swale	1.90	1.35	0.08		
	Rain Garden/Bioretention	1.26	0.30			
	Infiltration Basin	14.08	16.33			
	Water Quality Filter	5.33	28.75			
dw	Dry Extended Detention Basin	2.20	6.71			
Penn Twp.	Riparian Buffer Restoration	0.68	1.13	1.81		50,238
Sen	Infiltration Trench	1.10	0.12			
	Dry Well/Seepage Pit	1.46	0.00			
	Pavement Disconnect	0.50	0.00			
	Infiltration Basin	2.33	4.50			
	Landscape Restoration	0.00	1.30	0.60		
	Street Sweeping	4.40	0.00			
0	Subsurface Storage Facility	0.15	0.00			
Spring Grove Boro	Pervious Pavement Infiltration Bed	1.10	0.00			
iro	Infiltration Basin	2.95	9.59			14,890
) g _i	Vegetated Swale	0.85	6.25			
orin	Wet Pond/Retention Basin	0.75	6.36			
S	Dry Detention Basin	15.40	84.90			

Permittee	ВМР Туре	Drainage (acre		Total	l Area	Pollutant Load Reduction TSS		
		Impervious	Pervious	Acres	Ln Ft	(lbs/yr)		
p.	Detention Basin	48.68	45.15					
Springettsbury Twp.	Infiltration Basin	33.98	20.34					
ıry	Bioretention Basin	40.22	24.48					
ıqsı	Infiltration Trench	6.08	8.42			179,140		
geti	Underground Detention Basin	6.56	6.15					
rin	Rain Garden	4.65	3.94					
$_{ m Sp}$	Vegetated Swale	0.64	2.95					
ı	Bioretention Basin	11.60	30.11					
West Manchester Twp.	Infiltration Bed	19.84	11.44					
West anches Twp.	Seepage Pit/Pervious Pavement	2.66	1.94			123,812		
V Man T	Seepage Pit/basin	35.09	18.66					
~	Basin/Amended soils	12.25	5.68					
ı	Infiltration Bed	5.26	7.00					
st ein p.	Porous Pavement	0.09	0.00					
West Manheim Twp.	Infiltration Basin	4.10	9.96			17,076		
$\mathbf{\Sigma}$	Vegetated Swale	0.10	2.20					
Windsor Boro	Stream Restoration	187.20	576.31		500	124,001		
	Dry Well/Seepage Pit	6.77	0.36					
wp.	Rain Garden Bioretention	0.67	0.14					
Windsor Twp.	Infiltration Trench	0.35	0.64					
qso	Subsurface Infiltration Bed	0.87	0.19			26,967		
7ino	Infiltration Basin	5.63	25.77					
S	Infiltration Trench w/ Water Quantity Filter	0.16						
	Subsurface Infiltration Bed	0.09	0.00					
	Water Quality Filter	7.85	4.35					
	Underground Rate Control Facility	4.87	2.77					
>	Street Sweeping	1.79	0.00					
York City	Dry Detention Basin	46.63	35.20					
ırk	Filter Strip	1.00	0.12			65,192		
Ϋ́	Runoff Capture and Reuse	0.60	0.08					
	Infiltration Basin	1.00	1.31					
	Downspout filter	0.30	0.00					
	Infiltration Trench	0.89	1.59					
	Rain Garden/Bioretention	2.61	1.82					
York County	Stream Restoration				1,190	66,099		
Ya	Vegetated Swale	10.80	6.29			00,099		

Permittee	BMP Type	Drainage Aı	rea (acres)	Total	Area	Pollutant Load Reduction TSS			
		Impervious	Pervious	Acres	Ln Ft	(lbs/yr)			
	Dry Extended Detention	9.94	19.27						
	Water Quality Filter	10.70	10.41						
ъ.	Subsurface Infiltration Bed	17.92	17.04						
York Twp.	Rain Garden / Bioretention Bed	2.19	3.42			56,908			
ork	Vegetated Swale	2.54	2.54			30,908			
Y	Snout	1.98	1.98						
	Level Spreader	0.00	1.23						
	Riparian Forest Buffer	2.86	27.69	11.69					
. •	Permeable Pavers	0.23							
ıter	Vegetated Swale	9.17							
Ce	Bioretention Facility	7.09							
ion	Channel/Bank Stabilization				52.5				
ibut	Riparian Buffer Strip	52.50				43,402			
Defense Distribution Center, Susquehanna	Bioswale	4.20				43,402			
e Di Sus	Dry Extended Detention Basin	21.31							
ens	Infiltration Basin	7.62							
Def	Wet Pond	5.02							
	Green Roof	2.70							
	Dry Detention Basin	93.35	0.00	0.59					
	Infiltration Basin	7.39	30.79	0.41					
	Bioretention	3.15	9.77	0.21					
TOO	Infiltration Berm	10.54	40.56	0.19					
PennDOT	Infiltration Trench	9.65	59.06	0.27		85,203			
Pel	Vegetated Swale w/ Check Dams	233.69	140.18	0.29					
	Vegetated Swale	451.12	280.36	0.11					
	Bioretention w/ Underdrain	0.10	0.13	0.01					
Total						1,134,067			

^{*} Pollutant load reductions calculated through BayFAST

		Location				nstallation		O&M			Drainage	Area (acres)	Т		IMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection BMP Date Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
Carrol Township - Brandon Slatt (717) 432-49	951						Activities									
CT Yard Waste Facil.	Carroll Twp	Fishers Run	40.110353	-76.986422	2016				YES		0.505	0				200x3x5
Mountain Crest Estates	Carroll Twp	Dogwood Run	40.111626	-77.047532	2016	PAG02-0067-12-013			YES		0.13	0				44x8x3
Mountain Crest Estates	Carroll Twp	Dogwood Run	40.112563	-77.047669	2016	PAG02-0067-12-013			YES		0.13	0	-			30x10x3
Mountain Crest Estates Mountain Crest Estates	Carroll Twp Carroll Twp	Dogwood Run Dogwood Run	40.112757 40.111226	-77.048115 -77.049505	2016 2015	PAG02-0067-12-013 PAG02-0067-12-013			YES YES		0.13	0				40x8x3 42x8x3
Mountain Crest Estates	Carroll Twp	Dogwood Run	40.111597	-77.049185	2015	PAG02-0067-12-013			YES		0.13	0				42x8x3
Mountain Crest Estates	Carroll Twp	Dogwood Run	40.112026	-77.04798	2016	PAG02-0067-12-013			YES		0.13	0	2216			
Mountain Crest Estates	Carroll Twp	Dogwood Run	40.111416	-77049144	2016	PAG02-0067-12-013			YES			1.6	3900			
Locust Hill Farms	Carroll Twp	Stoney Run	40.111303	-77.012654	2016	PAG02-0067-16-002			YES		1.4	26.2				
Locust Hill Farms Locust Hill Farms	Carroll Twp Carroll Twp	Stoney Run	40.110836 40.110199	-77.012915 -77.012678	2016 2016	PAG02-0067-16-002 PAG02-0067-16-002			YES YES		0.08	2.3				
Golfview Heights	Carroll Twp	Stoney Run Dogwood Run	40.110199	-77.012078	2016	PAG02-0067-16-002 PAG02006708019R			YES		0.62	1.1				
Golfview Heights	Carroll Twp	Dogwood Run	40.102345	-77.041484	2016	PAG02006708019R			YES		0.07	0				
Stonebridge Crossing	Carroll Twp	Fishers Run	40.124718	-77.008174	2016	PAG2006715069			YES		1.303	2.41				•
Stonebridge Crossing	Carroll Twp	Fishers Run	40.124456	-77.008841	2015	PAG2006715069			YES		0.118	0.194				
Stonebridge Crossing	Carroll Twp	Fishers Run	40.125686	-77.007278	2016	PAG2006715069			YES		0.227	0.431				
Stonebridge Crossing Advance Auto Parts	Carroll Twp Carroll Twp	Fishers Run Fishers Run	40.124692 40.130653	-77.006474 -77.017979	2016 2014	PAG2006715069			YES YES		0.32	0.323				
Gage Storage	Carroll Twp	Fishers Run	40.126187	-77.017979	2015				YES		5.18	3.35	+			
Turkeyfoor Nursery	Carroll Twp	Dogwood Run	40.141497	-77.034752	2016	PAG02006716001		<u> </u>	YES		1.02	1.27				35x120x2
Hope Grace Church	Carroll Twp	Fishers Run	40.102552	-77.017753	2015	PAG02006714002			YES		0	3.2	72200	•		
Logan Meadows	Carroll Twp	Fishers Run	40.119889	-77.020663	2015	PAG02006709054R			YES							
Logan Meadows	Carroll Twp	Fishers Run	40.120781 40.119946	-77.023052 -77.017547	2014 2016	PAG02006709054R PAG02006709054R			YES							
Logan Meadows Windy Heights	Carroll Twp Carroll Twp	Fishers Run Stoney Run	40.119946 40.10255	-77.017547 -77.025515	2016 2015	PAG02006709054R PAG02006705024R			YES YES		0.29	0	1			60x35x3
Windy Heights	Carroll Twp	Stoney Run	40.104195	-77.023515	2015	PAG02006705024R			YES		0.23	2				0003303
Windy Heights	Carroll Twp	Stoney Run	40.101536	-77.023791	2015	PAG02006705024R			YES		4.8	2				
Windy Heights	Carroll Twp	Stoney Run	40.103127	-77.023729	2016	PAG02006705024R	-		YES		0	25.7		-		
Presbyterian Homes	Carroll Twp	Trib to Yellow Breeches	40.136282	-77.017662	2013	PAG2006705121			YES		0.195	0				
Sheetz 57 Campground Road	Carroll Twp	Dogwood Run	40.116544 40.139089	-77.038326 -77.007843	2013 2016	PAG02006716005		+	YES YES		0.08	0	66503			
57 Campground Road	Carroll Twp Carroll Twp	Dogwood Run Dogwood Run	40.139089	-77.007843 -77.051577	2016	PAG02006716005 PAG02006716005		+	YES		0.09	0.96	4500			
Dillsburg Borough - Tim Knoebel, P.E. (717) 3.		Dogwood NdII	-0.112012	, , , , , , , , , , , , , , , , , , , ,	2010				IES	i	0.05	0.7	+500		ı l	
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Dogwood Run	40.111964	-77.039227			1A	see plans	YES		0.66	0.12	20,887	-	-	13,994
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Dogwood Run	40.112046	-77.039089	2003	n/a	1A	see plans	YES	ECI Properties	0.56	0.19	18,249	-	-	12,227
Dry Extended Detention Basin	Dillsburg Boro	Dogwood Run	40.112363	-77.039284			1B	see plans	YES		0.82	0.14	3,990	-	-	-
Subsurface Infiltration Bed Subsurface Infiltration Bed	Dillsburg Boro Dillsburg Boro	Dogwood Run Dogwood Run	40.111561 40.111118	-77.037928 -77.038143	2003	n/a	2 2	see plans see plans	YES YES	ECI Properties	0.26	-	3,200 300	-	-	3,840 360
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Dogwood Run	40.111118	-77.038143			3	see plans	YES		0.03	0.12	5,981		-	7.955
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Dogwood Run	40.112556	-77.038821	2007	n/a	3		YES	ECI Properties	0.19	0.21	5,783	_	-	7,691
Dry Extended Detention Basin (subsurface)	Dillsburg Boro	Dogwood Run	40.116253	-77.038262			4A	see plans	YES		0.83	_		-	-	6,002
			40.116081	-77.038772	2008	unknown	4A	see plans	YES	Sheetz, Inc.			-	-	-	4,447
Water Quality Filters	Dillsburg Boro	Dogwood Run	40.116101	-77.038291			4B		YES		0.61	-	-	-	-	
Rain Garden / Infiltration Bed Vegetated Swale	Dillsburg Boro Dillsburg Boro	Dogwood Run Dogwood Run	40.115671 40.115772	-77.036038 -77.036338	2012	n/a	5A 5B		YES YES	Jack Panas	0.10	0.30	3,250 640	-	-	3,250
															·	
Dry Extended Detention Basin (subsurface)	Dillsburg Boro	Fishers Run	40.106342	-77.032557	2014	n/a	6A	see plans	YES	Northern York	0.20	0.24	923	-	-	-
Water Quality Filters	Dillsburg Boro	Fishers Run	40.106487	-77.032884			6B	see plans	YES	School District	0.20	0.24	-	-	-	-
Subsurface Infiltration Bed	Dillsburg Boro	Dogwood Run	40.112099	-77.038291	2015	n/a	7		YES	ECI Properties	0.90	0.10	2,568	-	-	2,568
Disconnection from Storm Sewers	Dillsburg Boro	Dogwood Run	40.114164	-77.038360	2016	n/a	8		YES	James Merritts	0.12	-	-	-	-	-
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Dogwood Run	40.109041	-77.039312	2016	n/a	9		YES	Life in Christ Fellowship	0.35	0.14	8,080	-	-	5,387
Infiltration Berm & Retentive Grading	Dillsburg Boro	Fishers Run	40.107668	-77.029084			10A		YES	Tellowship	0.40	0.91	10,350	-	-	
Landscape Restoration	Dillsburg Boro	Fishers Run	40.108360	-77.029655			10B		YES	Borough of	-	1.00	-	-	750	-
Pervious Pavement with Infiltration Bed	Dillsburg Boro	Fishers Run	40.107664	-77.029084	2016	PAG02006711055R-2	10C	see plans	YES	Dillsburg	0.54	-	23,340	-	-	15,638
Soils Amendment & Restoration	Dillsburg Boro	Fishers Run	40.107406	-77.029689			10D		YES	6	-	0.15	6,430	-	-	-
Subsurface Infiltration Bed Dover Township - Terry Myers (CS Davidson)	Dillsburg Boro (717) 846-4805	Fishers Run	40.107664	-77.029084			10E		YES		0.05	-	106	-	-	106
Infiltration Bed	Dover Twp/Dover Boro	Fox Run	39.997171	-76.85163	2010	unknown	see attached	see attached	yes		1.56	0				15,323
Infiltration Bed	Dover Twp/Dover Boro	Fox Run	39.997976	-76.853026	2010	unknown	see attached	see attached	yes		1.53	0.01				14932
Infiltration Bed	Dover Twp/Dover Boro	Fox Run	39.996874	-76.851699	2010	unknown	see attached	see attached	yes		0.27	0				341
Basin	Dover Twp/Dover Boro	Fox Run	39.998082	-76.853543	2010	unknown	see attached	see attached	yes		3.47	0.34	3750			
Underground Retention Basin	Dover Twp	Fox Run	39.993263	-76.842807 76.919677	2012	PAG-2-0067-10-033	see attached	see attached	yes		0.7	0.28	450			
Vegetated Swale Rain Garden	Dover Twp Dover Twp	Little Conewago Creek Little Conewago Creek	39.982401 39.98359	-76.818677 -76.823041	2013 2013	not required PAG02-0067-13-006	see attached see attached	see attached see attached	yes		0.25	0.13 0.24	450 1440			
Rain Garden	Dover Twp	Little Conewago Creek	39.983136	-76.983116	2013	PAG02-0067-13-006	see attached	see attached	yes yes		0.33	0.24	1500			
Rain Garden	Dover Twp	Little Conewago Creek	39.982819	-76.823483	2013	PAG02-0067-13-006	see attached	see attached	yes		0.23	0.21	1650			
Basin	Dover Twp	Fox Run	39.990959	-76.83785	2015	PAG02-0067-14-031	see attached	see attached	yes		4.01	1.69	24807			
Seepage Pit x18	Dover Twp	Fox Run	40.005503	-76.811241		unknown	see attached	see attached	yes		0.74	0				9290
Rain Garden East Manchester Township - Byron Trout, GLI	Dover Twp	Little Conewago Creek	39.981324	-76.812041	2016	not required	see attached	see attached	yes	l	0.085	0	600		<u> </u>	
Starbucks Subsurface infiltration Bed	East Manchester Twp	Little Conewago Creek	40.050833	76.739167	17/09/2014	PAG02006712056	Twp Insp	Yearly	16-Jun Yes	Starbucks Co.	0.79	0.12	10240	0	n	12750
Advance Auto - Subsurface Infiltration Bed	East Manchester Twp	Hartman Run	40.030833	76.723611	13/11/2014	No	Twp Insp	Yearly	16-Jun Yes	Advance Auto	0.79	0.12	6000	0	0	8400
										East Manchester				· · · · · · · · · · · · · · · · · · ·	·	
East Manchester - Subsurface Infiltration Bed	East Manchester Twp	Hartman Run	40.058611	76.696944	2012	No	Twp Insp	Yearly	16-Jun Yes	Township	0.245	0	1500	0	0	8500
Orchard Bussiness Park Lot 1 - Wet Pond	East Manchester Twp	Little Conewago Creek	40.047222	76.735833	2012	PAG02006712031	Twp Insp	Yearly	16-Jun Yes	Kinsley Prop.	21.56	9.69	85000	0	0	323400
Orchard Bussiness Park Lot 1 - Vegetated	East Manchester Twp	Little Conewago Creek	40.05	76.736667	2012	PAG02006712031	Twp Insp	Yearly	16-Jun Yes	Kinsley Prop.	2.27	2.18	14774	0	0	29284
Swale Orchard Bussiness Park Lot 1 - Infiltration Basin	East Manchester Twp	Little Conewago Creek	40.048611	76.737222	2012	PAG02006712031	Twp Insp	Yearly	16-Jun Yes	Kinsley Prop.	0.18	0.92	12910	0	0	20160
Wellspan - Subsurface Infiltration Bed	East Manchester Twp	Hartman Run	40.048611	76.725556	2011	PAG2006710036	Twp Insp	Yearly	16-Jun Yes	Wellspan	1.6	0.3	6992	0	0	21212
Wellspan - Subsurface Infiltration Bed	East Manchester Twp	Hartman Run	40.048889	76.724722	2011	PAG2006710036	Twp Insp	Yearly	16-Jun Yes	Wellspan	0.51	0.03	1440	0	0	4912
Royal Manchester - Infiltration Trench	East Manchester Twp	Hartman Run	40.080833	76.0675	2010	PAS10Y070R	Twp Insp	Yearly	16-Jun Yes	Royal Manchester	0.44	0.89	4148	0	0	5358
CVS - Bio Retention	East Manchester Twp	Codorus Creek	40.040556	76.723889	2010	PAG2006709020	Twp Insp	Yearly	16-Jun Yes	CVS	1.53	0.89	3053	0	0	16117
Orchard Bussiness 10/11 - Dry Extended		Little Concurred Const.	40.053889			PAG2006108040		1		Olling Inc		6.00		0	0	
Detention Orchard Bussiness 10/11 - Dry Extended	East Manchester Twp	Little Conewago Creek		76.746667	2010		Twp Insp	Yearly	16-Jun Yes	Ollies Inc.	15.55	6.99	15582			3877
Detention Orchard Bussiness 10/11 - Dry Extended Orchard Bussiness 10/11 - Dry Extended	East Manchester Twp	Little Conewago Creek	40.054444	76.748056	2010	PAG2006108040	Twp Insp	Yearly	16-Jun Yes	Ollies Inc.	9.32	3.44	15981	0	0	3995
Detention	East Manchester Twp	Little Conewago Creek	40.057778	76.747222	2010	PAG2006108040	Twp Insp	Yearly	16-Jun Yes	Ollies Inc.	7.97	3.41	21389	0	0	5347

		Location			1	Installation		0&M				Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection Date	BMP Functioning?	Responsible person/agency for	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)		Trench L/W/D (CF)
							Activities		Date	r unctioning:	inspections			Area (Sr)	cengui (ci)	width & Length (Li)	
Fairview Township - Paul Rodrigo (717) 901-529	98	1		1	1			1				ı	ı			1	
Pa Turnpike Project Infilitration Basin	Fairview Twp.	Lower Susquehanna	40*12'14"	(-76*51'20")	2016	PAG02006715031	See Sheet 1			Yes	JMT/PATC	0.00	0.69	9,947			
Holiday Inn Express	raliview Iwp.	Lower Susquenanna	40 12 14	(-70 31 20)	2010	FAG02000713031	See Silect 1			res	JWII/FAIC	0.00	0.05	3,347			
Subsurface SWM/BMP Facility	Fairview Twp.	Yellow Breeches	40°13'0.32"N	76°52'39.37"W	2015	PAG02006713002	See Sheet 2			Yes		1.20	0.98	2,425			
Woodbridge Farms PH 10 & 11 Infiltation Basin	Fairview Twp.	Fishing Creek	40°10'43.68"N	76°48'15.11"W	2016		See Sheet 3			Yes		4.83	16.46	12,590			
Fed Ex Ground-Truck Parking Infiltration Basin	Fairview Twp.	UNT to Fishing Creek	40° 9'55.64"N	76°50'12.47"W	2011	PAG2006711035	See Sheet 4			Yes		3.91	2.59	209,947			
Vegetated Swale			40° 9'56.70"N	76°50'16.13"W		PAG2006711035	See Sheet 4			Yes		5.51	2.33	164,438			
Fed Ex Ground-Employee Parking Susquehanna Sports Center	Fairview Twp.	UNT to Fishing Creek			2013		See Sheet 5										
Infiltration Basin Hanover Borough -	Fairview Twp	Yellow Breeches	40°12'49.78"N	76°53'5.06"W	2014	PAG02006712052	See Sheet 6			Yes		176,854 ft2	256,132 ft2	346,302			
Created wetlands	Hanover Boro	Codorus	39.812894	-76.968795	2015	PAG02-0067-03-054R-1	. 0	moderate		yes		7.711155	7.711155	10,752.70			
detention basin sedimentation basin	Hanover Boro Hanover Boro / Private	Codorus Conewago	39.811537 39.826747	-76.971509 -76.992137	2016 2010	PAG-02-0067-11-038R PAG02-0067-04-069R	mowing mowing	moderate moderate		yes yes		2.17595 24.365	2.17595 24.365	11,432.90 134346.9			
sedimentation basin detention basin	Hanover Boro / Private Hanover Boro / Private	Conewago Conewago	39.827535 39.820265	-76.988567 -76.975569	2010 2016	PAG02-0067-04-069R PAG02006714058	mowing mowing	moderate moderate		yes yes		2.4405 1.539	46.3695 2.973	18,499.80 15606.9			
Hellam Township - Chris Eaton (717) 434-1300	Hallover Bolo / Hivate	conewago	35.828283	-70.575505	2010	1 AG02000714030	mowing	moderate	1	yes	1	1.555	2.373	13000.3	1	1 1	-
Bio Retention Basin (2) and Grass lined swale	Hellam Twp	Kreutz Creek	40.010852	-76.59727	Nov-15	PAG02006708010R	Inspection	Quarterly	11/26/2016	Yes		0.57	1.98	7931	N/A	N/A	N/A
Grass Lined Swale Subsurface Infiltration	Hellam Twp Hellam Twp	Kreutz Creek Kreutz Creek	40.001734 40.008079	-76.623258 -76.632003	10/14/2016 11/3/2016	N/A N/A	Inspection Inspection	Quarterly Quarterly	10/14/2016 11/3/2016	Yes Yes		0.01 0.06	0.01 0.033	N/A N/A	N/A N/A	N/A N/A	N/A 60' x 4' x 3'
Bio Swale (5)	Hellam Twp	Kreutz Creek Kreutz Creek	40.008079	-76.632003	7/16/2016	N/A	Inspection	Quarterly	11/3/2010	Yes		1.54	32.87	5952 Sq. Ft	N/A	N/A N/A	N/A
Stream Bank Restoration (58)	Hellam Twp	Susquehanna	40.03977	-76.53804	4/30/2015	PAGP-03-67-14-114 PAGP-04-67-14-113	Inspection	Quarterly	<u> </u>	Yes	<u> </u>	0.09	0.07	N/A	80 Feet	N/A	N/A
Rain Garden Retention Basin (Public Works)	Hellam Twp Hellam Twp	Kreutz Creek Kreutz Creek	40.01273 40.014309	-76.59267 -76.581661	5/31/2014 2010	N/A PAG2006708035	Inspection Inspection	Quarterly Monthly	11/23/2016 11/23/2016	Yes Yes		0.032 6.01	0.003 3.78	138 sq. feet 15763 Sq. Ft	N/A N/A	N/A N/A	N/A N/A
Bio Retention Basin (2) and Grass lined swale	Hellam Twp	Kreutz Creek Kreutz Creek	40.014309	-76.581661	2010 Nov-15	PAG2006708035 PAG02006708010R	Inspection	Quarterly	11/23/2016	Yes		0.57	1.98	7931	N/A N/A	N/A N/A	N/A N/A
Grass Lined Swale	Hellam Twp	Kreutz Creek	40.001734	-76.623258	10/14/2016	N/A	Inspection	Quarterly	10/14/2016	Yes		0.01	0.01	N/A	N/A	N/A	N/A
Subsurface Infiltration Bio Swale (5)	Hellam Twp Hellam Twp	Kreutz Creek Kreutz Creek	40.008079 40.02795	-76.632003 -76.61929	11/3/2016 7/16/2016	N/A N/A	Inspection	Quarterly Quarterly	11/3/2016	Yes Yes		0.06 1.54	0.033 32.87	N/A 5952 Sq. Ft	N/A N/A	N/A N/A	60' x 4' x 3' N/A
Stream Bank Restoration (58)	Hellam Twp	Susquehanna	40.02795	-76.61929 -76.53804	7/16/2016 4/30/2015	PAGP-03-67-14-114	Inspection Inspection	Quarterly		Yes		0.09	0.07	5952 Sq. Ft N/A	N/A 80 Feet	N/A N/A	N/A N/A
Rain Garden	Hellam Twp	Kreutz Creek	40.01273	-76.59267	5/31/2014	PAGP-04-67-14-113 N/A	Inspection	Quarterly	11/23/2016	Yes		0.032	0.003	138 sq. feet	N/A	N/A	N/A
Retention Basin (Public Works) Manchester Township - BJ Treglia (Engineer/CS	Hellam Twp	Kreutz Creek	40.014309	-76.581661	2010	PAG2006708035	Inspection	Monthly	11/23/2016	Yes		6.01	3.78	15763 Sq. Ft	N/A	N/A	N/A
Infiltration Bed Basin Basin Infiltration Bed	Manchester Township Manchester Township Manchester Township	Codorus Creek Codorus Creek Little Conewago Creek Codorus Creek	39.995879 39.995549 40.032464 40.036816	-76.733567 -76.733172 -76.756826	2011 2011 2015 2015	Yes, but not available Yes, but not available Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE, IMMEDIATELY STABILIZE BRASE SPOTS OR FRODED AREAS, RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT INECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS General Inspection 1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE, IMMEDIATELY STABILIZE BRASE SPOTS OR REODED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED (SASS AREAS TO MAREAS THA	Annually and after any majo rainfall event Annually and after any majo rainfall event 1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 4. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EVENTS EXCEPTING 1 INCH OF RAINFALL 5. AFTER STORM EXCEPTING 1 INCH OF RAINFALL THE		Yes Yes Yes		0.128 18.7	0.22				
Infiltration Bed	Manchester Township	Codorus Creek	40.28992	-76.73419	2015	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDDE REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE, IMMEDIATELY STABILIZE BASE SPOTS OR REDOED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS			Yes		0.446	0				
Basin	Manchester Township	Codorus Creek	39.991573	-76.74204	2015	Yes, but not available	General Inspection	Annually and after any majo rainfall event	r	Yes		1.5	13.74				
Basin	Manchester Township	Codorus Creek	40.00546	-76.719156	2016	Yes, but not available	General Inspection	Annually and after any majo rainfall event	r	Yes		0.12	1.68				
L		1	I	1	1	1	1	rannan event	1		1			l .	1		

		Location				Installation		0&M			Drainag	ge Area (acres)			BMP Information	
BMP Type/Description										Responsible						
(DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #	Activities	Frequency	Last inspection BMI Date Function	nerson/agency	for Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
Manchester Township - continued								Annually and after any major								
Basin	Manchester Township	Codorus Creek	40.019305	-76.718088	2015	Yes, but not available	General Inspection	rainfall event	Yes		1.	6 0.5	54			
Basin	Manchester Township	Codorus Creek	40.019617	-76.719727	2015	Yes, but not available	General Inspection	Annually and after any major rainfall event	Yes		0.3	5 0.3	32			
Vegetated Swale	Manchester Township	Codorus Creek	40.020044	-76.71808	2015	Yes, but not available	Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation) Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed. Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade. Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting. Inspect for litter; remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed. Inspect swale inlet and outlet for signs of erosion or blockage, correct as needed. Inspect swale inlet and outlet for signs of erosion or blockage, correct as needed. Maintenance to be done as needed: Plant alternative grass species in the event of unsuccessful establishment. Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming. Rototill and replant swale if faraw down time is more than 48 hours. Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified. Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Winter conditions also necessitate additional maintenance concerns, which include the following: immediately after the spring melt, remove residuals (e.g. sand) and replace damaged vegetation without disturbing remaining vegetation. If roadside or parking for runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents. Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated stall. Use sail-tolerant vegetation in swales. (adapted fro	f of Maintenance activities to be done annually and within 48 hours after every major storm event (>1 inch rainfall depth)	Yes		0.05	5 0.14	35			
Vegetated Swale	Manchester Township	Codorus Creek	40.019513	-76.718026	2015	Yes, but not available	Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation) Inspect vegetation on side slopes for erosion and formation of rills or guillies, correct as needed. Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade. Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting. Inspect for litter; remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed. Inspect swale inlet and outlet for signs of erosion or blockage, correct as needed. Maintenance to be done as needed: Plant alternative grass species in the event of unsuccessful establishment. Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming. Rototill and replant swale if draw down time is more than 48 hours. Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified. Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Winter conditions also necessitate additional maintenance concerns, which include the following: Immediately after the spring melt, remove residuals (e.g. sand) and replace damaged vegetation without disturbing remaining vegetation. If roadside or parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents. See nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt. Use salt-tolerant vegetation in swales. (adapted from 363-0300-002 / Dec 30, 2006, pgs 95-96)	f bl Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth)	Yes		1.	6 0.3	54			
Vegetated Swale	Manchester Township	Codorus Creek	40.004273	-76.716511	2012	Yes, but not available	Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation) Inspect vegetation on side slopes for erosion and formation of rills or guilles, correct as needed. Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade. Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; now only when swale is dry to avoid rutting. Inspect for litter; remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed. Maintenance to be done as needed: Plant alternative grass species in the event of unsuccessful establishment. Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming. Rototill and replant swale if draw down time is more than 48 hours. Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified. Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Winter conditions also necessitate additional maintenance concerns, which include the following: Immediately after the spring melt, remove residuals (e.g. sand) and replace damaged vegetation without disturbing remaining vegetation. If roadside or parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents. Is enontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt. Use salt-tolerant vegetation in swales. (adapted from 363-0300-002 / Dec 30, 2006, pgs 95-96)	f bl Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth)	Yes		0.19	2 0.24	18			

		Location			1	Installation		0&M				Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection Date	BMP Functioning?	Responsible person/agency for	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoratio Length (LF)		Trench L/W/D (CF)
							Activities				inspections						
Manchester Township - continued Vegetated Swale	Manchester Township	Codorus Creek	40.00461	-76.717578	2012	Yes, but not available	Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation). Inspect vegetation on side slopes for erosion and formation of rills or guillies, correct as needed. Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade. Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local compositing facility; mow only when swale is dry to avoid rutting. Inspect for litter; remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed. Maintenance to be done as needed: Plant alternative grass species in the event of unsuccessful establishment. Reseed bare areas; install appropriate erosion contro measures when native soil is exposed or erosion channels are forming. Rototill and replant swale if draw down time is more than 48 hours. Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified. Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Winter conditions also necessitate additional maintenance concerns, which include the following: Immediately after the spring melt, remove residuals (e.g. sand) and replace damaged vegetation without disturbing remaining vegetation. If roadside or parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of decining agents. Use nontoxic, organic decing agents, applied either as blended, magnesium chloride-based liguid products or as pretreated salt. Use salt-tolerant vegetation in swales. (adapted from 363-0300-002 / Dec 30, 2006, pgs 95-96)	done annually and within 4thours after every major storm event (> 1 inch rainfa depth)	1	Yes		0.096	0.114				
Basin	Manchester Township	Little Conewago Creek	40.02485	-76.762604	2012	Yes, but not available	General Inspection	Annually and after any major rainfall event	or	Yes		2.88	15.4				
Basin	Manchester Township	Little Conewago Creek	40.023167	-76.761096	2015	Yes, but not available	General Inspection	Annually and after any majo rainfall event	or	Yes		3.414	14.47				
Underground Retention Basin	Manchester Township	Codorus Creek	39.982938	-76.726693	2011	Yes, but not available	1. Inspect all water quality inlets at least once every 30 days for the first year after the York County Conservation District certifies that the site has achieved permanent stabilization. 2. Create, maintain, and make available upon request written inspection reports of all water quality inspections. Those reports shall record dates and depths of all rain events of 0.5 inches or greater, depths of grit and sediment captured in each inlet, and description of floatable debris and oils on the surface of the captured water. 3. After the first year mentioned in 1, inspect all water qualities inlets at least once every six months or more often, if the manufacturer recommends based upon the inspection reports. 4. Have all accumulated grit sediment, floatable debris and oils removed from each quality inlet: whenever a spill or other incident causes a larger than normal accumulation of pollutants in the inlet; at least every six months; whenever sediment accumulates to within 6 inches of the snout bottom; or whenever floatable debris and oil (logs form a laver greater than 3 inches thick. 5. Have pollutants removed from water quality inlets using a vacuum truck. 6. Obtain, maintain, and make available upon request documentation that pollutants removed from water quality inlets are handled and disposed of in accordance with all requirements of all applicable local, state, and federal laws, regulations, and policies. 7. Inspect and have maintained the snout hoods at least once every year: inspect the anti-siphon vent and access hatch; check to assure than a flexible wire and flush the vent; open and close the access hatch; check to assure than the gasket forms a water tight seal between the hood and inlet wall; and continue inspection reporting pursuant to 1 and 2. (from Design Plans, Sheet # C-4)			Yes		4.403	1.887				
Basin	Manchester Township	Codorus Creek	40.012048	-76.732396	2015	Yes, but not available	General Inspection	Annually and after any major rainfall event	or	Yes		1.33	0.64				
Vegetated Swale	Manchester Township	Codorus Creek	40.012388	-76.73283	2015	Yes, but not available	Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation). Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed. Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade. Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting. Inspect for litter; remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed. Inspect swale inlet and outlet for signs of erosion or blockage, correct an needed. Maintenance to be done as needed: Plant alternative grass species in the event of unsuccessful establishment. Reseed bare areas; install appropriate erosion contro measures when native soil is exposed or erosion channels are forming. Rototill and replant swale if draw down time is more than 48 hours. Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified. Water during dry periods, Fertilize, and apply pesticide only when absolutely necessary. Winter conditions also necessitate additional maintenance concerns, which include the following: Immediately after the spring melt, remove residuals (e.g. sand) and replace damaged vegetation without disturbing remaining vegetation. If roadside or parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of decing agents. Use nontoxic, organic decing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt. Use salt-tolerant vegetation in swales. (adapted from 363-0300-002 / Dec 30, 2006, pgs 95-96)	Maintenance activities to bidone annually and within 4thours after every major storm event (> 1 inch rainfadepth)	1	Yes		0.08	0.14				
Basin	Manchester Township	Codorus Creek	40.024663	-76.73299	2016	Yes, but not available	General Inspection	Annually and after any majo rainfall event	or	Yes		0.96	0.56				
Basin	Manchester Township	Codorus Creek	39.993134	-76.748181	2014	Yes, but not available	General Inspection	Annually and after any major rainfall event	or	Yes		7.75	27.1				

		Location			In	stallation		O&M				Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #	Activities	Frequency	Last inspection Date	BMP Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
Manchester Township - continued Infiltration Bed	Manchester Township	Little Conewago Creek	40.029464	-76.746356	2015	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE, IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS, RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10 ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10 RONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10 RONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 11 PARTICIPATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL		Yes		0.092	o				
Infiltration Bed	Manchester Township	Codorus Creek	40.031282	-76.729366	2016	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10 ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 15 PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL		Yes		2.2					
Infiltration Bed	Manchester Township	Codorus Creek	40.031037	-76.729245	2016	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, RODG LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE, IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS, RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILITRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL		Yes		1.19					
Infiltration Bed	Manchester Township	Codorus Creek	40.031021	-76.728338	2016	Yes, but not available	I. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING I INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10. PROHIBIT STORAGE OF HAZARADOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL		Yes		0.08					
Infiltration Bed	Manchester Township	Codorus Creek	40.032784	-76.728719	2016	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACE INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.I.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 10 ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 15 PROHIBIT STORAGE OF HAZARADOUS MATERIALS ON SUBSURFACE INFILITRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL		Yes		1.648	0.446				

		Location				Installation		O&M			Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #	Activities	Frequency	Last inspection BMP Date Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
Manchester Township - continued																
Infiltration Bed	Manchester Township	Codorus Creek	40.03273	-76.729738	2016	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING I INCH OF RAINFALL, INSPECT SUBSURFACI INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREA TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF	Yes		0.489	1.2:	3			
Infiltration Bed	Manchester Township	Codorus Creek	40.032519	-76.730496	2016	Yes, but not available	L INSPECT SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACI INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWINING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREA TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	1. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 2. AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF	Yes		0.668	0.201	3			
Infiltration Bed	Manchester Township	Codorus Creek	40.03129	-76.730494	2016	Yes, but not available	1. INSPECT SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEAN OUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. 2. REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS, CLEANOUTS, RAIN GUTTERS, ROOF LEADERS, INLET STRUCTURES, AND AREAS DRAINING TO BEDS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS 3. AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL, INSPECT SUBSURFACI INFILTRATION BED CLEANOUTS, AND/OR GRASS AREAS TO DETERMINE IF THEY DRAIN WITHIN 72 HOURS 4. MAINTAIN SUBSURFACE INFILTRATION BED (S.1.B.) GRASS AREAS IN GOOD CONDITION, GRAS STABILIZATION (I.E. > 75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE.) IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS, RESTRICT MOWING FOR AT LEAST 72 HOURS AFTER STORM/RAINFALL EVENTS 5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREA TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS 6. PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON SUBSURFACE INFILTRATION BED, GRASS AREAS OR ON AREAS THAT DRAIN TO BEDS	AT LEAST TWICE EACH YEAR AND AFTER STORM EVENTS EXCEEDING 1 INCH OF RAINFALL AFTER STORM EVENTS EXCEEDING 1 INCH OF	Yes		1.11	0.853	3			
Underground Basin	Manchester Township	Willis Run	39.984602	-76.736069	2014	Yes, but not available	1. Inspect all water quality inlets at least once every 30 days for the first year after the York County Conservation District certifies that the site has achieved permaner stabilization. 2. Create, maintain, and make available upon request written inspection reports or all water quality inspections. Those reports shall record dates and depths of all rail events of 0.5 inches or greater, depths of grit and sediment captured in each inlet, and description of floatable debris and oils on the surface of the captured water. 3. After the first year mentioned in 1, inspect all water qualities inlets at least once every six months or more often, if the manufacturer recommends based upon the inspection reports. 4. Have all accumulated grit sediment, floatable debris and oils removed from each quality inlet: whenever a spill or other incident causes a larger than normal accumulation of pollutants in the inlet; at least every six months; whenever sediment accumulates to within 6 inches of the snout bottom; or whenever floatable debris and oil clogs form a layer greater than 3 inches thick. 5. Have pollutants removed from water quality inlets using a vacuum truck. 6. Obtain, maintain, and make available upon request documentation that pollutar removed from water quality inlets are handled and disposed of in accordance with all requirements of all applicable local, state, and federal laws, regulations, and policies. 7. Inspect and have maintained the snout hoods at least once every year: inspect anti-siphon vent and access hatch; check to assure the hood is neither cracked nor broken; check to assure than the gasket forms a water tight seal between the hood and ink wall; and continue inspection reporting pursuant to 1 and 2. (from Design Plans, Sheet # C-4)	nt f n n n n n n n n n n n n n n n n n n	Yes		0.29	0.00	5			
Rain Garden	Manchester Township	Willis Run	39.984952	76.735589	2014	Yes, but not available	1. While vegetation is being established, pruning and weeding may be required. 2. Detritus (waste or debris) shall be removed on an as needed basis. 3. Topsoil (8" min) shall be placed as shown. Seed per permanent seeding specifications to fully vegetate the rain garden. Maintain full vegetative cover at all times. 4. Inspect tow times per year for sediment buildup, erosion, vegetative conditions, etc. 5. During periods of extended drought, watering may be required. 6. Inspect vegetation to evaluate health twice a year. 7. Dead or drying shrubs must be replaced immediately. Inspect shrubs twice pe year to evaluate health. 8. Inspect stone trench for signs of sediment buildup. If top layer of stone becomes clogged with sediment, remove stone and geotextile layer. Replace geotextile. Clean stone and replace. The owner of the property shall be responsible for ensuring the appropriate rain garden is installed per the approve plan. The municipal engineer or his designee may inspect the facility during construction. The owner of said lot will be responsible for all routine maintenan of the facility.	er er	Yes		0.12	0.03	,			

		Location			Ins	stallation		0&M			Drainage	Area (acres)		E	MP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection BMP Date Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
March Street Control	- A						Activities									
Monaghan Township - Vicki Aycock @ Pennon		Yellow Breeches Creek	40.138414	-76.985950	2012	PAG 2002107029	See recorded plan set.	Soo recorded plan set	Yes	Owner - Christ	0.29	0.06	5,000.00	N/A	N/A	N/A
Porous Pavement	Monaghan Twp							See recorded plan set.		Lutheran Church Owner - Christ						
Detention/Infiltration	Monaghan Twp	Yellow Breeches Creek	40.138414	-76.985950	2012	PAG 2002107029	See recorded plan set.	See recorded plan set.	Yes	Lutheran Church	0.58	0.22	8,214.00	N/A	N/A	N/A
Detention Basin	Monaghan Twp	Yellow Breeches Creek	40.138414	-76.985950	2012	PAG 2002107029	See recorded plan set.	See recorded plan set.	Yes	Owner - Christ Lutheran Church	0.13	0.08	128.00	N/A	N/A	N/A
Rain Garden/Bioretention & Infiltration Bed	Monaghan Twp	Yellow Breeches Creek	40.152461	-76.991475	2012	PAG02006714044 (?)	See recorded plan set.	See recorded plan set.	Yes	Messiah College	0.32	0.20	3,180.00	N/A	N/A	N/A
Stone Trench & Infiltration Bed	Monaghan Twp	Yellow Breeches Creek	40.152461	-76.991475	2012	PAG02006714044 (?)	See recorded plan set.	See recorded plan set.	Yes	Messiah College	0.30	0.08	2,445.00	N/A	N/A	N/A
Rain Garden/Bioretention & Infiltration Bed	Monaghan Twp	Yellow Breeches Creek	40.152461	-76.991475	2012	PAG02006714044 (?)	See recorded plan set.	See recorded plan set.	Yes	Messiah College	0.26	0.15	2,400.00	N/A	N/A	N/A
Rain Garden/Bioretention & Infiltration Bed	Monaghan Twp	Yellow Breeches Creek	40.152461	-76.991475	2012	PAG02006714044 (?)	See recorded plan set.	See recorded plan set.	Yes	Messiah College	0.01	0.15	2,400.00	N/A	N/A	N/A
Vegetated Swale	Monaghan Twp	Yellow Breeches Creek	40.152461	-76.991475	2012	PAG02006714044 (?)	See recorded plan set.	See recorded plan set.	Yes	Messiah College	0.21	0.57	500.00	N/A	N/A	N/A
Infiltration Trench	Monaghan Twp Monaghan Twp	Yellow Breeches Creek Yellow Breeches Creek	40.152761 40.152761	-76.986650 -76.986650	2014 2014	PAG02006714044 PAG02006714044	See recorded plan set. See recorded plan set.	See recorded plan set. See recorded plan set.	Yes Yes	Messiah College Messiah College	2.42 0.24	2.37 0.21	24,635.00 10,350.00	N/A N/A	N/A N/A	29,562 5,175
Mount Wolf Borough- Christopher T, Owens (renow bi eeches creek	40.132701	-70.980030	2014	FAG02000714044	See recorded plan sec.	see recorded plair sec.	ies	Wessian College	0.24	0.21	10,530.00	N/A	NA	3,173
Stream Restoration	Mt. Wolf Boro	Hartman Run	40.063366	76.709491	2012	NA	Perimeter mowing	as necessary	Yes	Georgia-Pacific, LLC	0.65	0	3000	235	12.5	
Wet Pond	Mt. Wolf Boro	Hartman Run	40.068091	76.704662	2011	PAG 20066711026	visual inspection	annually	Yes	Mt. Wolf Borough	0.35	0.05	12000			
Newberry Township - Vicki Aycock @ Pennoni								,								
Infiltration Basin	Newberry Twp	Conewago Creek	40.133706	-76.803644	Aug-16	N/A	See recorded plan set.	See recorded plan set.	Yes	Rutter Properties,	0.82	0.92	3,075	N/A	N/A	
Penn Township - Eric Bortner, P.E. (717) 476-	7111									LP						
6.7.3 / Soil Amendment	Penn Twp.	Plum Creek	39.772531	-76.987381	October 25, 2016	PAG-02-0067-16-024	Inspected by Landowner	Annually >=10 yr Storm	Yes	St. Joseph Church Class Room Addition	0.636	1.206	7,679			
6.4.8 / Vegetated Swale 6.7.3 / Soil Amendment	Penn Twp.	Plum Creek	39.771611	-76.988731	October 25, 2016	PAG-02-0067-16-024	Inspected by Landowner	Annually >=10 yr Storm	Yes	St. Joseph Church Class Room Addition	0.189	0.272	3,240			
6.6.4 / Water Quality Filter 6.6.3 / Dry Extended Detention Basin 6.7.1 / Riparian Buffer Restoration	Penn Twp.	Oil Creek	39.827880	-76.957961	September 17, 2015	PAG-02-0067-11-052R	Inspected by Landowner	Annually >=10 yr Storm	Yes	Yazoo Mills Inc.	1.5193	1.2673	3,514			
6.6.3 / Dry Extended Detention Basin 6.7.1 / Riparian Buffer Restoration	Penn Twp.	Oil Creek	39.828336	-76.957922	September 17, 2015	PAG-02-0067-11-052R	Inspected by Landowner	Annually >=10 yr Storm	Yes	Yazoo Mills Inc.	0.6801	5.4453	22,527			
6.7.1 Riperian Buffer Restoration	Penn Twp.	Oil Creek	39.828039	-76.958439	September 17, 2015	PAG-02-0067-11-052R	Inspected by Landowner	Annually >=10 yr Storm	Yes	Yazoo Mills Inc.		0.5854	80,756		168' x 480'	
5.9.1 / Street Sweeping	Penn Twp.	Plum Creek			varies	PAG-02-0067-03-021R-2	Ву НОА	Twice Annually	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North	3.4					
6.4.4 / Infiltration Trench	Penn Twp.	Plum Creek	39.772117	-76.972917	October 25, 2016	PAG-02-0067-03-021R-2	Inspected by HOA	Annually >=10 yr Storm	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North		0.4	2,050			1,845
6.4.6 / Dry Well/Seepage Pit	Penn Twp.	Plum Creek			varies	PAG-02-0067-03-021R-2	Inspected by Landowner	Annually >=10 yr Storm	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North	1.2		20,329			
6.4.7 / Constructed Filter	Penn Twp.	Plum Creek	39.771314	-76.975958	October 25, 2016	PAG-02-0067-03-021R-2	Inspected by Landowner	Annually >=10 yr Storm	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North	3.4	27	3,601			
6.7.2 / Landscape Restoration	Penn Twp.	Plum Creek			varies	PAG-02-0067-03-021R-2	Inspected by Landowner	Annually >=10 yr Storm	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North		0.9	90,470			
6.7.2 / Landscape Restoration	Penn Twp.	Plum Creek			varies	PAG-02-0067-03-021R-2	Inspected by Landowner	Annually >=10 yr Storm	Yes	High Pointe, LLC. High Pointe at Rojen Farms - North		0.4	40,209			
6.4.4 / Infiltration Trench	Penn Twp.	Oil Creek	39.797525	-76.957519	October 25, 2016	PAG-02-0067-06-014R	Inspected by Landowner	Annually >=10 yr Storm	Yes	Pinebrook Villas, LLC Phase II	0.096		1,350			1,620
6.4.5 / Rain Garden/Bioretention	Penn Twp.	Oil Creek	39.797753	-76.957711	October 25, 2016	PAG-02-0067-06-014R	Inspected by Landowner	Annually >=10 yr Storm	Yes	Pinebrook Villas, LLC Phase II	0.31		10,053			
6.4.2 / Infiltration Basin 6.4.8 / Vegetated Swale	Penn Twp. Penn Twp.	Oil Creek Oil Creek	39.823461 39.822361	-76.955706 -76.955106	May 25, 2016 May 25, 2016	PAG-02-0067-15-018 PAG-02-0067-15-018	Inspected by Landowner Inspected by Landowner	Annually >=10 yr Storm Annually >=10 yr Storm	Yes Yes	Apio, Inc. Apio, Inc.	5.917	4.836	26,438 3,680			
6.7.3 / Soil Amendment 6.4.5 / Rain Garden/Bioretention	Penn Twp. Penn Twp.	Oil Creek Oil Creek	39.822361 39.826161	-76.955106 -76.958017	May 25, 2016 August 12, 2016	PAG-02-0067-15-018 PAG-02-0067-15-072	Inspected by Landowner Inspected by Landowner	Annually >=10 yr Storm Annually >=10 yr Storm	Yes Yes	Apio, Inc. D & R Bean, LLC	0.9	0.3	116,479 8,036			
6.4.8 / Vegetated Swale	Penn Twp.	Oil Creek	39.825161	-76.958017 -76.963981	January 8, 2016	PAG-02-0067-15-072 PAG-02-0067-14-039	Inspected by Landowner	Annually >=10 yr Storm Annually >=10 yr Storm	Yes	Legacy 92, LLC	1.6	0.8	2,870			574
6.4.4 / Infiltration Trench+A48 5.8.2 / Pavement Disconnect	Penn Twp.	Oil Creek	23.023322	. 3.303301	January 8, 2016	PAG-02-0007-14-039	Inspected by Landowner	Annually >=10 yr Storm	Yes	Legacy 92, LLC	0.5	5.5	2,0.0			
5.9.1 / Street Sweeping	Penn Twp.	Oil Creek			varies	PAG-02-0067-14-039	By Landowner	Twice Annually	Yes	Legacy 92, LLC	1.0					
6.4.2 / Infiltration Basin	Penn Twp.	Oil Creek	39.781119	-76.955403	October 25, 2016	PAG-02-0067-14-059	Inspected by HOA	Annually >=10 yr Storm	Yes	J.A. Myers Homes, LLC Mustang Heights J.A. Myers Homes,	1.4228	4.4982	2,747			
6.4.3 / Infiltration Bed	Penn Twp.	Oil Creek			varies	PAG-02-0067-14-059	Inspected by Landowner	Annually >=10 yr Storm	Yes	LLC Mustang Heights J.A. Myers Homes,	0.9052		17,544			
6.4.5 / Rain Garden/Bioretention	Penn Twp.	Oil Creek			varies	PAG-02-0067-14-059	Inspected by Landowner	Annually >=10 yr Storm	Yes	LLC Mustang Heights J.A. Myers Homes,	0.0545		483			
6.7.2 / Landscape Restoration	Penn Twp.	Oil Creek			<u> </u>	PAG-02-0067-14-059	Inspected by Landowner	Annually >=10 yr Storm		LLC Mustang Heights			<u> </u>			
6.6.4 Water Quality Filter 1 6.4.8 / Vegetated Channel 1 6.4.2 / Infiltration Basin 1 6.7.3 / Soil Amendment	Penn Twp.	Oil Creek	39.813081	-76.947617	October 25, 2016	PAG-02-0067-15-045	Inspected by Landowner	Annually >=10 yr Storm	Yes	Hanover Brands, Inc. Wastwewater Treatment Plant Hanover Brands	0.409	0.481	7,601			849
6.4.8 / Vegetated Channels 2&3 6.6.4 / Water Quality Filters 2&3 6.7.3 / Soil Amendment	Penn Twp.	Oil Creek	39.811983	-76.946864	October 25, 2016	PAG-02-0067-15-045	Inspected by Landowner	Annually >=10 yr Storm	Yes	Hanover Brands, Inc. Wastwewater Treatment Plant Hanover Brands,	0.115	0.282				
6.4.2 / Infiltration Basin 1 6.7.3 / Soil Amendment	Penn Twp.	Oil Creek	39.813483	-76.947400	October 25, 2016	PAG-02-0067-15-045	Inspected by Landowner	Annually >=10 yr Storm	Yes	Inc. Wastwewater Treatment Plant	0.047	1.095				

		Location			Inc	stallation		O&M			Drainage	Area (acres)		Α	MP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #	Activities	Frequency	Last inspection BMP Date Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
Penn Township - continued																
6.4.2 / Infiltration Trench 1 6.7.3 / Soil Amendment	Penn Twp.	Oil Creek	39.811461	-76.949244	October 25, 2016	PAG-02-0067-15-045	Inspected by Landowner	Annually >=10 yr Storm	Yes	Hanover Brands, Inc. Wastwewater Treatment Plant	0.276	0.0271	1,500			203
6.7.3 / Soil Amendment	Penn Twp.	Oil Creek			October 25, 2016	PAG-02-0067-15-045	Inspected by Landowner	Annually >=10 yr Storm	Yes	Hanover Brands, Inc. Wastwewater Treatment Plant		0.482	123,928			
6.4.2 / Infiltration Basin 1	Penn Twp.	Oil Creek	39.796822	-76.964381	August 14, 2013	PAG-02-0067-05-085R-1	Inspected by HOA	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	6.165	9.205	10,817			
6.4.3 / Infiltration Bed 3B	Penn Twp.	Oil Creek	39.796978	-76.965936	August 14, 2015	PAG-02-0067-05-085R-1	Inspected by HOA	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	0.5					1,207
6.4.3 / Infiltration Bed 4	Penn Twp.	Oil Creek	39.796264	-76.965181	August 14, 2015	PAG-02-0067-05-085R-1	Inspected by HOA	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	0.5					3,262
6.4.4 / Infiltration Trench 1	Penn Twp.	Oil Creek	39.798381	-76.966358	October 16, 2015	PAG-02-0067-05-085R-1	Inspected by HOA	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	0.0983	0.1759				544
6.4.4 / Infiltration Trench 2	Penn Twp.	Oil Creek	39.797769	-76.965189	October 16, 2015	PAG-02-0067-05-085R-1	Inspected by HOA	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	0.1627	0.5112				2,448
6.4.6 / Dry Well/Seepage Pit	Penn Twp.	Oil Creek			varies	PAG-02-0067-05-085R-1	Inspected by Landowner	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2	0.2638					2,522
6.7.2 / Landscape Restoration	Penn Twp.	Oil Creek			varies	PAG-02-0067-05-085R-1	Inspected by Landowner	Annually >=10 yr Storm	Yes	Stone Ridge Development Brookside Heights Phase 1&2			26,265			
PennDOT York Co Rich Heineman (BOMO-S Dry Detention Basin	YORK TOWNSHIP	Mill Creek	39.958937	-76.661841	2016	PAG-02-0067-12-002					7.59	6.69	6750	N/A	N/A	N/A
Infiltration Basin	SPRINGFIELD TOWNSHIP	UNT to East Branch Codorus Creek	39.868519	-76.698797	2012	PAG02006710034				ļ <u> </u>	3.7	20.8	2760	N/A	N/A	N/A
Infiltration Basin	WINDSOR TOWNSHIP	UNT to Kreutz Creek	39.956025	-76.65496	2016	PAG-02-0067-12-002			 		0.7	3.91	1725	N/A	N/A	N/A
Infiltration Basin	YORK TOWNSHIP	Strom Sewer>Other Basin> Storm Sewer> Mill Creek	39.957599	-76.659534	2016	PAG-02-0067-12-002					2.99	6.08	13300	N/A	N/A	N/A
Bioretention Bioretention	SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to East Branch Codorus Creek UNT to East Branch Codorus Creek	39.867538 39.867743	-76.698369 -76.699463	2012 2012	PAG02006710034 PAG02006710034					1.03 0.17	3.13 1.13	1550 2210	N/A N/A	N/A N/A	N/A N/A
Dry Detention Basin Dry Detention Basin	NEWBERRY TOWNSHIP NEWBERRY TOWNSHIP	UNT to Fishing Creek	40.145293 40.147969	-76.8150319 -76.8163016	2001 2001	N/A N/A					TBD TBD	TBD TBD	TBD TBD	N/A N/A	N/A N/A	N/A N/A
Dry Detention Basin	WEST MANCHESTER TOWNSHIP	Fishing Creek UNT to Codorus Creek	39.929564	-76.8163016	2001	N/A N/A					TBD	TBD	TBD	N/A	N/A N/A	N/A N/A
Dry Detention Basin Dry Detention Basin	WEST MANCHESTER TOWNSHIP YORK TOWNSHIP	UNT to Codorus Creek UNT to Codorus Creek	39.928397 39.919836	-76.8222569 -76.7054054	2001 2005	N/A N/A				-	TBD TBD	TBD TBD	TBD TBD	N/A N/A	N/A N/A	N/A N/A
Dry Detention Basin	YORK TOWNSHIP	UNT to Codorus Creek	39.910802	-76.702377	2005	N/A					TBD	TBD	TBD	N/A	N/A	N/A
Wet Detention Basin Wet Detention Basin	YORK TOWNSHIP YORK TOWNSHIP	UNT to Codorus Creek UNT to Codorus Creek	39.917872 39.919218	-76.7032151 -76.7017031	2005 2005	N/A N/A					TBD TBD	TBD TBD	TBD TBD	N/A N/A	N/A N/A	N/A N/A
Infiltration Berm	CARROLL TOWNSHIP	UNT to Dogwood Run	40.132584	-77.039403	2015	PAG02-0067-10-009R					0.44	0.25	5300	N/A	N/A	N/A
Infiltration Berm Infiltration Trench	CARROLL TOWNSHIP FAIRVIEW TOWNSHIP	UNT to Dogwood Run UNT to Fishing Creek	40.132767 40.171878	-77.039343 -76.827237	2015 2010	PAG02-0067-10-009R PAG02006707074					0.16 0.19	0.19 1.08	3000 1320	N/A N/A	N/A N/A	N/A 165/8/5
Infiltration Trench Infiltration Trench	FAIRVIEW TOWNSHIP MANCHESTER TOWNSHIP	UNT to Fishing Creek UNT to Willis Run	40.172945 39.982379	-76.826652 -76.764543	2010 2007	PAG02006707074 PAG02006704124					0.15 0.15	4.99 1.19	400 395	N/A N/A	N/A N/A	50/8/5
Infiltration Trench	SPRINGETTSBURY TOWNSHIP	UNI to Willis Run UNT to Condorus Creek	40.012075	-76.764543 -76.691297	2007	PAG02006704124 PAG02006704075					0.15	0.83	395 424	N/A N/A	N/A N/A	200/25/2 106/4/8
Infiltration Trench Infiltration Trench	SPRINGETTSBURY TOWNSHIP SPRINGETTSBURY TOWNSHIP	UNT to Condorus Creek UNT to Condorus Creek	40.0124 40.012472	-76.691758 -76.691804	2006 2006	PAG02006704075 PAG02006704075					0.21 3.7	0.49 30.8	240 660	N/A N/A	N/A N/A	60/4/8 165/4/8
Infiltration Trench	WEST MANCHESTER TOWNSHIP	Willis Run	39.982435	-76.765288	2007	PAG02006704124					0.21	0.92	948	N/A	N/A	140/12/2
Infiltration Trench Infiltration Trench	SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to East Branch Codorus Creek UNT to East Branch Codorus Creek	39.866512 39.866677	-76.695562 -76.696722	2012 2012	PAG02006710034 PAG02006710034				<u> </u>	0.25 0.86	5.1 3.63	830 984	N/A N/A	N/A N/A	154/4/2 246/4/2
Infiltration Trench Infiltration Trench	NORTH CODORUS TOWNSHIP	Trib 08209 To Codorus Creek	39.866104	-76.865963	2013	PAG02006711056	·				0.64	6.22 0.1	1260 415	N/A N/A	N/A N/A	210/6/1.5 155/2.67/2.67
Infiltration Trench	AUBK LUIVIVIERID	LINT to Mill Creek	30 057022	-76 650211		PAG-02-0067-12 002					U. +	0.1	225	N/A	N/A N/A	85/2.67/2.67
Vegetated Swale w/ Check Dams	YORK TOWNSHIP YORK TOWNSHIP	UNT to Mill Creek UNT to Mill Creek	39.957923 39.958307	-76.659311 -76.659507	2016 2016	PAG-02-0067-12-002 PAG-02-0067-12-002					1.25					
		UNT to Mill Creek UNT to East Branch Codorus Creek	39.958307 39.865632	-76.659507 -76.699883	2016 2012	PAG-02-0067-12-002 PAG02006710034					0.32	1.78	440	N/A N/A	N/A N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale w/ Check Dams	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek	39.958307 39.865632 39.866086 39.867007	-76.659507 -76.699883 -76.695874 -76.697806	2016 2012 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034					0.32 0.17 1.01	1.78 1.64 4.58	440 600 600	N/A N/A	N/A N/A	N/A N/A N/A
Vegetated Swale w/ Check Dams	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek UNT to East Branch Codorus Creek	39.958307 39.865632 39.866086	-76.659507 -76.699883 -76.695874	2016 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710034					0.32 0.17	1.78 1.64	440 600	N/A	N/A	N/A N/A
Vegetated Swale w/ Check Dams	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek	39.958307 39.865632 39.866086 39.867007 39.867993 39.929616 39.929802	-76.659507 -76.699883 -76.695874 -76.697806 -76.698008 -76.786465 -76.786072	2016 2012 2012 2012 2012 2012 2015 2015	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006713059 PAG02006713059					0.32 0.17 1.01 0.7 0.14 0.25	1.78 1.64 4.58 1.87 0.36 1.92	440 600 600 250 490 500	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Vegetated Swale w/ Check Dams Vegetated Swale Vegetated Swale Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILLE BOROUGH SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek UNT to East Branch Codorus Creek UNT to East Branch Codorus Creek	39,958307 39,865632 39,866086 39,867007 39,867093 39,929616 39,929802 39,864245 39,865056	-76.659507 -76.699883 -76.695874 -76.697806 -76.697806 -76.786465 -76.786072 -76.697273 -76.697269	2016 2012 2012 2012 2012 2015 2015 2015 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006713039 PAG02006713059 PAG02006713059 PAG02006710034					0.32 0.17 1.01 0.7 0.14 0.25 0	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6	440 600 600 250 490 500 970 415	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A
Vegetated Swale w/ Check Dams Vegetated Swale Vegetated Swale Vegetated Swale Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILLE BOROUGH SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek	39.958307 39.865632 39.866086 39.867007 39.867993 39.929616 39.929802 39.864245	-76.659507 -76.699883 -76.695874 -76.697806 -76.698008 -76.786465 -76.786072 -76.697273	2016 2012 2012 2012 2012 2015 2015 2015 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039 PAG02006713059 PAG02006710034 PAG02006710034 PAG02006710034					0.32 0.17 1.01 0.7 0.14 0.25 0 0	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85	440 600 600 250 490 500 970 415 990	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP UGANVILLE BOROUGH SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek	39,958307 39,865632 39,866086 39,867007 39,867993 39,929616 39,929802 39,864245 39,865056 39,86721 39,86723 39,86723 39,867287	-76.659507 -76.699883 -76.699884 -76.699806 -76.699008 -76.786465 -76.786072 -76.697273 -76.697279 -76.700046 -76.76984 -76.699067	2016 2012 2012 2012 2012 2015 2015 2015 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039 PAG02006713059 PAG02006713059 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35	440 600 600 250 490 500 970 415 990 195 210	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Vegetated Swale Vegetated Swale Vegetated Swale Vegetated Swale Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILE BOROUGH SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek	39.958307 39.865632 39.866086 39.867007 39.867993 39.929616 39.929802 39.864245 39.865056 39.86721 39.867287	-76.659507 -76.699883 -76.699884 -76.699808 -76.698008 -76.698008 -76.786465 -76.786072 -76.697269 -76.70046 -76.6984	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG02006710034					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35	440 600 600 250 490 500 970 415 990 195	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILLE BOROUGH SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek	39,958307 39,865632 39,866086 39,867007 39,867993 39,929616 39,929802 39,867245 39,86721 39,86721 39,867552 39,867552 39,86758 39,86758	-76.659507 -76.699883 -76.699883 -76.699884 -76.697806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697279 -76.698067 -76.698067 -76.698067 -76.6980697 -76.784014	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039 PAG02006713059 PAG02006713059 PAG02006710034					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 0.23	440 600 600 250 490 970 415 990 195 210 185 155 370	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek	39,958307 39,865632 39,866086 39,867007 39,867993 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,867552 39,867552 39,867583 39,929467 39,929467	-76.659507 -76.699883 -76.699887 -76.699806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697269 -76.700046 -76.6984 -76.698697 -76.699697 -76.784014 -76.784487	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG-02-0067-10-002 PAG-02-0067-10-034 PAG-02-0067-10-039					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.37 0.32 0.23 2.36 0.3 0.16	440 600 250 490 500 970 415 990 195 210 185 185 370 415	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILLE BOROUGH SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek	39.958307 39.865632 39.866086 39.867007 39.867993 39.929616 39.929802 39.864245 39.865056 39.86721 39.867287 39.86752 39.86752 39.86758 39.86758 39.86758	-76.659507 -76.699883 -76.699883 -76.699808 -76.698008 -76.786465 -76.786072 -76.697209 -76.700046 -76.698067 -76.698067 -76.6998067 -76.698697 -76.698697 -76.784014 -76.784827	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 0.23 2.36	440 660 600 250 490 500 970 415 990 195 210 185 155 370 415	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Cotorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek UNT to Canadochly Creek	39,958307 39,865632 39,866086 39,867007 39,867993 39,929616 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,86758 39,86758 39,929467 39,929664 39,981394 39,985339	-76.659507 -76.699883 -76.699887 -76.699806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697273 -76.697269 -76.790046 -76.698067 -76.6984 -76.698067 -76.698697 -76.784014 -76.784487 -76.538249 -76.538249 -76.538777 -76.538932	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG-02-0067-12-002 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710029 PAG02006710029					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 2.36 0.3 0.16 TBD TBD	440 600 250 490 500 970 415 990 195 210 185 370 415 180 TBD TBD	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Swale Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP UOGANVILE BOROUGH SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP LOWER WINDSOR TOWNSHIP LOWER WINDSOR TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Canadochly Creek UNT to Canadochly Creek	39.958307 39.865032 39.866086 39.867007 39.867993 39.929616 39.929802 39.864245 39.867287 39.867287 39.867523 39.867523 39.86758 39.929346 39.929346 39.929467 39.929664 39.981994 39.985339	-76.659507 -76.699883 -76.695874 -76.697806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697273 -76.697269 -76.786072 -76.699262 -76.699367 -76.784014 -76.784027 -76.784027 -76.784037 -76.784037 -76.784037 -76.784037 -76.784037 -76.784037 -76.784037 -76.784037 -76.784037	2016 2012 2012 2012 2012 2015 2015 2015 2016 2012 2012 2012 2012 2012 2012 2012	PAG-02-0067-12-002 PAG-02-0067-10-002 PAG-02-0067-10-034 PAG-02-0067-10-039 PAG-02-0067-10-039 PAG-02-0067-10-02-09					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.37 0.32 0.23 2.36 0.3 0.16 TBD	440 660 600 250 490 500 970 415 990 195 210 185 155 370 415 180 TBD	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Segetated Swale Vegetated Swale Vegetated Swale Segetated Swale Sioretention Bioretention Bioretention Bioretention Bioretention	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek	39,958307 39,865632 39,866086 39,867007 39,867097 39,929616 39,929616 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,86758 39,86758 39,86758 39,929346 39,929346 39,929346 39,985339 39,985546 39,985546 39,9895542	-76.659507 -76.699883 -76.699887 -76.699806 -76.698008 -76.786465 -76.786072 -76.697269 -76.780074 -76.699262 -76.698067 -76.69844 -76.698697 -76.784014 -76.784827 -76.784827 -76.538249 -76.538737 -76.5387932 -76.5379317 -76.5379314 -76.5379344	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD TBD TBD TBD TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.37 0.32 0.23 0.23 0.36 0.3 0.16 TBD TBD TBD TBD TBD	440 600 250 250 970 415 990 195 210 185 370 415 180 TBD TBD TBD TBD TBD TBD	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Swale Vegetated Swale	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANVILE BORDOUGH SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Conadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Codorus Codorus Codorus Codorus Codorus Codorus Codorus Codorus Codorus Creek Conadochly Creek Conadochly Creek Conadochly Creek Codorus Codorus Codorus Codorus Codorus Codorus Codorus Creek Dogwood Run	39,958307 39,865632 39,866086 39,867007 39,867993 39,929812 39,864245 39,865056 39,86721 39,867287 39,867287 39,86752 39,86752 39,86758 39,929346 39,929467 39,981994 39,981994 39,985339 39,985546 39,989548	-76.659507 -76.699883 -76.699806 -76.699806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697269 -76.786072 -76.699262 -76.699262 -76.69984 -76.788427 -76.788427 -76.788427 -76.788427 -76.78393249 -76.538777 -76.538777	2016 2012 2012 2012 2012 2015 2015 2015 2016 2012 2012 2012 2012 2012 2012 2012	PAG-02-0067-12-002 PAG-02-0067-10-002 PAG-02-0067-10-034 PAG-02-0067-10-039					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.37 0.37 0.32 0.23 2.36 0.3 0.16 TBD TBD TBD TBD TBD	440 660 600 250 490 500 970 415 990 195 210 185 155 370 415 180 TBD TBD TBD	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Segetated Swale Vegetated Swale Vegetated Swale Segetated	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP CARROLL TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek UNT to Cast Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek 39,958307 39,865632 39,866086 39,867007 39,867993 39,929616 39,929616 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,86758 39,86758 39,929467 39,929467 39,929467 39,981994 39,985546 39,985546 39,989582 40,133734 39,990503 39,990503	-76.659507 -76.699883 -76.699887 -76.699806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697273 -76.697273 -76.699262 -76.786072 -76.698667 -76.698667 -76.698697 -76.784014 -76.784827 -76.784827 -76.538249 -76.538249 -76.538249 -76.538252 -77.76.537917 -76.537834 -76.537834 -76.537834 -76.537834 -76.537834 -76.537834 -76.537834 -76.537834 -76.538832 -76.537917 -76.537834 -76.537834 -76.537834 -76.537834 -76.537834	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006713059 PAG02006713059 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.37 0.32 0.23 0.23 2.36 0.3 0.16 TBD	440 600 250 250 970 415 990 195 210 185 185 180 TBD	N/A	N/A	N/A	
Vegetated Swale w/ Check Dams Vegetated Swale Swale Vegetated Swale Vegetated Swale Swale Vegetated Swale Sicretation Bioretention W Underdrain	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOGANULE BOROUGH SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP CARROLL TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek UNT to Canadochly Creek Conadochly Creek	39,958307 39,865632 39,866086 39,867007 39,867097 39,929616 39,929802 39,864245 39,865056 39,86721 39,867287 39,867838 39,929346 39,98194 39,98194 39,985339 39,985346 39,985349	-76.659507 -76.699883 -76.699884 -76.699806 -76.698008 -76.786465 -76.786072 -76.697273 -76.697269 -76.786072 -76.699262 -76.699262 -76.699697 -76.784014 -76.784827 -76.784487 -76.538249 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.538777 -76.5387917 -76.538777 -76.538932 -77.5385255 -77.040334 -76.789851	2016 2012 2012 2012 2012 2015 2015 2015 2016 2012 2012 2012 2012 2012 2012 2012	PAG-02-0067-12-002 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710029					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 0.23 2.36 0.3 0.16 TBD	440 600 250 490 500 970 415 990 195 210 185 155 370 415 180 TBD	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Swale Vegetated Swale Vegetated Swale Vegetated Swale Swale Vegetated Swale Sioretention	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP WEST MANCHESTER TOWNSHIP MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP MANCHESTER TOWNSHIP MENCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek UNT to Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek UNT to Trib 08420 To Little Conewago Creek	39,958307 39,865632 39,866086 39,867007 39,867993 39,929616 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,867552 39,86758 39,929467 39,929467 39,929467 39,929564 39,981934 39,985339 39,985546 39,989483 39,989582 40,133734 39,990503 39,990503 39,991933 39,990768 39,990882 39,990882	-76.659507 -76.699883 -76.699887 -76.699808 -76.699808 -76.786465 -76.786072 -76.697273 -76.697273 -76.697273 -76.697279 -76.700046 -76.6984 -76.698697 -76.784014 -76.784827 -76.784827 -76.784014 -76.784827 -76.538249 -76.538777 -76.538249 -76.538777 -76.538932 -76.78407 -76.78487 -76.538932 -76.787917 -76.5377917 -76.537834 -76.7898951 -76.789996 -76.789996	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006713059 PAG02006713059 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710029 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006715005 PAG02006715005 PAG02006715005 PAG02006715005					0.32 0.17 1.01 0.7 0.14 0.25 0 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD TBD TBD TBD TBD TBD TBD 0.1 0.23 0.91 0.08 0.06 0.05	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 0.23 0.23 0.36 0.3 0.16 TBD	440 600 600 250 970 4190 990 195 210 185 185 185 180 TBD	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Vegetated Swale Swale Vegetated Swale Vegetated Swale Vegetated Swale Swale Vegetated Swale Vegetated Swale Swale Sioretention Bioretention	YORK TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP SPRINGFIELD TOWNSHIP WEST MANCHESTER TOWNSHIP WEST MANCHESTER TOWNSHIP LOWER WINDSOR TOWNSHIP WEST MANCHESTER TOWNSHIP	UNT to Mill Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to East Branch Codorus Creek Codorus Creek Codorus Creek Codorus Creek Codorus Creek UNT to Canadochly Creek UNT to Canadochly Creek UNT to Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek Canadochly Creek UNT to Tib 08420 To Little Conewago Creek UNT to Trib 08420 To Little Conewago Creek UNT to Tib 08420 To Little Conewago Creek	39,958307 39,865632 39,866086 39,867007 39,867097 39,867097 39,867067 39,929802 39,864245 39,865056 39,86721 39,867287 39,867287 39,867582 39,867583 39,929467 39,929664 39,939339 39,929664 39,981394 39,985349 39,985349 39,985349 39,985349 39,985349 39,985349 39,985349 39,985349 39,985349 39,985349 39,985546 39,989483 39,985349 39,995582 40,133734 39,990503 39,991933 39,991933	-76.659507 -76.699883 -76.699874 -76.699806 -76.698008 -76.786465 -76.786072 -76.697269 -76.786072 -76.697269 -76.786072 -76.697269 -76.788067 -76.6984 -76.6984 -76.784827 -76.784827 -76.784827 -76.538249 -76.538777 -76.537917	2016 2012 2012 2012 2012 2012 2015 2015 2015	PAG-02-0067-12-002 PAG-02-0067-12-002 PAG-02-0067-10034 PAG02006710034 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710029 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006710039 PAG02006715005 PAG02006715005					0.32 0.17 1.01 0.7 1.01 0.14 0.25 0 0 0 0.57 0.22 0.05 0.1 0.16 0.12 0.08 0.19 TBD	1.78 1.64 4.58 1.87 0.36 1.92 0.66 0.6 1.85 0.35 0.37 0.32 2.36 0.3 0.16 TBD	440 600 250 250 970 415 990 195 210 185 370 415 180 TBD	N/A	N/A	N/A

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		Location			ır	nstallation		O&M				Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection	BMP	Responsible person/agency for	Impervious	Pervious	BMP Surface	Stream Restoratio		Trench L/W/D (CF)
(OZI Manaar)	Wunicipality	watershed	Latitude	Longitude	Date	NFDE3 Fellillt #		riequency	Date	Functioning?	inspections	impervious	reivious	Area (SF)	Length (LF)	Width & Length (LF)	Helicii L/W/D (CF)
PennDOT York Co continued							Activities										
Vegetated Swale	MANCHESTER TOWNSHIP	UNT to Trib 08420 To Little Conewago Creek	39.992041	-76.792334	2016	PAG02006715005						0.15	0.08	390	N/A	N/A	N/A
Vegetated Swale Vegetated Swale w/ Check Dams	WEST MANCHESTER TOWNSHIP CARROLL TOWNSHIP	UNT to Trib 08420 To Little Conewago Creek Dogwood Run	39.99219 40.134218	-76.792653 -77.040326	2016 2015	PAG02006715005 PAG020006710009R						0.024 0.15	0.126 0.24	260 440	N/A N/A	N/A N/A	N/A N/A
Vegetated Swale w/ Check Dams	CARROLL TOWNSHIP	Dogwood Run	40.133306	-77.040412	2015	PAG020006710009R						0.3	13.2	2450	N/A	N/A	N/A
Vegetated Swale w/ Check Dams Dry Detention Basin	CARROLL TOWNSHIP LOGANVILLE BOROUGH	Dogwood Run UNT East Branch Codorus Creek	40.133888 39.862381	-77.039612 -76.711105	2015 2009	PAG020006710009R PAG02006704132						0.5 3.23	18.5 27.06	3500 5300	N/A N/A	N/A N/A	N/A N/A
Dry Detention Basin Dry Detention Basin	LOGANVILLE BOROUGH	UNT East Branch Codorus Creek	39.863179	-76.711103	2009	PAG02006704132 PAG02006704132						4.02	18.28	3400	N/A N/A	N/A N/A	N/A N/A
Dry Detention Basin	PENN TOWNSHIP	Oil Creek	39.781436	-76.953156	2008	PAG02006706030						0.31	4.19	760	N/A	N/A	N/A
Dry Detention Basin Dry Detention Basin	PENN TOWNSHIP WINDSOR TOWNSHIP	UNT South Branch Conewago Creek UNT to Kruetz Creek	39.823612 39.95939	-76.997981 -76.639333	2012 2013	PAG02000109009 PAG02006709027						1.72 1.23	0.25 6.52	1500 8000	N/A N/A	N/A N/A	N/A N/A
Bioretention	SPRINGETTSBURY TOWNSHIP	UNT to Mill Creek	39.958747	-76.672269	2012	PAG02006711037						1.44	2.76	1650	N/A	N/A	N/A
Bioretention Infiltration Trench	SPRINGETTSBURY TOWNSHIP SPRINGETTSBURY TOWNSHIP	UNT to Mill Creek UNT to Mill Creek	39.958825 39.95835	-76.665992 -76.670211	2012	PAG02006711037 PAG02006711037						0	1.5 0.38	2200 710	N/A N/A	N/A N/A	N/A 120/10/2.5
Infiltration Trench	SPRINGETTSBURY TOWNSHIP	UNT to Mill Creek	39.958385	-76.669757	2012	PAG02006711037						0	0.33	500	N/A	N/A	80/10/2.5
Infiltration Trench	SPRINGETTSBURY TOWNSHIP SPRINGETTSBURY TOWNSHIP	UNT to Mill Creek UNT to Mill Creek	39.958449 39.958529	-76.669212 -76.668544	2012 2012	PAG02006711037 PAG02006711037						0	0.25	800 1050	N/A N/A	N/A N/A	130/10/2.5 170/10/2.5
Bioretention	WINDSOR TOWNSHIP	UNT to Kruetz Creek	39.960029	-76.640414	2013	PAG02006709027						0.51	1.25	1400	N/A	N/A	N/A
Dry Detention Basin	PENN TOWNSHIP	Oil Creek	39.783076	-76.953216	2008	PAG02006706030						0.53	1.01	70	N/A	N/A	N/A
Spring Grove - Michael Knouse, P.E., ARRO	Consulting, Inc. (717) 975-3995					1		1			I						
001 - Infiltration Basin	Spring Grove Borough	UNT to Codorus Creek	39D53'29.605"N	76D51'55.624" W	2014		Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1 inch of rainfall.	2015	yes	Spring Forge Homeowners Association	1.06	5.12	7273	:		
002 - Vegetated Swale	Spring Grove Borough	UNT to Codorus Creek	39D53'40.389"N	76D51'45.825"W	2014		Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1 inch of rainfall.	r 2015	yes	Spring Forge Homeowners Association	0.50	3.13				
003 - Wet Pond Retention Basin	Spring Grove Borough	UNT to Codorus Creek	39D53'40.095"N	76D51'38.835"W	2014		Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1 inch of rainfall.	r 2015	yes	Spring Forge Homeowners Association	0.75	6.36	9795	,		
004 - Infiltration Basin	Spring Grove Borough	UNT to Codorus Creek	39D53'29.309"N	76D51'29.863"W	2014		Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1 inch of rainfall.	r 2015	yes	Spring Forge Homeowners Association	0.35	3.12	11843	3		
005 - Vegetated Swale	Spring Grove Borough	UNT to Codorus Creek	39D53'24.826"N	76D51'31.431"W	2014		Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1	r 2015	yes	Spring Forge Homeowners	0.35	3.12				
006 - Subsurface Infiltration Bed	Spring Grove Borough	UNT to Codorus Creek	39D52'45.905"N	76D51'47.538"W	2010	PAG2006710025R	Inspect BMPs; remove sediment, trash and other debris.	inch of rainfall. At least twice a year and after storm events exceeding 1	r 2014	yes	Association Denniston Family Partnership, LLC	1.43	1.30	6030			
007 - Infiltration Basin	Spring Grove Borough	Codorus Creek	39D52'29.982"N	76D51'43.240"W	2008	N/A	Inspect BMPs; remove sediment, trash and other debris.	inch of rainfall. At least twice a year and after storm events exceeding 1	r 2016	yes	York County Rail Trail Authority	0.11	0.06	500)		
								inch of rainfall. At least twice a year and after	r		·						
008 - Pervious Pavement Infiltration Bed	Spring Grove Borough	Codorus Creek	39D52'22.976"N	76D51'38.605"W	2015	N/A	Inspect BMPs; remove sediment, trash and other debris; vacum sweep.	storm events exceeding 1 inch of rainfall.	2016	yes	Spring Grove Borough	0.11	0.00	3600)		
009 - Subsurface Storage Facility	Spring Grove Borough	Codorus Creek	39D52'28.242"N	76D51'58.005"W	2015	N/A	Inspect BMPs; remove sediment, trash and other debris.	At least twice a year and after storm events exceeding 1 inch of rainfall.	2016	yes	Mt. Zion Church	0.15	0.00	1330)		
010 - Dry Detention Basin	Spring Grove Borough	Codorus Creek	39D53'17.499"N	76D51'37.026"W		N/A	Inspect BMPs; remove sediment, trash and other debris.	<u></u>	2016	yes	Spring Grove Borough	15.40	84.90	184715	<u> </u>	<u> </u>	
Springettsbury Township - Paul Shaefer, Fire			20.004=	70.00000	0/6/2005	DADAOVE: *	VPP	2//0.14***	11/10/2227	VEC	PON /A TT	20.465	22.770	4427		21/2	21/2
Ext. Detention Pond Ext. Detention Pond #1	Springettsbury Twp Springettsbury Twp	Kreutz Mill	39.984714 39.976403	-76.626400 -76.696167	9/6/2006 11/30/2007	PAR10Y519 PAG2006706036	YES YES	2/YR MIN. 2/YR MIN.	11/19/2006	YES YES	PRIVATE PRIVATE	20.160 1.160	22.770 0.250	1437 422	N/A N/A	N/A N/A	N/A N/A
U.G. Ext. Detention Pond #2	Springettsbury Twp	Mill	39.977344	-76.695353	11/30/2007	PAG2006706036	YES	2/YR MIN.	12/26/2007	YES	PRIVATE	0.390	0.060	380	N/A	N/A	N/A
Infiltration Basin Bio-Retention Basin	Springettsbury Twp Springettsbury Twp	Mill Mill	39.980810 39.981169	-76.666486 -76.665628	8/18/2008 8/18/2008	PAG2006707049 PAG2006707049	YES YES	After every rainfall >1" After every rainfall >1"	11/12/2008 11/12/2008	YES YES	PRIVATE PRIVATE	20.820 6.070	11.810 0.000	8581 5485	N/A N/A	N/A N/A	N/A N/A
Detention Basin	Springettsbury Twp	Mill	39.980524	-76.667044	8/19/2008	PAG2006707049	YES	After every rainfall >1"	11/12/2008	YES	PRIVATE	20.820	11.810	45300	N/A	N/A	N/A
Bio-Retention Basin Infiltration Basin	Springettsbury Twp Springettsbury Twp	Mill Mill	39.975246 39.987372	-76.666066 -76.684381	4/29/2010 5/11/2010	PAG2006709011 PAG2006708050	YES YES	After every rainfall >1" 2/YR MIN.	6/15/2010 5/11/2010	YES YES	PRIVATE PRIVATE	1.400 0.010	4.060 0.190	14032 3877	N/A N/A	N/A N/A	N/A N/A
Infiltration Trench #1	Springettsbury Twp	Mill	39.987414	-76.684069	5/11/2010	PAG2006708050	YES	2/YR MIN.	5/11/2010	YES	PRIVATE	0.400	0.070	2080	N/A	N/A	6240
Infiltration Trench #2 Underground Detention Basin	Springettsbury Twp Springettsbury Twp	Mill Mill	39.987381 39.982722	-76.684372 -76.671333	5/11/2010 5/13/2010	PAG2006708050 PAG2006709003	YES YES	2/YR MIN. 4/YR MIN.	5/11/2010 7/18/2010	YES YES	PRIVATE PRIVATE	0.810 1.670	0.090 2.640	2390 4634	N/A N/A	N/A N/A	7170 N/A
Detention Basin A	Springettsbury Twp	Kreutz	39.981556	-76.651639	7/26/2010	PAG2006703034R-1	YES	2/YR MIN.	9/5/2010	YES	PRIVATE	1.200	1.390	11362	N/A	N/A	N/A
Detention Basin B Detention Basin A	Springettsbury Twp	Kreutz Kreutz	39.979595 39.981303	-76.653473 -76.651569	8/17/2010 7/26/2010	PAG2006703034R-1 PAG2006703034R-1	YES YES	2/YR MIN. 2/YR MIN.	9/17/2010 8/10/2010	YES YES	PRIVATE PRIVATE	1.600 1.200	1.200 1.390	5009 11362	N/A N/A	N/A N/A	N/A N/A
Rain Garden #1	Springettsbury Twp Springettsbury Twp	Kreutz Kreutz	39.980245	-76.652201	7/11/2014	PAG2006703034R-1	YES YES	2/YR MIN.	8/10/2014	YES	PRIVATE	0.990	0.050	816	N/A	N/A	N/A
Rain Garden #2	Springettsbury Twp	Kreutz	39.980812	-76.652047 76.650401	7/12/2014	PAG2006703034R-1	YES	2/YR MIN. 1/MTH MIN.	9/11/2014	YES	PRIVATE	0.180	0.120	937	N/A	N/A	N/A
Underground Detention Basin Rain Garden #1	Springettsbury Twp Springettsbury Twp	Kreutz Kreutz	39.978557 39.978223	-76.659491 -76.659476	4/29/2011 5/11/2011	PAG2006708076 PAG2006708076	YES YES	1/MTH MIN. 1/MTH MIN.	6/16/2011 8/15/2011	YES YES	PRIVATE PRIVATE	1.525 0.510	0.969 0.323	6917 980	N/A N/A	N/A N/A	23537 882
Rain Garden #2	Springettsbury Twp	Kreutz	39.978557	-76.659491	5/11/2011	PAG2006708076	YES	1/MTH MIN.	8/15/2011	YES	PRIVATE	0.510	0.323	500	N/A	N/A	450
Rain Garden #3 Retention Basin #2	Springettsbury Twp Springettsbury Twp	Kreutz Mill	39.978347 39.990200	-76.660419 -76.715421	5/11/2011 10/17/2011	PAG2006708076 PAG2006710003	YES YES	1/MTH MIN. 4/YR MIN.	8/15/2011 11/18/2011	YES YES	PRIVATE PRIVATE	0.510 24.320	0.323 16.770	560 108165	N/A N/A	N/A N/A	504 N/A
Retention Basin #3	Springettsbury Twp	Codorus	39.984197	-76.716931	7/13/2012	PAG2006710003	YES	4/YR MIN.	9/13/2012	YES	PRIVATE	8.430	3.650	47195	N/A	N/A	N/A
Underground Detention Basin Infiltration Basin	Springettsbury Twp Springettsbury Twp	Mill Mill	39.983056 39.980889	-76.671667 -76.694611	2/7/2012 2/9/2012	PAG2006709004 PAG2006710030	YES YES	4/YR MIN. 1/YR MIN.	4/9/2012 4/17/2012	YES YES	PRIVATE PRIVATE	1.560 3.810	2.020 1.880	16435 12142	N/A N/A	N/A N/A	N/A N/A
Underground Detention Basin	Springettsbury Twp	Mill	39.977877	-76.674063	8/24/2012	PAG02006712018	YES	After every rainfall >1"	9/24/2012	YES	PRIVATE	1.000	0.160	2135	N/A	N/A	N/A
Rain Garden Infiltration Basin	Springettsbury Twp	Mill Mill	39.978222 39.978222	-76.674000 -76.677750	12/16/2012 12/13/2012	PAG02006712018 PAG006711057	YES YES	After every rainfall >1" 4/YR MIN.	4/1/2013 4/5/2013	YES YES	PRIVATE PRIVATE	0.160 1.620	0.090 2.390	440 11754	N/A N/A	N/A N/A	N/A N/A
Underground Detention Basin	Springettsbury Twp Springettsbury Twp	Mill	39.987000	-76.672667	8/29/2013	PAG02006712062	YES	2/YR MIN.	9/3/2013	YES	PRIVATE	0.800	0.360	7224	N/A	N/A N/A	N/A
Rain Garden #1	Springettsbury Twp	Mill	39.987194	-76.672722 76.672725	10/10/2013	PAG02006712062	YES	2/YR MIN.	10/30/2013	YES	PRIVATE	0.180	0.060	1062	N/A	N/A	N/A
Rain Garden #2 Rain Garden #3	Springettsbury Twp Springettsbury Twp	Mill Mill	39.987076 39.987222	-76.672325 -76.672278	10/11/2013 10/12/2013	PAG02006712062 PAG02006712062	YES YES	2/YR MIN. 2/YR MIN.	10/30/2013 10/30/2013	YES YES	PRIVATE PRIVATE	0.120 0.046	0.031 0.020	353 308	N/A N/A	N/A N/A	N/A N/A
Rain Garden #4	Springettsbury Twp	Mill	39.987119	-76.672068	10/13/2013	PAG02006712062	YES	2/YR MIN.	10/30/2013	YES	PRIVATE	0.366	0.150	1637	N/A	N/A	N/A
Detention Basin Infiltration Basin	Springettsbury Twp Springettsbury Twp	Codorus Codorus	39.982852 39.983019	-76.722538 -76.722685	10/4/2013 10/4/2013	PAG2006707043R PAG2006707043R	YES YES	After every rainfall >1" After every rainfall >1"	11/15/2013 11/15/2013	YES YES	PRIVATE PRIVATE	0.300 0.300	1.050 1.050	1620 888	N/A N/A	N/A N/A	N/A N/A
Infiltration Trench	Springettsbury Twp	Codorus	39.996986	-76.721280	5/7/2014	PAG2006707043R	YES	After every rainfall >1"	7/3/2014	YES	PRIVATE	2.920	746.200	19779	N/A	N/A	8241
Infiltration Basin #1	Springettsbury Twp	Kreutz	39.986072 39.985933	-76.641208 -76.640314	6/29/2009	PAG2006703022-1	YES YES	2/YR MIN.	8/10/2009	YES	PRIVATE	1.040	0.800	6857 3594	N/A N/A	N/A	N/A N/A
Infiltration Basin #2 Vegetated Swales	Springettsbury Twp Springettsbury Twp	Kreutz Kreutz	39.985933 39.985167	-76.640314 -76.642269	6/29/2009 6/29/2009	PAG2006703022-2 PAG2006703022-3	YES YES	2/YR MIN. 1/YR MIN.	8/10/2009 8/10/2009	YES YES	PRIVATE PRIVATE	0.890 0.380	0.710 2.880	3594 4720	N/A N/A	N/A N/A	N/A N/A
Lower Surface Detention Basin	Springettsbury Twp	Codorus	39.989167	-76.681528	9/1/2015	PAG2006708058	YES	4/YR MIN.	10/5/2015	YES	PRIVATE	0.180	0.470	799	N/A	N/A	N/A
Upper Surface Detention Basin Rain Garden	Springettsbury Twp Springettsbury Twp	Codorus Kreutz	39.989556 39.983681	-76.681500 -76.649356	9/2/2015 9/22/2015	PAG2006708058 PAG02006703034R-2	YES YES	4/YR MIN. 4/YR MIN.	10/5/2015 11/3/2015	YES YES	PRIVATE PRIVATE	0.642 0.780	4.480 0.750	428 427	N/A N/A	N/A N/A	N/A N/A
	Springettsbury Twp	Mill	39.982161	-76.711617	4/16/2016	N/A	YES	2/YR MIN.	4/16/2016	YES	PRIVATE	0.740	0.370	3086	N/A	N/A	N/A
Infiltration Basin																	
Infiltration Basin Subsurface Infiltration Bed Infiltration Basin	Springettsbury Twp Springettsbury Twp	Mill Mill	39.977308 39.976539	-76.668539 -76.675172	7/24/2015 8/11/2010	PAG02006713018 PAG02006709048	YES YES	4/YR MIN. 12/YR MIN.	8/30/2015 11/4/2010	YES YES	PRIVATE PRIVATE	1.372 3.000	0.281 0.730	11895 3591	N/A N/A	N/A N/A	23790 N/A

		Location			li li	nstallation		0&M				Drainage	Area (acres)		В	MP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection Date	BMP Functioning?	Responsible person/agency for inspections	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
							Activities				mspections						
Springettsbury Township - continued Infiltration Trench #1	Springettsbury Twp	Mill	39.976242	-76.675328	8/11/2010	PAG02006709048	YES	12/YR MIN.	11/4/2010	YES	PRIVATE	0.150	0.000	1326	N/A	N/A	1101.6
Infiltration Trench #2 Infiltration Trench #3	Springettsbury Twp Springettsbury Twp	Mill Mill	39.975997 39.975997	-76.675200 -76.675064	8/11/2010 8/11/2010	PAG02006709048 PAG02006709048	YES YES	12/YR MIN. 12/YR MIN.	11/4/2010 11/4/2010	YES	PRIVATE PRIVATE	0.154 0.166	0.000	1424 1534	N/A N/A	N/A N/A	1182.6 1274.1
Infiltration Trench #4	Springettsbury Twp	Mill	39.975875	-76.674950	8/11/2010	PAG02006709048	YES	12/YR MIN.	11/4/2010	YES	PRIVATE	0.213	0.000	1943	N/A	N/A	1605.8
UG Infiltration Basin Rain Garden	Springettsbury Twp Springettsbury Twp	Mill Kreutz	39.973767 39.979796	-76.681819 -76.631964	12/12/2007 6/10/2014	N/A N/A	YES YES	4/YR MIN. 2/YR MIN.	12/12/2007 6/10/2014	YES	PRIVATE PRIVATE	0.380 0.294	0.130 1.700	1062 1633	N/A N/A	N/A N/A	4779 N/A
U.G. Detention Basin	Springettsbury Twp	Mill Mill	39.976691	-76.676691	3/31/2014	N/A N/A	YES	4/YR MIN.	3/31/2014	YES	PRIVATE PRIVATE	1.029	0.279	6018	N/A N/A	N/A N/A	18055 N/A
Detention Swale #3 Infiltration Trench	Springettsbury Twp Springettsbury Twp	Mill	39.976579 39.971447	-76.670476 -76.666593	3/31/2014 9/15/2014	N/A N/A	YES YES	4/YR MIN. 2/YR MIN.	3/31/2014 9/15/2014	YES	PRIVATE	0.259 0.079	0.000	1633 639	N/A N/A	N/A N/A	N/A 1449
Infiltration Trench	Springettsbury Twp Springettsbury Twp	Mill Mill	39.973055 39.973729	-76.688375 -76.672131	10/17/2013 4/20/2015	N/A N/A	YES YES	2/YR MIN. 4/YR MIN.	10/17/2013 4/20/2015	YES YES	PRIVATE PRIVATE	0.090 0.415	0.000	504 4591	N/A N/A	N/A N/A	1008 14922
Infiltration Trench	Springettsbury Twp	Mill	39.926156	-76.668295	8/11/2011	N/A	YES	2/YR MIN.	8/11/2011	YES	PRIVATE	0.517	0.163	2304	N/A	N/A	8064
Infiltration Trench Infiltration Trench	Springettsbury Twp Springettsbury Twp	Mill Mill	39.981453 39.981427	-76.703500 -76.703222	8/30/2012 1/30/2016	N/A N/A	YES YES	4/YR MIN. 4/YR MIN.	8/30/2012 1/30/2016	YES YES	PRIVATE PRIVATE	0.075 0.044	0.155 0.196	152 152	N/A N/A	N/A N/A	489 489
Infiltration Trench West Manchester Township - Zane Williams (7	Springettsbury Twp	Mill	39.981407	-76.702937	1/30/2016	N/A	YES	4/YR MIN.	1/30/2016	YES	PRIVATE	0.044	0.197	152	N/A	N/A	489
BIO - Dairy Queen	West Manchester Twp	Willis Run	39.979816	-76.76066	11/28/2012		See recorded plan set.	twice a year	7/28/2016	yes	OWNER / WMTWP	0.58	0.41	2150			
BIO, BASIN - York Rail	West Manchester Twp	Codorus Creek	39.94731	-76.775847	7/21/2014	PAG 02-0067-12-019	See recorded plan set.	4 times year/annually	2014	yes	OWNER / WMTWP	1.874	4.24	36808			
INFILTRATION BASINS - WYSD Wallace Elem. BIO,BASINS WITH AMENDMENT SOILS - 1600	West Manchester Twp	L. Conewago	39.978717	-76.788944	12/1/2015	PAG 02-0067-13-048	See recorded plan set.	as need / annually/ every 5yrs.		yes	OWNER / WMTWP	1.67	1	10548			
Colony Rd Columbia Gas	West Manchester Twp	Willis Run	39.972889	-76.778864	7/21/2015	PAG 02-0067-13-039	See recorded plan set.	4 times yr./ twice a year		yes	OWNER / WMTWP	5.25	22.86	26677			
SEEPAGE PIT, PERVIOUS PAVEMENT - 581 Manchester Ct. SUBSURFACE INFILTRATION BASINS - WYSD -	West Manchester Twp	Codorus Creek	39.951217	-76.786311	3/31/2015	PAG 02-0067-13-041	See recorded plan set.	twice a year	7/21/2016	yes	OWNER / WMTWP	2.66	1.94	36195			
High School INFILTRATION BASINS - Dollar General	West Manchester Twp West Manchester Twp	Codorus Creek Honey Run	39.959844 39.9281	-76.76983 -76.832667	1/28/2015	PAG 02-0067-14-008 PAG 02-0067-14-033	See recorded plan set. See recorded plan set.	twice a year 4 times year/ twice a year		yes	OWNER / WMTWP WMTWP	6.57 0.47	0.26	25037 4136			
INFILTRATION BASINS - VATA	West Manchester Twp	Codorus Creek	39.944933	-76.832667	16-Sep	PAG 02-0067-14-048	See recorded plan set. See recorded plan set.	quarterly/annually		yes	OWNER/WMTWP	9.22	8.5	99706			
SEEPAGE PIT - 600 Highland	West Manchester Twp	Codorus Creek	39.959793	-76.760962	6/30/2015		See recorded plan set.	4 times per year	6/30/2016	yes	OWNER / WMTWP	0.14		2250			
SEEPAGE BED/BASIN - Normandie Ridge	West Manchester Twp	L. Conewago	39.984338	-76.778703	2015	PAG 02-0067-10-001R	See recorded plan set.	twice a year		yes	OWNER / WMTWP	0.3	0.23	1259			
FORE BAY/ SEEPAGE BASIN - 325 S. Salem		-					·	,		•							
Church Rd. BASIN / AMENDMENT SOILS - West	West Manchester Twp	Honey Run	39.934209	-76.821962	16-Oct	PAG 02-0067-14-067	See recorded plan set.	annually, twice a year		yes	OWNER / WMTWP	29.786	16.814	90529			
Manchester Town Center	West Manchester Twp	Willis Run	39.966773	-76.772165	16-Nov	PAG 02-0067-13-010-1	See recorded plan set.	twice a year		twice a year	OWNER / WMTWP	12.25	5.68	94989			
SEEPAGE BED - Athletic Club	West Manchester Twp	Willis Run	39.975476	-76.771206	7/5/2016		See recorded plan set.	annually	7/6/2016	yes	OWNER / WMTWP	0.06		2926			
SEEPAE BED - Giambalvo SEEPAGE BED / WATER QUALITY SWALES -	West Manchester Twp	W. Branch Codorus Creek	39.929754	-76.82733	8/28/2015	PAG 02-0067-15-023	See recorded plan set.	twice a year	9/1/2015	yes	OWNER / WMTWP	1.61	0.78	7500			
551 Manchester Ct.	West Manchester Twp	Codorus Creek	39.949872	-76.785121	2015	PAG 02-0067-15-046	See recorded plan set.	monthly/ as needed	7/21/2016	yes	OWNER / WMTWP	3.19	0.84	7125			
BIO RETENTION - York Propane	West Manchester Twp	Codorus Creek	39.943775	-76.771055	2008		See recorded plan set.	annually	8/26/2016	yes	OWNER / WMTWP	3.9	2.6	19338			
INILTRATION TRENCH - Church of Open Door	West Manchester Twp	Codorus Creek	39.968721	-76.783006	12/8/2014	PAG 02-0067-07-071	See recorded plan set.	as needed	6/2/2016	yes	OWNER / WMTWP	1.91		56050			
West Manheim Township - Chris Toms, Engine Infiltration Bed	er (717) 814-4566 cwt@csdavidson.con West Manheim Township	n Indian Run	39.76342	-76.96142	20/10/2015	PAG02006715063	Inpection	twice per year and after major storm events greater than 1 inch	30/10/2015	Yes	ANCB	0.08	0.2295				1050
Infiltration Bed	West Manheim Township	Indian Run	39.763566	-76.960569	20/10/2015	PAG02006715063	Inpection	twice per year and after major storm events greater than 1 inch	30/10/2015	Yes	ANCB	0.321	0.08				3288
Infiltration Bed	West Manheim Township	Indian Run	39.766673	-76.961392	3/8/2015	PAG02006715025	Inpection	twice per year and after major storm events greater	3/8/2015	Yes	Peoples Bank	0.496	0.409				9471
Pervious Pavement	West Manheim Township	Indian Run	39.76674	-76.960895	3/8/2015	PAG02006715025	Inpection	than 1 inch twice per year and after major storm events greater than 1 inch	3/8/2015	Yes	Peoples Bank	0.087		3790			
Infiltration Bed	West Manheim Township	South Branch Conewago Creek	39.759832	-76.983987	11/5/2016	could not find	Inspection	twice per year and after major storm event	11/5/2016	Yes	Hanover YMCA	0.563	3.548				11580
Infiltration Bed	West Manheim Township	South Branch Conewago Creek	39.759652	-76.983353	11/5/2016	could not find	Inspection	twice per year and after	11/5/2016	Yes	Hanover YMCA	0.822	0.309				7200
								major storm event twice per year and after	 								
Infiltration Bed	West Manheim Township	South Branch Conewago Creek	39.759242	-76.984372	11/5/2016	could not find	Inspection	major storm event	11/5/2016	Yes	Hanover YMCA	0.644	0				3480
Infiltration Bed	West Manheim Township	South Branch Conewago Creek	39.758894	-76.983379	11/5/2016	could not find	Inspection	twice per year and after major storm event	11/5/2016	Yes	Hanover YMCA	1.706	1.356				10080
Basin	West Manheim Township	South Branch Conewago Creek	39.759123	-76.984435	11/5/2016	could not find	Inspection	Four times per year and after major storm events greater than 2 inches	11/5/2016	Yes	Hanover YMCA	4.097	9.958	33002			
Infiltration Bed	West Manheim Township	West Branch Codorus Creek	39.744325	-76.9026	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.1	0.1				4211
Infiltration Bed	West Manheim Township	West Branch Codorus Creek	39.745407	-76.903362	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.1	0.4				2613
Infiltration Bed	West Manheim Township	West Branch Codorus Creek	39.746012	-76.902616	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.03	0.37				3447
Infiltration Bed	West Manheim Township	West Branch Codorus Creek	39.746292	-76.902864	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.2	0.1				5520
Infiltration Bed	West Manheim Township	West Branch Codorus Creek	39.74653	-76.9036	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.2	0.1				2640
Vegetated Swale	West Manheim Township	West Branch Codorus Creek	39.74555	-76.902724	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0.1	0.4	2096			
Vegetated Swale	West Manheim Township	West Branch Codorus Creek	39.746774	-76.902408	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0	0.4	400			
Vegetated Swale	West Manheim Township	West Branch Codorus Creek	39.746917	-76.903184	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0	0.7	400			-
Vegetated Filter Strip	West Manheim Township	West Branch Codorus Creek	39.7469683	-76.90265	22/09/2015	PAG02006714038	Inpection	twice per year and after major storm events greater than 2 inches	22/09/2015	Yes	Patricia Kulacki	0	0.7	3000			
Windsor Borough - John Runge - Gordon L. Bro		Cusushaas	20.04574	76 50450	000/2010	NI/A	Panding		· · · · · · · · · · · · · · · · · · ·	Vas	Windows	107.2	F76.24	1400	Ancres FOOI	1014001	
Fishing Cr. Stream Rest	Windsor Boro	Susquehanna	39.91571	-76.58159	8&9/2016	N/A	Pending	Bi-annual		Yes	Windsor Boro	187.2	576.31	1400	Approx.500'	10'x400'	0

		Location				Installation		0&M			Drainage	Area (acres)			BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection BMP	Responsible person/agency for	Impervious	Pervious	BMP Surface	Stream Restoration	Stream Buffer	Trench L/W/D (CF)
	,							,	Date Functioning?	inspections			Area (SF)	Length (LF)	Width & Length (LF)	
Windsor Township - Kipp Allison (717) 244-35	113 halliaan Quuindaantuun aann						Activities									
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'24.26" N	-76°36'29.46"	9/11/2008	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0309	0				14' x 22.5' x 4.5' (1,417.5)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'23.78" N	-76°36'29.40"	11/7/2008	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0222	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'23.26" N 39°56'21.09" N	-76°36'29.33" -76°36'31.18"	9/11/2008 11/7/2008	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0278 0.0386	0				12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'19.93" N	-76°36'33.33	7/22/2009	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0234	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'19.14" N 39°56'18.60" N	-76°36'34.83" -76°36'35.82"	10/10/2008 12/10/2008	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0318 0.0278	0	_		 	12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'18.37" N	-76°36'36.38"	11/17/2008	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0278	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'18.21" N	-76°36'36.99"	1/14/2009	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0334	0				12' x 27' x 4.5' (1,458)
6.4.6 6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'18.12" N 39°56'22.73" N	-76°36'37.62" -76°36'31.60"	11/17/2008 9/11/2008	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0304 0.0334	0				12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'23.31" N	-76°36'31.33"	12/2/2008	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.027	0				12' x 27' x 4.5' (1,458)
6.4.6 6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'20.71" N 39°56'20.18" N	-76°36'31.86" -76°36'32.84"	9/21/2009 5/27/2009	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0382 0.0821	0				12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'19.39" N	-76°36'34.33"	8/4/2009	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.031	0				30' x 10' x 4.5' (1,350)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'18.87" N 39°56'14.98" N	-76°36'35.33" -76°36'40.49"	6/22/2009 12/7/2009	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes	Homeowner Homeowner	0.0238 0.0274	0	_		 	13' x 29' x 4.5' (1696.5) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'19.59" N	-76°36'38.96"	4/2/2009	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0278	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'19.71" N 39°56'20.22" N	-76°36'37.45" -76°36'36.31"	7/27/2009	PAG2006707012-1R PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0262	0				12' x 27' x 4.5' (1,458) 11' x 30' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'23.79" N	-76°36'31.42"	5/27/2009 6/19/2009	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0269 0.0278	0				11' x 29' x 4.5' (1,435.5)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'15.90" N	-76°36'40.55"	12/2/2010	PAG2006707012-1R PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0269	0				12' x 27' x 4.5' (1,458)
6.4.6 6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'18.24" N 39°56'19.59' N	-76°36'40.61" -76°36'38.09"	3/1/2010 3/8/2010	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0256 0.0345	0			 	12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'28.48" N	-76°37'01.37"	11/28/2011	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0261	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'19.90" N 39°56'15.31" N	-76°36'34.34" -76°36'39.50"	11/17/2011 8/11/2014	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0239	0	+		 	12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1.458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'23.87" N	-76°37'01.22"	10/16/2012	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0269	0	1			12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'24.62" N 39°56'17.13" N	-76°36'30.63" -76°36'39.71"	6/11/2011 4/4/2011	PAG2006707012-1R PAG2006707012-1R	Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0269	0	+	 	 	14' x 39' x 4' (2,184) 10' X 40' X 4.5' (1,800)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'17.13" N 39°56'18.41" N	-76°36'39.71" -76°36'39.68"	4/4/2011 5/4/2011	PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0331	0			<u> </u>	10' X 40' X 4.5' (1,800) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'24.62" N	-76°36'30.63"	11/12/2012	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0243	0				12' x 27' x 4.5' (1,458)
6.4.6 6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'22.27" N 39°56'17.60" N	-76°36'29.45" -76°36'38.77"	2/15/2013 2/1/2013	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0288 0.0288	0	+		 	8' x 80' x 4' (2,560) 10' x 32' x 4.5' (1,440)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'17.19" N	-76°36'38.74"	7/8/2013	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0288	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'17.77" N 39°56'18.41" N	-76°36'39.64" -76°36'39.68"	3/20/2014 7/2/2013	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0326 0.0224	0				12' x 27' x 4.5' (1,458) 12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°56'16.91" N	-76°36'39.58"	6/16/2014	PAG2006707012-1R	Visual Inspection	Annually	Yes	Homeowner	0.0273	0				12' x 27' x 4.5' (1,458)
6.4.6	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'19.01" N 39°56'16.98" N	-76°36'36.20" -76°36'39.59"	10/9/2014 12/7/2015	PAG2006707012-1R PAG2006707012-1R	Visual Inspection Visual Inspection	Annually Annually	Yes Yes	Homeowner Homeowner	0.0274	0				12' x 28' x 4.5' (1,512) 13' x 25' x 4' (1,300)
6.4.5	Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°57'14.77" N	-76°37'05.86"	11/26/2013	PAG02006708068R	Inspect for debris & plant health	Quarterly	Yes	Homeowner	0.0682	0.0113	683.1			13 X23 X4 (1,300)
6.4.5	Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°57'14.72" N	-76°37'05.86"	2/25/2014	PAG02006708068R PAG02006708068R	Inspect for debris & plant health	Quarterly	Yes	Homeowner Homeowner	0.059	0.0135	591.3			
6.4.5	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°57'15.10" N 39°57'10.74" N	-76°37'01.07" -76°36'54.42"	5/26/2015 12/2015	PAG02006708068R PAG02006708068R	Inspect for debris & plant health Inspect for debris & plant health	Quarterly Quarterly	Yes Yes	Homeowner	0.0584	0.0107	584.66 705.41		 	
6.4.5	Windsor Twp	Kreutz-Muddy Creek	39°57'11.89" N	-76°36'57.68"	11/2015	PAG02006708068R	Inspect for debris & plant health	Quarterly	Yes	Homeowner	0.0625	0.0053	625.83			
6.4.5	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°57'15.75" N 39°57'14.77" N	-76°37'01.93" -76°37'05.86"	8/2015 06/2015	PAG02006708068R PAG02006708068R	Inspect for debris & plant health Inspect for debris & plant health	Quarterly Quarterly	Yes Yes	Homeowner Homeowner	0.0677 0.0632	0.0172 0.0147	677.81 632.96			
6.4.5	Windsor Twp	Kreutz-Muddy Creek	39°57'14.72" N	-76°37'05.86"	12/2015	PAG02006708068R	Inspect for debris & plant health	Quarterly	Yes	Homeowner	0.07	0.0207	701.27			
6.4.5 6.4.5	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°57'11.89" N 39°57'11.89" N	-76°36'57.68" -76°36'57.68"	11/2015 09/2016	PAG02006708068R PAG02006708068R	Inspect for debris & plant health Inspect for debris & plant health	Quarterly Quarterly	Yes Yes	Homeowner Homeowner	0.0789 0.0669	0.0148 0.0148	790.51 670.45			
6.4.4		·	39°53'32.92" N	-76°33'53.12"		N/A	·			nomeowner	0.35	0.64	1,360			14' v 124' v 2' /2 472\
0.4.4	Windsor Twp	Kreutz-Muddy Creek	39 33 32.92 N	-70 33 33.12	2011	N/A	Inspect for Sediment & Debris	Twice year & after 1" storm	Yes		0.35	0.04	1,300			14' x 124' x 2' (3,472)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°55'24.39" N	-76°35'07.00"	12/2014	N/A	Visual Inspection	Biannually & after 1" storm	Yes		0.04	0	0			20' x 26' x 1.5' (780)
6.4.3	Windsor Twp	Kreutz-Muddy Creek	39°55'25.23" N	-76°35'06.61"	11/2014	N/A	Visual Inspection	Biannually & after 1" storm	Yes		0.003	0	0			2' x 26' x 1' (52)
						1,7.1							<u> </u>		 	(,
6.4.3	Windsor Twp	Kreutz-Muddy Creek	39°55'24.96" N	-76°35'23.70"	11/2014	N/A	Visual Inspection	Biannually & after 1" storm	Yes		0.007	0	0			2' x 60' x 1' (120)
6.4.4	Windsor Twp	Kreutz-Muddy Creek	39°53'33.82" N	-76°35'23.70"		PAG2006708062	Inspect & clean inlets	Quarterly	Yes		2.79	0.13	0			65' x 120' x 3' (23,400)
6.6.4	Windsor Twp	Kreutz-Muddy Creek	39°57'37.25" N	-76°39'12.30"	08/2011	N/A	Visual Inspection	Biannually & after 1" storm	Yes		0.16	0	0			22' x 48' x 1.67 (1,764)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°53'53.88" N	-76°35'50.33"	01/2014	N/A	clean inlet structures clogging	Biannually & after 1" storm	Yes		0.07	0	0			14.5' x 14.5' x 4' (841)
6.4.3	Windsor Twp	Kreutz-Muddy Creek	39°53'28.54" N	-76°35'30.66"	10/2008	N/A	Clear of trash	Daily	Yes		0.72	0.17	400			12.5' x 100' x 4' (5,000)
6.4.3	Windsor Twp	Kreutz-Muddy Creek	39°54'08.44" N	-76°34'50.14"	10/20016	N/A	Inspect for Sediment & Debris	Biannually & after 1" storm	Yes		0.14	0.02	270			90' x 25' x 1' (2,250)
6.4.6	Windsor Twp	Kreutz-Muddy Creek	39°53'36.84" N	-76°35'26.63"	2010	PAG2006708062-1	Accum. Of Settlement	Quarterly	Yes		2.66	0.23	0			200' x 16' x 4.67' (14,944)
6.4.2	Windsor Twp	Kreutz-Muddy Creek	39°56'27.71" N	-76°36'30.32"	06/2008	PAG2006707012-1R	Clear of trash & debris	Biannually & post storm	Yes		0.835	1.265	9,225			200 X 10 X 4.07 (14,544)
6.4.2. 6.4.2	Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'15.77" N 39°56'28.63" N	-76°36'37.22"	06/2008 06/2008	PAG2006707012-1R PAG2006707012-1R	Clear of trash & debris Clear of trash & debris	Biannually & post storm Biannually & post storm	Yes Yes		1.02 0.849	1.26	18,040 8,800			
6.4.2	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'28.63" N 39°56'11.63" N	-76°36'32.66" -76°36'40.04"	06/2008	PAG2006707012-1R PAG2006707012-1R	Clear of trash & debris Clear of trash & debris	Biannually & post storm Biannually & post storm	Yes		0.849	2.721 4.365	10,200			
6.4.2	Windsor Twp	Kreutz-Muddy Creek	39°56'23.40" N	-76°36'40.64"	06/2008	PAG2006707012-1R	Clear of trash & debris	Biannually & post storm	Yes		2.20	10.10	20.450			These three basins are
6.4.2 6.4.2	Windsor Twp Windsor Twp	Kreutz-Muddy Creek Kreutz-Muddy Creek	39°56'28.72" N 39°56'27.42" N	-76°36'41.73" -76°36'44.53"	06/2008 06/2008	PAG2006707012-1R PAG2006707012-1R	Clear of trash & debris Clear of trash & debris	Biannually & post storm Biannually & post storm	Yes Yes		2.29	16.16	38,459		+	connected to one drainage area
York City - Derek Rinaldo, C.S. Davidson (717)	846-4805							, ,					-1		· · · · · ·	
BMP 6.4.3 Subsurface Infiltration Bed Underground rate control facility	City of York	UNT to Codorus Creek	39.966404 39.979161	-76.714576 -76.752934	2012	N/A	See recorded plan set.		4/2/2015 Yes 3/7/2016 No		0.021 0.109		0 N/A			270 7841
BMP 6.6.4 Water Quality Filters &	City of York	Willis Run	39.979161	-76.752934	2013	PAG-02-0067-12-007	See recorded plan set.		3/7/2016 No		1.11			N/A		7841 N/A
Hydrodynamic Devices			39.979074	-70.732/09					3/1/2010 NO		1.11	0.1	N/A			N/A
BMP 6.6.4 Water Quality Filters & Hydrodynamic Devices	City of York	Poorhouse Run	39.955074	-76.722658	2012	N/A (< 1 AC)	See recorded plan set.		7/11/2013 Yes		0.46	0.0	03 N/A	N/A	N/A	N/A
Underground rate control facility			39.955094	-76.722543			See recorded plan set.				0.46		03 N/A			1025
BMP 6.4.3 Subsurface Infiltration Bed BMP 6.4.5 Rain Garden/Bioretention	City of York	Codorus Creek	39.964674 39.968500	-76.728756 -76.716376	2012	N/A			4/6/2015 Yes Yes		UNK 0.03	UNK 0.0	N/A		N/A N/A	UNK N/A
BMP 6.4.5 Rain Garden/Bioretention			39.968690	-76.715955	1		See recorded plan set.		Yes	1	0.04	0.0		N/A	N/A	N/A
Underground rate control facility	City of York	UNT to Codorus Creek (Poorhouse Run)	39.968867	-76.715909	2013	UNK	See recorded plan set.		3/27/2014 Yes	-	0.27		0 N/A			534
BMP 6.6.4 Water Quality Filters & Hydrodynamic Devices			39.968757	-76.715828	1		See recorded plan set.		Yes		0.29		0 N/A	N/A	N/A	N/A
Underground rate control facility			39.956443	-76.733244			See recorded plan set.		Yes]	1.837					16463
Underground rate control facility BMP 6.6.4 Water Quality Filters &	City of York	Codorus Creek	39.956910	-76.733335	2013	UNK	See recorded plan set.		9/2/2013 Yes	-	1.031	0.50				13229
Hydrodynamic Devices	5, 51 1011	222.03 0.000	39.956000	-76.734000		3	See recorded plan set.		Yes		2.962		59 N/A	N/A		N/A
BMP 5.9.1: Streetsweeping	City of Vo-I	LINT to Coderus Creek (Beechause Burn)	39.956000 39.956620	-76.734000 -76.718747	2012	NI/A /> 1 AC\	See recorded plan set		N/A N/A		0.839		926	N/A N/A		N/A
BMP 6.4.5 Rain Garden/Bioretention Proprietary FloGard downspout filters	City of York City of York	UNT to Codorus Creek (Poorhouse Run) UNT to Codorus Creek	39.956620 39.957854	-76.718747 -76.738287	2012 2011	N/A (< 1 AC) N/A (< 1 AC)	See recorded plan set. See recorded plan set.		None listed Yes 4/6/2015 No		0.3		0 N/A			N/A N/A
BMP 6.4.5 Rain Garden/Bioretention			39.969903	-76.734918			See recorded plan set.		Yes No.		0.02			N/A		N/A
BMP 6.4.5 Rain Garden/Bioretention BMP 6.4.4 Infiltration Trench	City of York	Willis Run	39.969454 39.970358	-76.735922 -76.735245	2011	UNK	See recorded plan set.		2/12/2013 No Yes	-	0.21			N/A N/A		N/A 880
BMP 6.4.3 Subsurface Infiltration Bed			39.963937	-76.703224					163	1	0.022		0 N/A			216
DNAD C 4.3 Subsurface Infilhestica Dad	City of York	UNT to Codorus Creek (Poorhouse Run)	39.963905	-76.703207	2013	N/A (< 1 AC)	See recorded plan set.		10/24/2013 Yes		0.022		0 N/A	. N/A	N/A	216
		i .	1	-70.703207	1	1			i I	Ì	0.022		IN/P	IN/A	· N/A	216
BMP 6.4.3 Subsurface Infiltration Bed									<u> </u>							

		Location			ı	Installation	1	0&M				Drainage A	rea (acres)		1	BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Last inspection Date	BMP Functioning?	Responsible person/agency for	Impervious	Pervious	BMP Surface Area (SF)	Stream Restoration Length (LF)	Stream Buffer Width & Length (LF)	Trench L/W/D (CF)
							Activities		Julie 1	andioming.	inspections			71100 (517)	congen (cr /	Wider & Seriger (Er)	
York City - continued																	
BMP 6.4.5 Rain Garden/Bioretention BMP 6.6.4 Water Quality Filters &	City of York	UNT to Willis Run	39.978484	-76.757430	2012	UNK	See recorded plan set.	-	N/A	N/A	-	1.095	0.114	1086	N/A	1 1	N/A
Hydrodynamic Devices	.,		39.978000	-76.757000			·		3/7/2016	No		0.3	0.014	N/A	N/A		N/A
BMP 6.4.9 Vegetated Filter Strip BMP 6.6.4 Water Quality Filters &	City of York	Codorus Creek	39.956050	-76.749123	2010	N/A (< 1 AC)	See recorded plan set.		7/10/2013	Yes	-	1	0.116	1203	N/A		N/A
Hydrodynamic Devices	·		39.956551	-76.749240	2010		See recorded plan set.		7/10/2013	Yes	-	0.123	0	N/A	N/A		N/A
Underground rate control facility BMP 6.6.4 Water Quality Filters &			39.981359	-76.757303	2010	UNK			4/10/2012	Yes	-	0.26	0.02	N/A N/A	N/A		16685
Hydrodynamic Devices	City of York	UNT to Codorus Creek	39.981900 39.982448	-76.756400 -76.755335	2010/2014	UNK			4/10/2012 3/9/2016	Yes	-	2.32 0.78	1.88 0.78	N/A N/A	N/A N/A		N/A 7860
Underground rate control facility BMP 5.9.1: Streetsweeping			39.982448	-76.755335 -76.756400	n/a	UNK			3/9/2016 N/A	N/A		0.78	0.78	N/A 41556	N/A	N/A	N/A
BMP 6.6.3 Dry Extended Detention Basin BMP 6.4.5 Rain Garden/Bioretention	City of York	UNT to Willis Run	39.979953 39.949847	-76.757611 -76.732831	2013	UNK	See recorded plan set.		3/9/2016	No	-	1.47 0.775	1.2 1.125	3440 1235	N/A N/A		N/A N/A
BMP 6.4.5 Rain Garden/Bioretention	City of York	UNT to Codorus Creek (Tyler Run)	39.949664	-76.732405	2011	UNK	See recorded plan set.		2/14/2013	Yes		0.375	0.415	2185	N/A	N/A	N/A
BMP 6.4.2 Infiltration Basin BMP 6.4.4 Infiltration Trench			39.950810 39.956841	-76.733170 -76.715515			See recorded plan set.				-	0.24	1.31	5438 N/A	N/A N/A		N/A 839
BMP 6.4.4 Infiltration Trench	City of York	UNT to Codorus Creek	39.956579	-76.715299	2014	N/A (< 1 AC)	Commented the set		4/6/2015	Yes		0.22	0	N/A	N/A		563
BMP 6.4.4 Infiltration Trench BMP 6.4.5: Rain Garden/Bioretention	City of York City of York	Willis Run Willis Run	39.986771 39.980155	-76.751637 -76.750617	2013	N/A (< 1 AC) N/A (< 1 AC)	See recorded plan set. See recorded plan set.		3/9/2016 3/8/2016	No Yes	-	0.086	0.018	N/A 616	N/A N/A		238 N/A
BMP 6.4.4 Infiltration Trench BMP 6.6.3 Dry Extended Detention Basin	City of York	Willis Run	39.990045	-76.745556	2014	N/A (< 1 AC)	See recorded plan Set.		3/8/2016 4/2/2015	No No		0.06 43.87	0.008 32.3	N/A 87552	N/A N/A		206 N/A
BMP 6.5.2 Runoff Capture & Reuse	City of York	Codorus Creek	39.965893	-76.731130	2015	N/A (< 1 AC)	See recorded plan set.		4/6/2016	Yes		0.6	0.08	N/A	N/A	N/A	294
BMP 6.6.3 Dry Extended Detention Basin BMP 6.6.4 Water Quality Filters &	City of York	UNT to Codorus Creek (Tyler Run)	39.948881	-76.731213	2013	UNK	See recorded plan set.		4/6/2015	No	-	1.285	1.695	4370	N/A		N/A
Hydrodynamic Devices		· · · · · · · · · · · · · · · · · · ·	39.948389	-76.730755			See recorded plan set.		, -, -313			0.28	0.09	N/A	N/A	N/A	N/A
Underground rate control facility w/ internal sand filter	City of York	Willis Run	39.990065	-76.746272	2015	N/A (< 1 AC)	See recorded plan set.		3/9/2016	No		0.122	0	N/A	N/A	N/A	425
BMP 6.4.3 Subsurface Infiltration Beds	City of York	Codorus Creek	39.956789	-76.736297	2015	N/A (< 1 AC)	See recorded plan set.		Aug-15	Yes		0.028	0	N/A	N/A	N/A	307
York County - Barry Myers, York County Parks I	Dept. (717) 840-7230 blmyers@yorkcou	ntypa.gov										I	T			1	
Heindel Road Vegetated Swale	Springettsbury Twp	Kreutz	39.9892	-76.6512	15-Oct	No	Inspect and correct erosion problems, inspect for pools of standing water, inspect for litter	t within 48 hours after every major storm event (>3")		Yes		10.8 ac	6.29 ac	11,400			
							+				PennDot/					+	
											Springfield						
											Twp/Loganville Boro. After post-		1,338 (total-don't				
Stream Restoration-Nixon Park	Jacobus Boro / Springfield Twp	E. Branch codorus	39.88048	-76.72666	16-Oct		Monitoring as required by ACOE permit	once per month		Yes	construction monitoring, York		know perv/imperv)	87,991	1,190		
											County		perv/imperv)				
											Department of Parks and Rec						
Northern Ext of Rail Trail											Tarks and nec						
Porous pavement @ Nixon Park Porous pavement @ Highpoint	Springfield Twp Lower Windsor Twp		39.885285 40.008526	-76.731436 -76.517712												-	
Removal of impervious surface (modular	Springettsbury Twp		39.986561	-76.661077													
trailers) York Township - Gary Milbrand (717) 741-3861		m															
6.4.6 & 6.4.8 Dry Well/ Seepage Pit & Vegetated Swale	York Township	UNT to Mill Creek	39.9137	-76.6711	1/7/2016	E&S only	Insp & Maintain as needed	Yearly & as needed	1/7/2016	Yes	York Township	0.46	0.53				1515
6.6.X - Dry Detention Basin	Vork Township	Unnamed Tributary Mill Creek	39.910779	-76.682217	15/12/2015	E&S only	Per O&M agr.	Per O&M agr.	15/12/2015	Yes	Property Owner	1.991	0.449	~5850			7643
6.6.X - Dry Detention Basin	York Township York Township	Unnamed Tributary Mill Creek Unnamed Tributary Mill Creek	39.9233	-76.6761	1/10/2015	E&S only	Insp & Maintain as needed	Yearly & as needed	1/10/2015	Yes	of York Township	3.48	14.1	~15800			7043
6.6.X - Dry Detention Basin	York Township	Unnamed Tributary Mill Creek	39.9206	-76.6787	1/10/2015	E&S only	Insp & Maintain as needed	Yearly & as needed	1/10/2015	Yes	York Township	1.42	2.94	~33290			
6.6.4 - Water Quality Filter	York Township	Unnamed Tributary Mill Creek	39.9228	-76.681	1/10/2015	E&S only	Insp & Maintain as needed	Yearly & as needed	1/10/2015	Yes	York Township Property Owner	0.01	0.04				
6.6.4 - Water Quality Filter	York Township	Unnamed Tributary Lake Redman	39.908353	-76.700124	10/6/2015	E&S only		Per O&M agr.	10/6/2015	Yes	of	0.01	0.18				
6.6.4 - Water Quality Filter	York Township			1		+	Per O&M agr.	1			D						
6.4.3 - Subsurface Infiltration Bed		Unnamed Tributary Lake Redman	39.908539	-76.70022	10/6/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015	Yes	Property Owner of	0	0.1				
	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman	39.908539 39.908546	-76.70022 -76.700465	10/6/2015 10/6/2015	E&S only	-	-	10/6/2015	Yes	Property Owner of Property Owner	0.24	0.19	2825			
6.6.4 - Water Quality Filter		Unnamed Tributary Lake Redman	39.908546	-76.700465	10/6/2015	E&S only	Per O&M agr. Per O&M agr.	Per O&M agr. Per O&M agr.	10/6/2015	Yes	of	0.24	0.19	2825			
6.6.4 - Water Quality Filter	York Township York Township						Per O&M agr.	Per O&M agr.			of Property Owner of Property Owner of	0.24		2825			
6.6.4 - Water Quality Filter 6.4.3 - Subsurface Infiltration Bed		Unnamed Tributary Lake Redman	39.908546	-76.700465	10/6/2015	E&S only	Per O&M agr. Per O&M agr.	Per O&M agr. Per O&M agr.	10/6/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two	0.19	2825			
6.4.3 - Subsurface Infiltration Bed	York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman	39.908546 39.908401 39.908396	-76.700465 -76.700724 -76.700668	10/6/2015 10/6/2015 10/6/2015	E&S only E&S only	Per O&M agr. Per O&M agr. Per O&M agr. Per O&M agr.	Per O&M agr. Per O&M agr. Per O&M agr. Per O&M agr.	10/6/2015 10/6/2015 10/6/2015	Yes Yes Yes	of Property Owner of Property Owner of Property Owner of	0.24 0.07 Combined with 6.4.3 two above	0.19	2825			
	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman	39.908546 39.908401	-76.700465 -76.700724	10/6/2015 10/6/2015	E&S only	Per O&M agr. Per O&M agr. Per O&M agr.	Per O&M agr. Per O&M agr. Per O&M agr.	10/6/2015	Yes	of Property Owner of Property Owner of Property Owner of Property Owner of	0.24 0.07 Combined with 6.4.3 two	0.19	2825			
6.4.3 - Subsurface Infiltration Bed	York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman	39.908546 39.908401 39.908396	-76.700465 -76.700724 -76.700668	10/6/2015 10/6/2015 10/6/2015	E&S only E&S only	Per O&M agr. Per O&M agr. Per O&M agr. Per O&M agr.	Per O&M agr. Per O&M agr. Per O&M agr. Per O&M agr.	10/6/2015 10/6/2015 10/6/2015	Yes Yes Yes	of Property Owner of Property Owner of Property Owner of Property Owner of	0.24 0.07 Combined with 6.4.3 two above	0.19	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter	York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718	-76.700465 -76.700724 -76.700668 -76.693906	10/6/2015 10/6/2015 10/6/2015 41943	E&S only E&S only E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014	Yes Yes Yes Yes	of Property Owner of Property Owner of Property Owner of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac	0.19 0.01 both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter	York Township York Township York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943	E&S only E&S only E&S only E&S only E&S only E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014	Yes Yes Yes Yes Yes Yes Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac	0.19 0.01 both both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter	York Township York Township York Township York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014	Yes Yes Yes Yes Yes Yes Yes Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac	0.19 0.01 both both both both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter	York Township York Township York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943	E&S only E&S only E&S only E&S only E&S only E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014	Yes Yes Yes Yes Yes Yes Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac	0.19 0.01 both both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter	York Township York Township York Township York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014	Yes Yes Yes Yes Yes Yes Yes Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac	0.19 0.01 both both both both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter	York Township York Township York Township York Township York Township York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.93459	-76.700465 -76.700724 -76.700768 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac	0.19 0.01 both both both both both	2825			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.934528	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.693839 -76.693839	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 41943 21/07/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac unknown 1.25	0.19 0.01 both both both both both both both	2858			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.93455 39.934528 39.934528 39.912911	-76.700465 -76.700724 -76.700768 -76.693906 -76.693739 -76.693344 -76.692918 -76.693839 -76.626817	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 41943 21/07/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08	0.19 0.01 both both both both both continued both both both both 0.71 0.02	2858 600			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.934528	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.693839 -76.693839	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 41943 21/07/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac unknown 1.25	0.19 0.01 both both both both both both both	2858			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.93455 39.934528 39.934528 39.912911	-76.700465 -76.700724 -76.700768 -76.693906 -76.693739 -76.693344 -76.692918 -76.693839 -76.626817	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 41943 21/07/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08	0.19 0.01 both both both both both continued both both both both 0.71 0.02	2858 600			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.4 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911	-76.700465 -76.700724 -76.700724 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015	E&S only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3	0.19 0.01 both both both both condition of the conditio	2858 600 1250			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92614682	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.626817 -76.626817 -76.626817 -76.71880182 -76.71803615	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012	E&S only EAS only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92640395	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012	E&S only F&S only E&S only EAS only PAG2006708075 PAG2006708075	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3 3.7 2.3 ~4.38	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5 both	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92614682	-76.700465 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.626817 -76.626817 -76.626817 -76.71880182 -76.71803615	10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012	E&S only EAS only	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92640395	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012	E&S only F&S only E&S only EAS only PAG2006708075 PAG2006708075	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3 3.7 2.3 ~4.38	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5 both	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed 6.4.4 - Subsurface Infiltration Bed 6.4.5 - Rain Garden / BioRetention Bed 6.6.4 - Water Quality Filter	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934985 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92614682 39.92640395 39.92587079 39.92624358	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412 -76.71968825 -76.7194892	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012 30/04/2012 30/04/2012	E&S only F&S only E&S only E&S only EAS only PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015 31/08/2015 29/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3 3.7 2.3 ~4.38 ~3485 sq ft 40075 sq ft	0.19 0.01 both both both both condition of the conditio	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter	York Township Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92640395 39.92640395 39.92624358 39.92639173	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.692817 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412 -76.71968825 -76.7194892 -76.72001399	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012 30/04/2012 30/04/2012 30/04/2012	E&S only EAS only E&S only E&S only EAS only EAS only PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075	Per O&M agr. Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015 29/08/2015 29/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac .1.42ac .3.00ac .1.45 .0.08 .3.7 .2.3 .74.38	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5 both both both both	2858 600 1250 26400					
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Subsurface Infiltration Bed 6.4.4 - Water Quality Filter	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934985 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92614682 39.92640395 39.92587079 39.92624358	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412 -76.71968825 -76.7194892	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012 30/04/2012 30/04/2012	E&S only F&S only E&S only E&S only EAS only PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075	Per O&M agr.	Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015 31/08/2015 29/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3 3.7 2.3 ~4.38 ~3485 sq ft 40075 sq ft	0.19 0.01 both both both both condition of the conditio	2858 600 1250 26400			
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.6.3 - Subsurface Infiltration Bed 6.4.3 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter	York Township Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.92729206 39.92640395 39.92640395 39.92624358 39.92639173	-76.700465 -76.700724 -76.700724 -76.700668 -76.693906 -76.693739 -76.693344 -76.693264 -76.692918 -76.692817 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412 -76.71968825 -76.7194892 -76.72001399	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012 30/04/2012 30/04/2012 30/04/2012	E&S only EAS only E&S only E&S only EAS only EAS only PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075	Per O&M agr. Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015 29/08/2015 29/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac .1.42ac .3.00ac .1.42ac .3.00ac .1.45 .0.08 .3.7 .2.3 .74.38	0.19 0.01 both both both both 0.71 0.02 0.06 1.6 2.5 both both both both	2858 600 1250 26400					
6.4.3 - Subsurface Infiltration Bed 6.6.4 - Water Quality Filter 6.4.3 - Subsurface Infiltration Bed 6.4.4 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter 6.6.4 - Water Quality Filter	York Township	Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Lake Redman Unnamed Tributary Codorus Creek Mill Creek Mill Creek Mill Creek 200 - Unnamed Tributary Codorus Creek	39.908546 39.908401 39.908396 39.934718 39.934796 39.934965 39.934985 39.934528 39.912911 39.912911 39.912911 39.912911 39.92729206 39.92640395 39.926839173 39.92641641	-76.700465 -76.700724 -76.700724 -76.700724 -76.693906 -76.693739 -76.693344 -76.693264 -76.693839 -76.626817 -76.626817 -76.71880182 -76.71803615 -76.72005412 -76.71968825 -76.7194892 -76.72001399 -76.71984299	10/6/2015 10/6/2015 10/6/2015 10/6/2015 41943 41942 41943 41943 41943 21/07/2015 21/07/2015 21/07/2015 21/07/2015 30/04/2012 30/04/2012 30/04/2012 30/04/2012 30/04/2012 30/04/2012	E&S only EAS only E&S only E&S only EAS only PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075 PAG2006708075	Per O&M agr. Per O&M agr.	10/6/2015 10/6/2015 10/6/2015 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 31/10/2014 21/07/2015 21/07/2015 21/07/2015 31/08/2015 31/08/2015 31/08/2015 29/08/2015 29/08/2015 29/08/2015	Yes	of Property Owner of	0.24 0.07 Combined with 6.4.3 two above .21ac .67ac .01ac 1.42ac 3.00ac unknown 1.25 0.08 0.3 3.7 2.3 ~4.38 ~3485 sq ft 40075 sq ft 4.38ac 16117 sq ft	0.19 0.01 both both both both construction both both both both both both both both	2858 600 1250 26400				

		Location				Installation		0&M				Drainage	Area (acres)		E	MP Information	
BMP Type/Description (DEP Manual)	Monisinalita	Watarahad	Latituda	Langituda	Data	NIDDEC Doggests #		F	Last inspection	ВМР	Responsible	Immonitore	Danieus	BMP Surface	Stream Restoration	Stream Buffer	Transh I (M/D (CF)
(DEF Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #		Frequency	Date F	functioning?	person/agency for inspections	Impervious	Pervious	Area (SF)	Length (LF)	Width & Length (LF)	Trench L/W/D (CF)
York Township - continued							Activities										
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92673687	-76.71809813	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner of	1.05ac	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92653327	-76.71784974	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner of	42689 sq ft	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.9258536	-76.71776296	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner of	40075 sq ft	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92602255	-76.71768209	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner	1.73ac	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.9262112	-76.71767821	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner	17424 sq ft	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92567712	-76.71886089	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner	12632 sq ft	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92567888	-76.71859351	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner	16117 sq ft	both				
6.6.4 - Water Quality Filter	York Township	200 - Unnamed Tributary Codorus Creek	39.92568198	-76.71837448	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	29/08/2015	Yes	Property Owner	20473 sq ft	both				
6.4.8 - Vegetated Swale	York Township	200 - Unnamed Tributary Codorus Creek	39.92666312	-76.71732444	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	31/08/2015	Yes	Property Owner	4.80ac	both				
6.4.8 - Vegetated Swale	York Township	200 - Unnamed Tributary Codorus Creek	39.92567789	-76.71906655	30/04/2012	PAG2006708075	Per O&M agr.	Per O&M agr.	31/08/2015	Yes	Property Owner	12632 sq ft	both				
	<u>`</u>					Note- The BMPs are only for the Specialty Hospital portion	·	· ·			of Sum of 19 above =	24	28.4				
						of the property. Sum Drainage area is for entire site.					Sum of 15 above =	24	20.4				
6.4.3 - Subsurface Infiltration Bed	York Township	East Branch Codorus Creek	39.9095042	-76.70236933	31/05/2012	PAG2006711050	Per O&M agr.	Per O&M agr.	27/10/2015	Yes	Property Owner	0.73	0.19	1			
6.6.4 - Water Quality Filter	York Township	East Branch Codorus Creek	39.90969584	-76.70224358	31/05/2012	PAG2006711050	Per O&M agr.	Per O&M agr.	27/10/2015	Yes	of Property Owner	~15246					
6.6.4 - Water Quality Filter	York Township	East Branch Codorus Creek	39.90956384	-76.702612	31/05/2012	PAG2006711050	Per O&M agr.	Per O&M agr.	27/10/2015	Yes	Property Owner	~24394					
6.6.4 Snout	York Township	300 - Unnamed Tributary Codorus Creek	39.9407511	-76.69099546	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	of Property of	~15246 sq.ft.					
6.6.4 Snout	York Township	300 - Unnamed Tributary Codorus Creek	39.93995711	-76.69079151	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	owner Property of	1.46 A					
SWM Facility #1 is a 6.6.X modify existing	York Township	300 - Unnamed Tributary Codorus Creek	39.94234294	-76.6917115	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	owner Property of	4.72 A					
Detention Basin Facility #2 is a 6.4.2 Infiltration Basin 6.6X	York Township	300 - Unnamed Tributary Codorus Creek	39.94140566	-76.69133297	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	owner Property of	~1.93 A					
detention Basin	· · · · · · · · · · · · · · · · · · ·	· '									owner Property of	1.77 A					
6.6.4 Snout	York Township	300 - Unnamed Tributary Codorus Creek	39.9414928	-76.69155161	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	owner Property of						
6.6.4 Snout	York Township	300 - Unnamed Tributary Codorus Creek	39.94157091	-76.69123461	12/3/2012	E&S only	Per O&M agr.	Per O&M agr.	12/3/2012	Yes	owner Property Owner	16,533 sq ft					
6.4.2 - Infiltration Basin	York Township	Barshinger Creek	39.890795	-76.604288	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	of Property Owner	0	6.65	8730			
6.4.3 - Subsurface Infiltration Bed	York Township	Barshinger Creek	39.890579	-76.604318	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	of Property Owner	4.92 ac	#NAME?	20251			
6.4.5 - Rain Garden / BioRetention Bed	York Township	Barshinger Creek	39.890565	-76.603171	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	of Property Owner	0	0.85				
6.4.5 - Rain Garden / BioRetention Bed	York Township	Barshinger Creek	39.890322	-76.603415	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	of	0	0.38				
6.8.1- Level Spreader	York Township	Barshinger Creek	39.890453	-76.603019	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	Property Owner of	0	0.85				
6.8.1- Level Spreader	York Township	Barshinger Creek	39.89033	-76.603052	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	Property Owner of	0	0.38				
6.7.1 - Riparian Forest Buffer	York Township	Barshinger Creek	39.889566	-76.602826	10/11/2011	PAG2006710037	Per O&M agr.	Per O&M agr.	13/05/2016	Yes	Property Owner of	2.861	27.69	509260			
6.6.4 - Water Quality Filter (sum of 6)	York Township	Unnamed Tributary Mill Creek	39.931756	-76.68565	1/5/2015	PAG02006712043	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	0.648	0.111	NA			
6.4.3 - Subsurface Infiltration Bed (Sum of 2)	York Township	Unnamed Tributary Mill Creek	39.931756	-76.68565	1/5/2015	PAG02006712043	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	0.981	0.145				7199
Street Sweeping	York Township	Unnamed Tributary Mill Creek	39.931756	-76.68565	1/5/2015	PAG02006712043	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	0.648	0	27578.88			
Street Sweeping	York Township	Unnamed Tributary Mill Creek	39.931756	-76.68565	1/5/2015	PAG02006712043	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	0.037	0	1574.72			
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.929436	-76.694533	1/5/2015	PAG02006712049	Per O&M agr.	Per O&M agr.	1/5/2016	Yes	Property Owner of	0.71	0.31				12634
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.929436	-76.694533	1/5/2015	PAG02006712049	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	3.29	1.16				5280
6.6.4 - Water Quality Filter (sum of 8)	York Township	Unnamed Tributary Mill Creek	39.929436	-76.694533	1/5/2015	PAG02006712049	Per O&M agr.	Per O&M agr.	1/5/2015	Yes	Property Owner of	various	various	97% of site sum.			
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.932464	-76.684384	1/9/2016	PAG02006712049	Per O&M agr.	Per O&M agr.	1/9/2016	Yes	Property Owner of	0.36	0.1	5500			3762
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.932464	-76.684384	1/9/2016	PAG02006712049	Per O&M agr.	Per O&M agr.	1/9/2016	Yes	Property Owner of	0.33	0.15	1690			3086
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.932464	-76.684384	1/9/2016	PAG02006712049	Per O&M agr.	Per O&M agr.	1/9/2016	Yes	Property Owner of	0.61	0.06	6497			6678
6.4.3 - Subsurface Infiltration Bed	York Township	Unnamed Tributary Mill Creek	39.932464	-76.684384	1/9/2016	PAG02006712049	Per O&M agr.	Per O&M agr.	1/9/2016	Yes	Property Owner of	0.31	0.5	4347			2991
				_							Sum of 3 above = Property Owner	1.6	0.81				16517
6.4.2 - Infiltration Basin 1b	York Township	Unnamed Tributary Codorus Creek	39.938517	-76.695407	23/12/2013	PAG2006708030	Per O&M agr.	Per O&M agr.	23/12/2013	Yes	of	0.27	0.235	1			13299
6.6.3 - Dry Extended Detention Basin 1A	York Township	Unnamed Tributary Codorus Creek	39.938517	-76.695407	23/12/2013	PAG2006708030	Per O&M agr.	Per O&M agr.	23/12/2013	Yes	of	1.71	0.46	1		Includes devices	
6.6.3 - Dry Extended Detention Basin 3	York Township	Unnamed Tributary Codorus Creek	39.938517	-76.695407	23/12/2013	PAG2006708030	Per O&M agr.	Per O&M agr.	23/12/2013	Yes	Property Owner of	0.88	0.787	1		Includes dry ext. above>	17329
5.9.1 - Streetsweeping	York Township	Unnamed Tributary Codorus Creek	39.938517	-76.695407	23/12/2013	PAG2006708030	Per O&M agr.	Per O&M agr.	23/12/2013	Yes	Property Owner of		1.6 assumed				

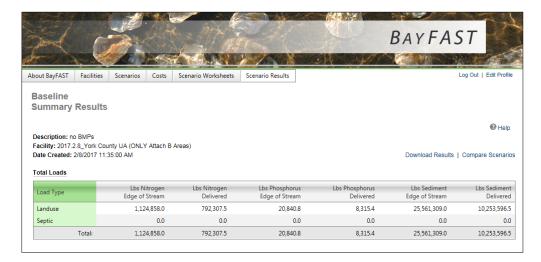
		Location				Installation		O&M			Drainage Are	ea (acres)		BMP Information	
BMP Type/Description (DEP Manual)	Municipality	Watershed	Latitude	Longitude	Date	NPDES Permit #	Activities	Frequency	Last inspection Date	BMP Functioning? Responsible person/agency fi inspections	or Impervious	Pervious		Restoration Stream Buffer gth (LF) Width & Length (LF)	Trench L/W/D (CF)
Department of Defense - Larry Dolinger															
Sediment Trap II, Bldg. 87					1995	PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye		1.1	1.9	0.330 Acre-Fe		
Rip Rap Bank Stabilization	-					PAG-13 3590 PAG-13 3590	per BMP manual per BMP manual	per BMP manual per BMP manual	3/9/2015 ye 3/9/2015 ye		0.4	0.0	Linear F 0.087 Linear F		
Rip Rap Swale E. Bldg. 57 Swale W of Bldg. 2001	1					PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye		0.8	1.4	0.233 Linear F		
Riparian Buffer Zone around Marsh Run Landfill Site						PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye		10.2	42.3	5.775 Linear F		
Permeable Paver H Ave						PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye		0.0	0.0	0.001 Square		
ermeable Paver G Ave.	-					PAG-13 3590 PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye 3/9/2015 ye		0.0	0.0 1.2	0.000 Square 0.208 Linear F		
wale N of Bldg. 789						PAG-13 3590 PAG-13 3590	per BMP manual per BMP manual	per BMP manual	3/9/2015 ye	1 / 5	0.7	0.0	0.007 Square		
Permeable Paver parking area Circle Drive Mifflin Drive, from the North Gate to Cherry							per BMP manuai	per BIVIP manual	- 	, ,	0.1				
ane					PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye		0.4	3.8	0.462 Linear F			
Stormwater Detention Basin N of BLDG 89, B1				2014	PAG-13 3590	per BMP manual	per BMP manual	9/18/2014 ye	es Larry Dolinger	12.9	1.2	1.600 Acre-Fe	et		
Stormwater Sediment Trap, Bldg 780 T5 Above ID 19				2014	PAG-13 3590	per BMP manual	per BMP manual	9/18/2014 ye	es Larry Dolinger	0.5	0.0	0.055 Acre-Fe	et		
Stormwater Detention, S. of Bldg. 789 Pond B2					2014	PAG-13 3590	per BMP manual	per BMP manual	9/18/2014 ye	es Larry Dolinger	3.0	3.7	1.180 Acre-Fe	et	
Bio retention areas 1-4 at Bldg. 2055					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	1.0	0.3	0.140 Acre		
Reinforced Turf Driveway 1 and 2 at Bldg. 2055					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	, ,	0.0	0.1	0.010 Square		
Gravel Mechanical Yard at Bldg. 2055					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		0.0	0.1	0.010 Square		
Bioswale - D1, D2 at Bldg 780 Bio retention area at Bldg. 780					2015 2015	PAG-13 3590 PAG-13 3590	per BMP manual per BMP manual	per BMP manual	8/1/2015 ye 8/1/2015 ye		0.1	0.4	0.051 Linear F 0.160 Acre	eet	
Underground Infiltration System - 20,000CF Fanks 1-3 and HQ	location information is withheld due to	o security concerns			2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		4.1	2.0	0.670 Cubic Fe	et	
Wet Ponds A10 Detention at HQ Bldg.	1				2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	0.0	0.0	0.000 Acre		
Vet Ponds A20 Detention at HQ Bldg.					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		0.0	0.0	0.000 Acre		
Vet Ponds C10 Detention at HQ Bldg. Vet Ponds C20 Detention at HQ Bldg.	-				2015 2015	PAG-13 3590 PAG-13 3590	per BMP manual per BMP manual	per BMP manual per BMP manual	8/1/2015 ye 8/1/2015 ye		0.9 2.6	0.3 1.2	0.140 Acre 0.420 Acre		
Green Roof at HQ Bldg	1				2015	PAG-13 3590 PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		0.0	2.7	0.300 Acre		
East of the visitor center parking lot, recieves runoff from inspection canopy access drive					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		0.3	0.2	0.056 Acre		
regetated swales draining into bioretention acility west of Mission Drive improvements					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	0.1	0.7	0.097 Acre		
Smaller bioretention facility west of Mission Drive improvements					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	0.2	0.3	0.051 Acre		
West of EDC Building					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	0.3	0.7	0.107 Acre		
Rip Rap bank protection around Marsh Run Landfill Site						PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye	es Larry Dolinger		52.5	Linear F	eet	
Sediment Trap II, Bldg. 789]				2009	PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye			1.8	1.925 Acre-Fe		
Sediment Trap I, Bldg. 789					2009	PAG-13 3590 PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye 3/9/2015 ye		+	1.2	0.1265 Acre-Fe 0.1265 Linear F		
Swale G1 Swale E1					2009	PAG-13 3590 PAG-13 3590	per BMP manual per BMP manual	per BMP manual per BMP manual	3/9/2015 ye 3/9/2015 ye		+	1.2			
Swale S of Ball Field and BLDG 412	1				2003	PAG-13 3590	per BMP manual	per BMP manual	3/9/2015 ye			1.0	0.11 Linear F		
Impervious Urban Surface Reduction from parking lot area at new Bldg. 2055			2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger		0.0	1 N/A				
Wet Ponds and Wetlands Detention at Bldg. 780			2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger		0.0	Acre				
Bioswale - C1 at Bldg 780			2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye			0.0	Linear F	eet			
Hydrodynamic Separator at Bldg. 780					2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye		+ +	0.0	N/A		
Street Sweeping Site Wide	I				2015	PAG-13 3590	per BMP manual	per BMP manual	8/1/2015 ye	es Larry Dolinger	1	0.0	N/A	1	l .

APPENDIX VI

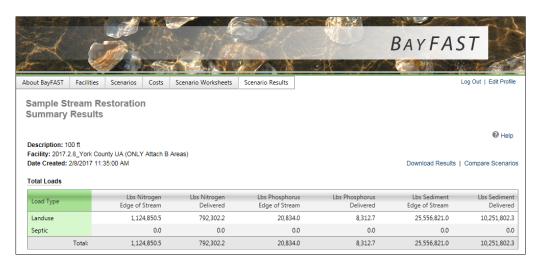
Pollutant Load Reduction Sample Calculations

Simplified Method and BayFAST Calculation Comparison Stream Restoration

BayFAST Baseline Calculation (No BMP Scenario)



BayFAST Sample Calculation: Stream Restoration (100 ft)



Baseline Load (25,561,309 lbs) – Scenario (25,556,821 lbs) = BMP Reduction (4,488 lbs)

Simplified Method Calculation

ВМР Туре	Length (ft)	BMP Effectiveness (lbs/ft/yr)	Pollutant Load Reduction (lbs/yr)
Stream Restoration	100	44.88	4,488

Defense Distribution Center, Susquehanna Anticipated Load Reduction

Fairview Township, York County

The U.S. Department of Defense (DoD) owns and operates one facility within York County. This facility, the Defense Distribution Center, Susquehanna is an 868-acre facility located in Fairview Township. It is regulated by a separate MS4 permit: PAG-133590. In accordance with the MS4 permit, it assumed that this facility will achieve the following pollutant reduction goal during the 5-year permit goal.

Defense Distribution Center, Susquehanna Anticipated Pollutant Load Reduction - 48,180 lbs TSS

The following calculation demonstrates how this pollutant load reduction was estimated.

Facility Name	Aı	rea Drai		inage Area Characteristics (Fairview Twp.)			Loading Rate (lbs/yr)		Total Load
	Total Acres	UA Acres	% Imperv.	Imperv. (acres)	% Pervious	Pervious (acres)	Imperv.	Pervious	(lbs/yr)
Defense Distribution Center, Susquehanna	868	789	28%	221	72%	568	1614.15	220.4	481,803

DoD Facility Total Load TSS lbs/yr:

Required Reduction:

Load reduction anticipated to be achieved during permit term

481,803

481,803

481,80 lbs TSS

When achieved, this pollutant load reduction will be applied towards achieving the overall pollutant reduction goal for York County.

APPENDIX VII

Proposed BMP Project Schedule and Summary Sheets

Regional CBPRP Project Schedule

The implementation schedule for the projects identified in this Regional CBPRP is bounded by the MS4 Permit requirement of a five (5) year completion window. The municipal funding contributions are also based on this timeframe per the Intergovernmental Cooperation Agreement. Non-municipal funding, such as grants and donations, will supplement the municipal money to put the projects on the ground and meet the pollutant reduction goals. The guaranteed collection of funding through annual municipal contributions will enable the expeditious completion of projects. The implementation schedule consists of several strategies that will guide the process.

- Several projects, carried over from the current Regional CBPRP, are in various stages of design, permitting, or construction. These projects are either fully funded or only need minimal gap funding. The initial focus will be on completion of these projects in the first one (1) to two (2) years.
- Another category of projects anticipated to be completed early in the permit cycle is ones needing no permits and/or very little formal design. Several basin retrofits, a tree-planting project, and riparian buffers fit into this category.
- The remaining/bulk of the projects, the majority of which are stream restorations, will take an aggressive "plan of attack" in order to achieve the five (5) year completion date. It is impracticable to assume a detailed schedule for completion of these projects, as the five (5) year horizon will require a strategy using methods uncommon in many municipal project implementation processes. This strategy must be flexible and manageable, and it must be implemented in parallel for multiple projects. Components of this strategy include:
 - ➤ Using a design/build technique that will enable multiple projects to be bid simultaneously for complete implementation is planned. A single contractor would be awarded the bid to tackle all phases of the projects. This technique will be used for BMP projects of a like type located in multiple municipalities or a single municipality. Design/build is more efficient and cost effective than the traditional bid process.
 - Directing early municipal contributions toward the design and permitting of projects located on public land or on private land (with executed landowner agreements). Project sponsors will seek outside funding in parallel for construction. If outside funding is not obtained, construction funds will be available from the municipal contributions.

- Securing necessary landowner agreements to implement projects located on private land.
- Seeking private contractors, through a public/private partnership, who may be willing to complete projects without immediate compensation, knowing that the Intergovernmental Cooperation Agreement ensures the collection of a specified amount of money over a five-year period. They would be putting their private money upfront to jumpstart project implementation.
- Pursuing the feasibility of obtaining a watershed permit from DEP. Such a permit would enable an expedited implementation schedule and be particularly beneficial to regional projects.

Overall, the project completion schedule is guided by the approximately \$13 million dollars that will be collected in equal installments over five (5) years to complete the projects identified in the Plan within those five (5) years. The strategy set forth above will be implemented by the participating municipalities acting as one York County Stormwater Consortium. They will communicate and cooperate to get the job done. However, permitting has had the largest influence upon implementing projects to date. Having permits issued in a timely manner during the course of the 2018-2023 Permit will be necessary to meet the pollutant reduction goals.

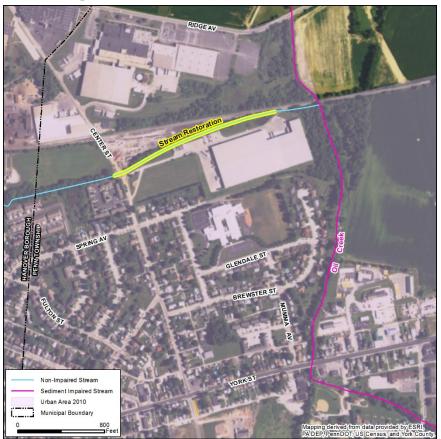
In addition, to implementing the specific projects set forth on Tables 8A-8D and 9A-9D, stormwater BMP partnerships with PennDOT and the Defense Distribution Center, Susquehanna, which are both non-municipal MS4s, as well as with Kinsley properties and other industrial permittees, will be pursued. Non-municipal MS4s and industrial permittees were not parsed out of the Regional CBPRP.

On the following Project Summary Sheets, the Secured Funding includes grants or other funding secured for the project. It does not include any funding to be provided by the York County Stormwater Consortium to implement the Regional CBPRP.

Page 87 Timeline: Mid Lat/Long: 39.805983 / -76.965563

Center Street Streambank Restoration

Stream Restoration Penn Twp.



General

Ownership: Public Secured Funding: No Designs: Yes Watershed: Codorus Creek NPDES Permit req.: Yes Impaired Stream:

Unnamed Trib to Oil Creek (TSS)

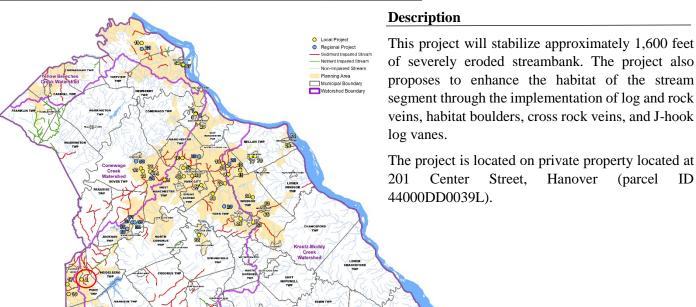
Stream Restoration Length (ft): 1,600

Cost (\$) 480,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 71,808

Cost (\$) / lb 6.68



Notes

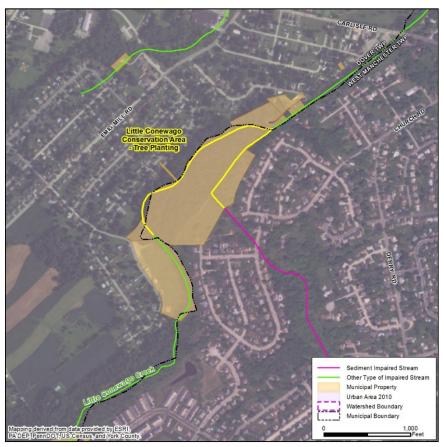
Aquatic Resource Restoration Company (ARRC) is the contractor for the project. Application for a GP-3 Permit was submitted to PA DEP.

Lat/Long: 39.976160 / -76.814700

West Manchester Tree Planting

Tree Planting

West Manchester Twp.



General

Ownership: Public/Private Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.:

Impaired Stream:

Little Conewago Creek (TSS) Unnamed Trib to Little Conewago Creek

(TSS)

Tree planting area:

Length (ft) 2,400 ft Area (acres) 4 ac

Cost (\$) 3,120

Pollutant Load Reduction TSS (lbs/yr)

Tree Planting 495

Cost (\$) / lb 6.30



This project will occur in the vicinity of regional project 24 (Dover Twp./West Manchester Twp. Stream Restoration). This project proposes to plant approximately 2,400-linear feet of stream with live stakes in the Little Conewago Conservation Area.

5

West Manchester Bioswale

Swale Retrofit West Manchester Twp.



General

Ownership: Public/Private
Secured Funding: No
Designs: No
Watershed: Conewago Creek
NPDES Permit req.: Yes

Impaired Stream:

Unnamed Trib to Little Conewago Creek (TSS)

Bioswale Restoration:

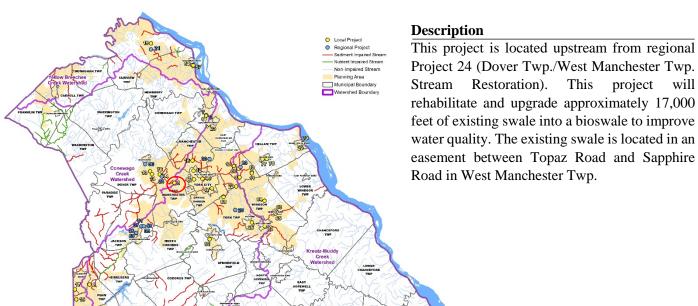
Drainage Area (acres): 7.8

Cost (\$) 22,039

Pollutant Load Reduction TSS (lbs/yr)

Bioswale Retrofit 2,341

Cost (\$) / lb 9.41



Page 90 Timeline: Mid

Lat/Long: 40.070680 / -76.723300

Manhaven Manor Retrofit

Basin Retrofit Manchester Boro

6



General

Ownership: Private
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: No
Closest downstream impaired waterway:
Musser Run (TSS)

Basin Retrofit

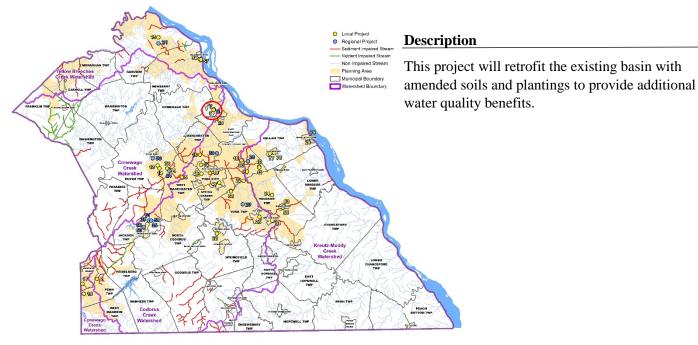
Basin footprint (acres) 0.4 Basin drainage area (acres) 5.56

Cost (\$) 12,000

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 1,669

Cost (\$) / lb 7.19

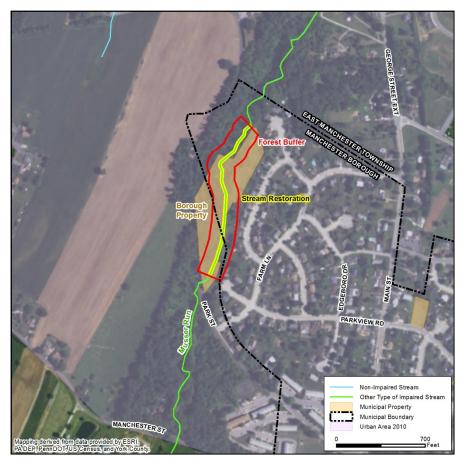


Notes

7,8 Lat/Long: 40.075986 / -76.663254

Musser Run Stream Restoration

Stream Restoration/Forest Buffer Manchester Borough



General

Ownership: Public/Private Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: Yes Impaired Stream: Musser Run (TSS)

(8) Stream Restoration (ft): 1,200

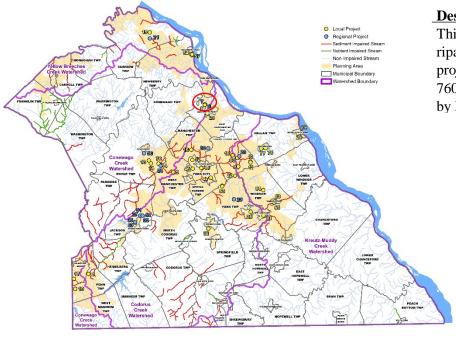
(7) Forest Buffer (acres): 0.8

Cost (\$) 360,000

Pollutant Load Reduction

TSS (lbs/yr) (8) Stream Restoration: 53,856 (7) Riparian Buffer: 284 Total 54,140

Cost (\$) / lb 6.65



Description

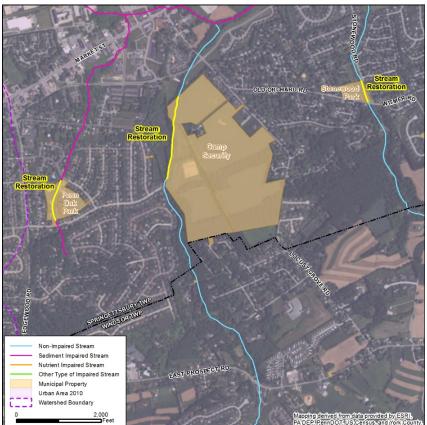
This project includes stream restoration and riparian buffer planting along Musser Run. The project area is located within property parcel ID 76000010051P000000 (Crossings Way) owned by Manchester Boro.

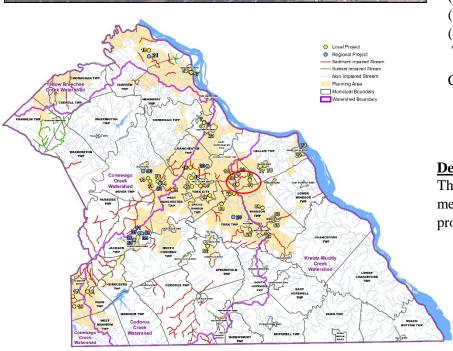
9,10,11

Timeline: Mid Lat/Long: 39.976227 / -76.616700

Springettsbury Township Park Stream Restorations

Stream Restoration Springettsbury Twp.





General

Ownership: **Public** Secured Funding: No Designs: No Watershed: Kreutz-Muddy Creek NPDES Permit req.: Yes Impaired Stream: Unnamed Tributaries to Kreutz Creek (TSS)

Page 92

Stream Restoration Length (ft):

(9) Penn Oak Park Trib. 1,160 (10) Stonewood Park Trib. 1,000 (11) Camp Security Park Trib. 1,120 Total 3,280 ft

Cost (\$) 984,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr):

(9) Penn Oak Park Trib. 52,061 (10) Stonewood Park Trib. 44,880 (11) Camp Security Park Trib. 50,266 Total 147,207 Cost (\$) / lb 6.68

Description

This project includes streambank stabilization measures at three (3) municipal-owned park properties within Springettsbury Township.

12

Lat/Long: 39.983660 / -76.751140

York City Industrial Park Basin

Basin Retrofit York City



General

Ownership: Private
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Closest downstream impaired waterway:
UNT to Codorus Creek (TSS)

Basin Retrofit

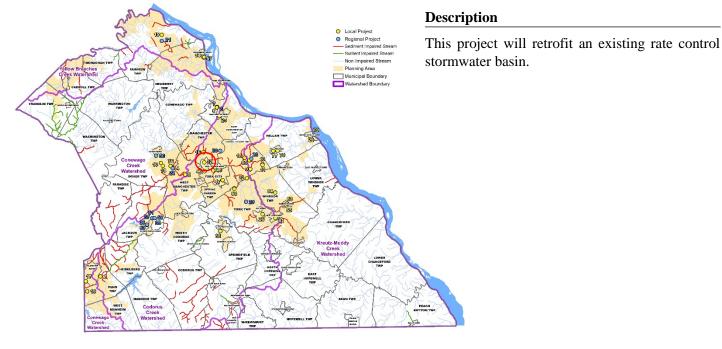
Basin footprint (acres) 2.28 Basin drainage area (acres) 11,738

Cost (\$) 68,400

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 11,738

Cost (\$) / lb 5.83



Notes

Ownership issues and maintenance responsibility would need to be resolved with the design work to provide a solid O&M plan post-construction work.

Lat/Long: 39.983460 / -76.839720

Wyngate Detention Basin

Basin Retrofit Dover Township



General

Ownership: **Public** Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: Yes Closest downstream impaired waterway: Unnamed Trib to Fox Run (TSS)

Basin Retrofit

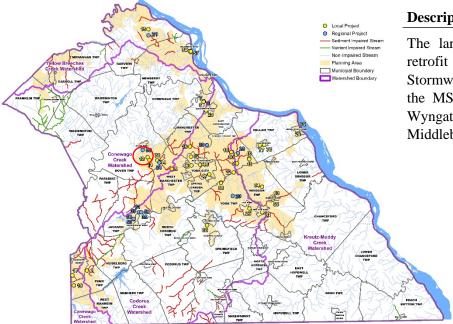
Basin footprint (acres) 0.49 Basin drainage area (acres) 40

Cost (\$) 14,700

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 12,034

Cost (\$) / lb 1.22



Description

The large drainage area associated with this basin retrofit project is due to the layout of the MS4. Stormwater from the following streets is conveyed via the MS4 to the detention basin: Rock Creek Drive, Wyngate Road, Dunbarton Drive, Tower Drive, and Middleboro Road.

Page 95 Timeline: Long

14 Lat/Long: 39.978870 / -76.836090

Dover Township Community Center

Basin Retrofits Dover Township



General

Public Ownership: Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: Yes Closest downstream impaired waterway: Unnamed Trib to Little Conewago Creek (TSS)

Basin Retrofit (acres)

Basin A footprint	0.4
Basin B footprint	<u>0.38</u>
Total	0.78

Total drainage area to

basins (acres) 20.1

23,400 Cost (\$)

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 6,047

Cost (\$) / lb 3.87



Retrofit of two existing basins at the Dover Township

Community Center. The west basin is on parcel ID #24000JG0081D0 and the east basin in on parcel ID #24000300001A0.

Notes

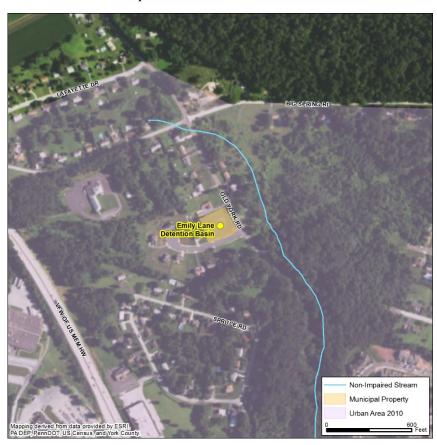
Both basin retrofits are located on public land. The west basin is 50'x350' and the east basin is 70'x235' for a combined basin footprint of 33,950 sq. ft. or 0.78 acres.

Page 96 Timeline: Mid

15

Emily Lane Stormwater Pond

Basin Retrofit Fairview Township



General

Ownership: Public Secured Funding: No Designs: No Watershed: Yellow Breeches Creek NPDES Permit req.: Closest downstream impaired waterway: Unnamed Trib to Fishing Creek (TSS)

Lat/Long: 40.184990 / -76.835700

Basin Retrofit

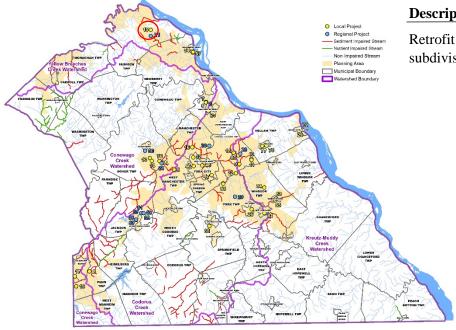
Basin footprint (acres) 0.4 7.02 Basin drainage area (acres)

Cost (\$) 12,000

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 2,104

Cost (\$) / lb 5.70



Description

Retrofit a stormwater pond that is the BMP for a small subdivision.

Timeline:

Timeline: Mid/Long Lat/Long: 39.996089 / -76.731990

Page 97

8.98

Stillmeadow Park Restoration

Description

Stream Restoration, Wetland Restoration, Basin Retrofits, Tree Planting

Manchester Township General Ownership: Public/Private Secured Funding: No Designs: No Watershed: Codorus Creek NPDES Permit req.: Yes Impaired Stream: UNT to Codorus Creek (TSS) Stream Restoration Length (ft): Segment 1 - park property 2,100 Segment 2 - downstream from park (partially private property) 1,000 Segment 3 - north of park (partially private property) 750 Wetland Restoration (acres): Pocket 1 - park property 3.0 Pocket 2 - downstream from park (partially private property) 1.5 Tree Planting (acres): Planting area - park property 0.25 Other Type of Impaired Stream Basin Retrofit (acres): Urban Area 2010 Watershed Boundary Upstream Basin - private property 0.6 South Basin - private property 0.7 Park Basin - park property 0.4 Church Basin - private property 0.5 Cost (\$) 2,348,841 Pollutant Load Reduction TSS (lbs/yr): 94,248 Stream Restoration Segment 1 **Stream Restoration Segment 2** 44,880 **Stream Restoration Segment 3** 33,660 Wetland Pocket 1 55,604 Wetland Pocket 2 11,260 Tree Planting 85 Basin Retrofit (Upstream) 12,064 Basin Retrofit (South) 6,017 Basin Retrofit (Park) 1,647 Basin Retrofit (Church) 2,102 Total 261,567

The Stillmeadow Park Resotration project will include: three (3) segments of stream restoration along two (2) unnamed tributaries to the Codorus Creek, two (2) wetland restoration areas along the Codorus Creek tributary that runs through Stillmeadow Park, an area of tree planting, and four (4) detention basin retrofits. The basin retrofits will retrofit existing basins with bioretention features including amended soils and plantings to improve water quality.

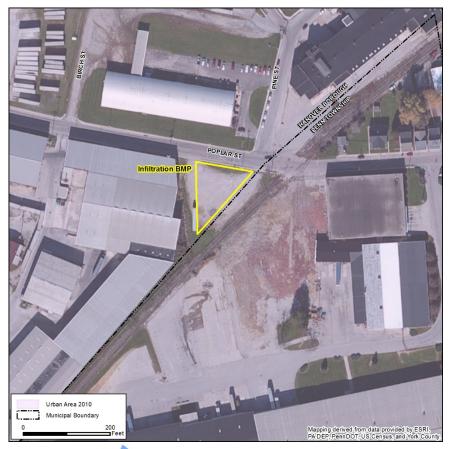
Cost (\$) / lb

Page 98 Timeline: Mid

17 Lat/Long: 39.798227 / -76.984730

Poplar Street Swale Retrofit

Swale Retrofit Hanover Boro



General

Private Ownership: Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: No Closest downstream impaired waterway: Plum Creek (TSS)

Infiltration BMP

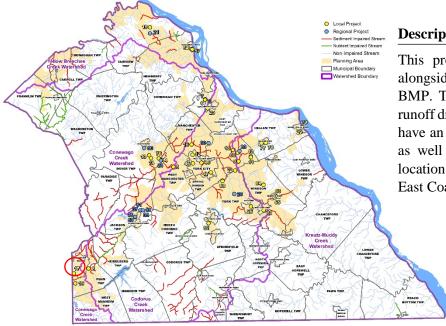
BMP footprint (acres) 0.5 BMP drainage area (acres) 32.4

Cost (\$) 15,000

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 13,503

Cost (\$) / 1b 1.11



Description

This project will replace an existing swale located alongside a borough-owned building with an infiltration BMP. The existing swale is undersized to handle the runoff draining to the site. The new infiltration BMP will have an increased storage capacity to alleviate flooding as well as provide water quality benefits. The BMP location is Parcel ID: 670000901970000000 owned by East Coast Commercial Real Estate LLC.

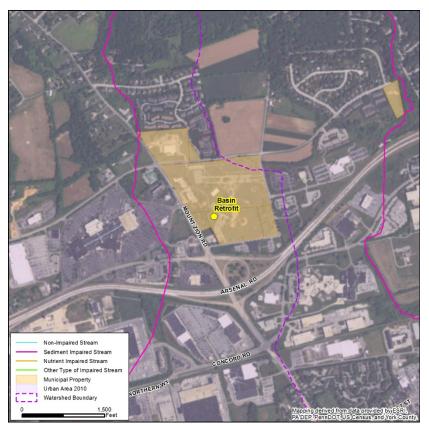
Page 99
Timeline: Mid

Lat/Long: 39.989769 / -76.663630

Springettsbury Municipal Campus

Basin Retrofit Springettsbury Twp.

18



General

Ownership: Public
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Impaired Stream: Unnamed Tributary
to Mill Creek (TSS)

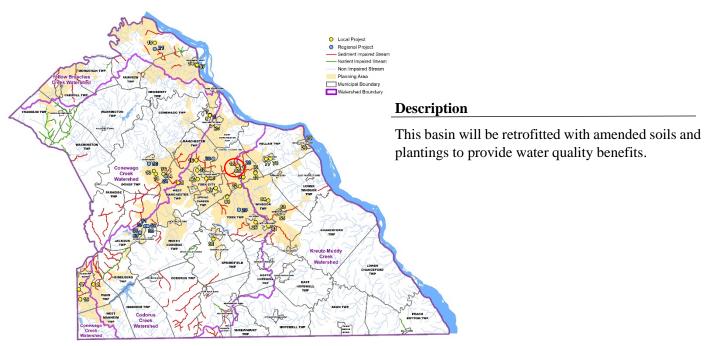
Basin Retrofit

Basin footprint (acres): 0.45
Basin drainage area (acres): 15
Cost (\$) 13,500

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 4,512

Cost (\$) / 1b 2.99



Notes

Timeline: Mid

Lat/Long: 39.862050 / -76.986188

Page 100

Homewood Streambank Restoration

Stream Restoration Penn Twp.

19



General

Ownership: Private Secured Funding: No Designs: Yes Watershed: Conewago Creek NPDES Permit req.: Yes

Impaired Stream:

Unnamed Trib to Plum Run (pathogens)

Stream Restoration Length (ft):

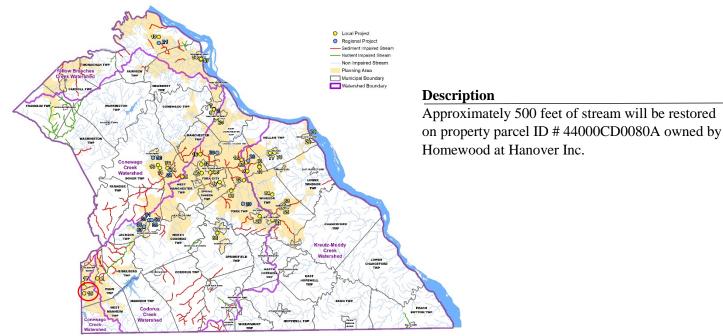
Homewood at Hanover 500

Cost (\$) 150,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 22,440

Cost (\$) / lb 6.68



Aquatic Resources Restoration Company (ARRC) is the contractor for the project. Application for a permit was submitted to PA DEP.

20

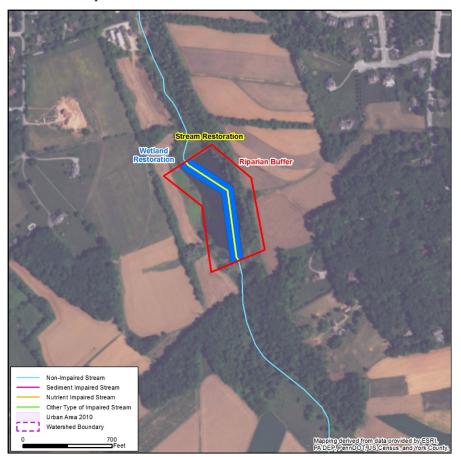
Lat/Long: 39.923280 / -76.668200

Page 101

Timeline: Long

York Twp. Private Property Owner Project

Kehm Run Stream Restoration/Reconstructed Wetland/Forested Riparian Buffer York Twp.



General

Ownership: Private
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req: Yes
Stream Name: Unnamed Trib to Mill
Creek (non-impaired)

Closest downstream impaired stream:

Mill Creek (TSS)

Distance from project site: 2.5 miles

Stream Restoration Length (ft): 1,200 Riparian Buffer Area (acres): 5.5 Reconstructed Wetland Area (acres): 1 Drainage Area to Reconstructed

Wetland Area (acres): 70

Cost (\$) 970,588

Pollutant Load Reduction TSS (lbs/yr)

Stream Restoration:53,856Riparian Buffer:1,956Reconstructed Wetland:19,450Total75,262

Cost (\$) / lb 12.90

Planning Area Municipal Boundary Watershed Boundary This project is the removal of the Kehm

ient Impaired Stream

Run Dam. After the dam is removed, the natural drainage pathways (stream and wetland areas) will be restored. Approximately 5.5 acres of riparian buffer will be installed along the restored stream channel. This project is located entirely on private property.

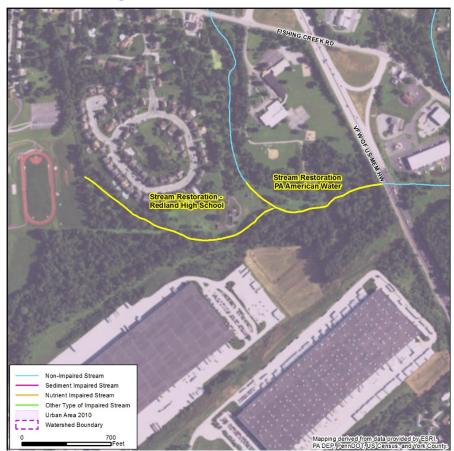
Notes

Page 102 Timeline: Long

21 Lat/Long: 40.179534 / -76.803554

Red Land High School Stream Restoration

Stream Restoration Fairview Twp.



General

Ownership: Public/Private Secured Funding: No Designs: No Watershed: Yellow Breeches Creek NPDES Permit req.: Stream Name: Unnamed Trib to Fishing Creek (non-impaired)

Closest downstream impaired stream:

Unnamed Trib Fishing Creek (TSS) Distance from project site: 0.15 miles

Stream Restoration Length (ft):

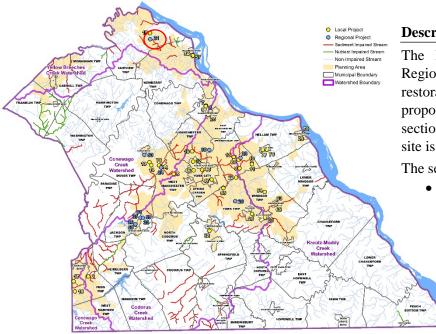
Red Lands High School 1,700 PA American Water 1,200 Total 2,900 ft 870,000 Cost (\$)

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr):

Red Lands High School 76,296 PA American Water 53,856 Total 130,152

Cost (\$) / lb 6.68



Description

The Red Land High School Stream Restoration Regional Project includes two (2) sections of stream restoration. The sections of the UNT to Fishing Creek proposed for restoration are not impaired, however the section of the tributary downstream from the project site is impaired for siltation.

The sections of stream proposed for restoration are:

1,700 ft of stream at Red Land High School, property parcel number 27000QF0145A000000 owned by the West Shore School District; and

> 1,200 ft of stream east of Red Land High School within a PA American Water easement near I-83.

Lat/Long: 39.909820 / -76.660390

Page 103

Timeline: Mid

York Twp. Pond Retrofit

Basin Retrofit York Township



General

Ownership: Public/Private
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Closest downstream impaired waterway:
Unnamed Trib to Mill Creek (TSS)

Basin Retrofit

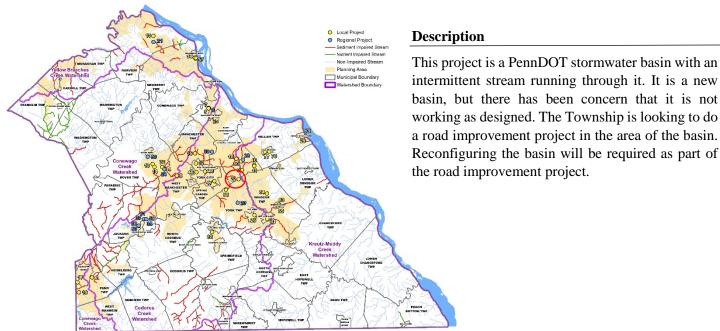
Basin footprint (acres) 0.3 Basin drainage area (acres) 5

Cost (\$) 9,000

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 1,498

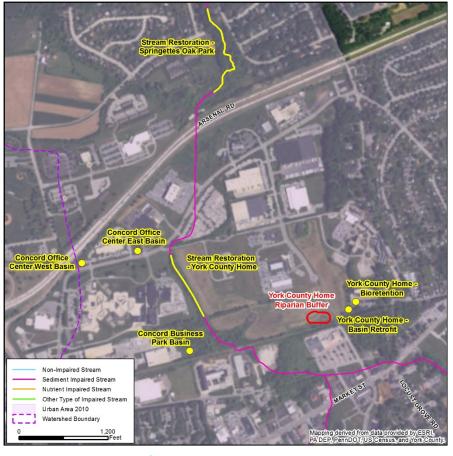
Cost (\$) / lb 6.01



Notes

East York P3

Stream Restoration/Basin Retrofits/Bioretention/Forest Buffer Springettsbury Twp.



Planning Roundary Villow Bright Stream Non-Impaired Stream Non-Im

General

Ownership: Public/Private
Secured Funding: No
Designs: No
Watershed: Kreutz-Muddy Creek
NPDES Permit req: Yes
Impaired Stream:

Unnamed Trib Kreutz Creek (TSS)

Stream Restoration Length (ft):

Springettes Oak Park 1,900 ft
York County Home 700 ft
Total 2,600 ft

Riparian Buffer Area (acres):

York County Home 1.53 ac

Bioretention

Basin footprint (acres): 0.04 ac Drainage area (acres): 0.63 ac

Basin Retrofits:

Concord Business Park

Basin footprint (acres): 0.21 ac Drainage area (acres): 13 ac Concord Office Center – East Basin

Basin footprint (acres): 0.14 ac
Drainage area (acres): 1.02 ac

Concord Office Center – West Basin
Basin footprint (acres): 0.18 ac
Drainage area (acres): 1.13 ac

York County Home

Basin footprint (acres): 0.05 ac Drainage area (acres): 0.5 ac

Cost (\$) 851,142

Pollutant Load Reduction

I ondiant Boad Reduction	
Stream Restoration:	TSS (lbs/yr)
Springettes Oak Park	85,272
York County Home	31,416
Forest Buffer	543
Bioretention	185
Basin Retrofits:	
Concord Business Park	3,911
Concord Office Center - East Basin	a 304
Concord Office Center - West Basi	n 340
York County Home	144
Total	122,115

*Page 105*Timeline: Long
Lat/Long: 39.986048 / -76.647472

Time
Lat/Long: 39.986048 / -

Description

The East York P3 Regional Project includes the following BMPs:

- Two sections of stream restoration of an unnamed tributary the Kreutz Creek (impaired siltation)
 - ✓ 1,900 ft (approx.) in Springettes Oak Park.
 - ✓ 700 ft (approx.) along the western border of the York County Home property.
- Four detention basin retrofits
 - ✓ The Kinsley Concord Business Park basin treats a 13-acre drainage area.
 - ✓ The Kinsley Concord Office Center (east basin) basin treats a 1.02-acre drainage area.
 - ✓ The Kinsley Concord Office Center (west basin) basin treats a 1.13-acre drainage area.
 - ✓ The York County Home basin treats a 0.5-acre drainage area.
- One bioretention basin
 - ✓ The proposed bioretention basin at the York County Home will treat a 0.63-acre drainage area.
- One riparian buffer area
 - ✓ The riparian buffer area will be approximately 50-feet wide and stretch for approximately 1,300 around the perimeter of the existing York County Home pond.

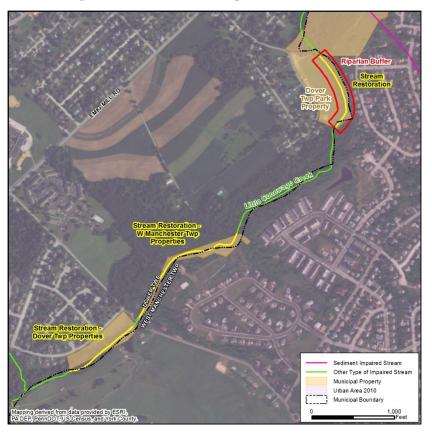
Page 106 Timeline: Mid/Long

Lat/Long: 39.965795 / -76.816194

Dover Twp./West Manchester Twp. Stream Restoration

Stream Restoration/Forest Buffer Dover Twp. & West Manchester Twp.

24



General

Ownership: Public/Private Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: Yes

Impaired Stream:

Little Conewago Creek (TSS) UNT Little Conewago Creek (TSS)

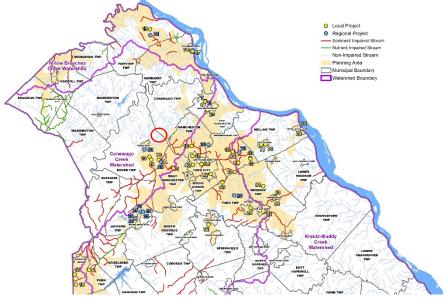
Stream Restoration Length (ft):

Dover Twp. Park 1.000 Little Conewago Conserv. Area UNT Little Conewago Creek 1,230 Little Conewago Creek 1,800 Dover Twp. Properties 1.000 West Manchester Properties 1,800 7,310 ft Total

Forest Buffer Area (acres):

Dover Twp. Park 0.8

2,193,000 Cost (\$)



Pollutant Load Reduction TSS (lbs/yr)

Stream Restoration Dover Twp. Park 44,880 Little Conewago Conserv. Area 102,326 Dover Twp. Properties 44,880 80,784 West Manchester Properties Total 328,073

Forest Buffer

Dover Twp Park 284

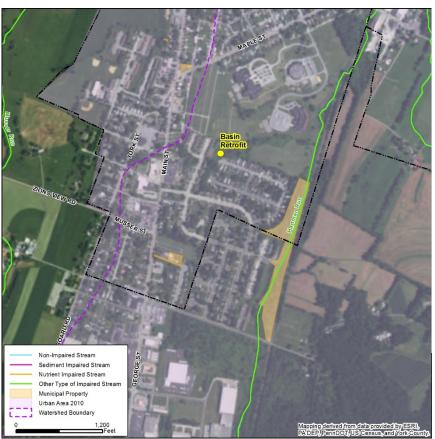
Cost (\$) / lb 6.68

Description

This regional project includes areas of stream restoration along Little Conewago Creek (impaired TSS) and an unnamed tributary to the Little Conewago Creek (impaired TSS). These sections of stream stabilization are anticipated to include in-stream stabilization measures and outfall stabilization along the streambank.

Dauberton HOA Basin Retrofit

Basin Retrofit Manchester Boro



General Private Ownership: Secured Funding: No Designs: No Watershed: Codorus Creek NPDES Permit req.: No Closest downstream waterway:

Hartman Run (not impaired)

Basin Retrofit

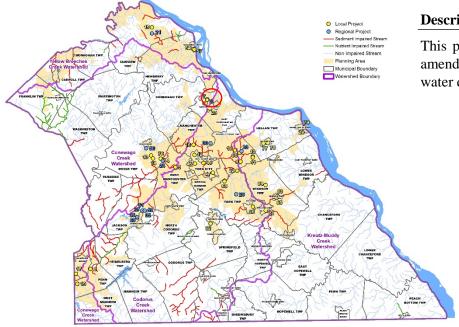
0.6 Basin footprint (acres) Basin drainage area (acres) 5.5

Cost (\$) 18,000

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 1,647

Cost (\$) / lb 10.93



Description

This project will retrofit the existing basin with amended soils and plantings to provide additional water quality benefits.

Notes

Page 108 Timeline: Mid

26 Lat/Long: 39.883884 / -76.525611

Dallastown Basin Retrofit

Basin Retrofit Dallastown Boro



General

Public/Private Ownership: Secured Funding: No Designs: No Watershed: Codorus Creek NPDES Permit req.: Yes Closest downstream impaired waterway: Barshinger Creek (impaired TSS)

Basin Retrofit

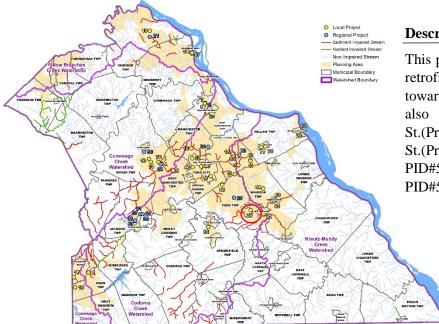
Basin footprint (acres) 1 5.5 Basin drainage area (acres)

30,000 Cost (\$)

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 1,647

Cost (\$) / 1b 18.21



Description

This project will improve stormwater runoff quality by retrofitting an existing basin. The basin is located towards the bottom of Hobbs Avenue. The retrofit will also affect the following parcels: 400 E. Locust PID#560000301960; St.(Private), 125 N. Park St.(Private), PID#5600003019400; ROW (Public) PID#5600030108A0; and 451 E. Maple St.(Private), PID#5600003018000.

Page 109 Timeline: Mid Lat/Long: 40.025350 / -76.534800

Riverfront Park GI Plan (Susq River)

Bioretention Basin #1 Wrightsville Borough



General

Ownership: Public
Secured Funding: Partial
Designs: Yes
Watershed: Kreutz-Muddy Creek
NPDES Permit req.: Yes
Waterway: Susquehanna River

Bioretention Basin #1

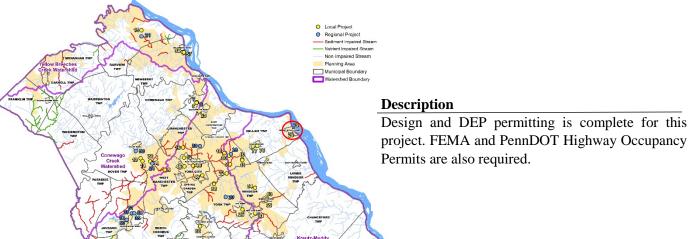
Basin footprint (acres): 0.2 Basin drainage area (acres): 22.6

Cost (\$) 376,350

Pollutant Load Reduction

Bioretention TSS (lbs/yr): 9,415

Cost (\$) / lb 39.97



Notes

Project designed in 2014 by LandStudies using NFWF grant funds. The Borough has applied for a Growing Greener Grant for construction funding. Project is located in Riverfront Park. Secondary benefits are park improvement, reduced flooding, and education opportunities.

Timeline: Mid Lat/Long: 40.001578 / -76.718000

Page 110

York County Solid Waste and Refuse Center

Water Re-use Manchester Twp.



General

Ownership: **Public** Secured Funding: Yes Designs: Yes Watershed: Codorus Creek NPDES Permit req.: Yes Closest downstream impaired waterway: Codorus Creek (TSS)

Water Reuse

Total water volume

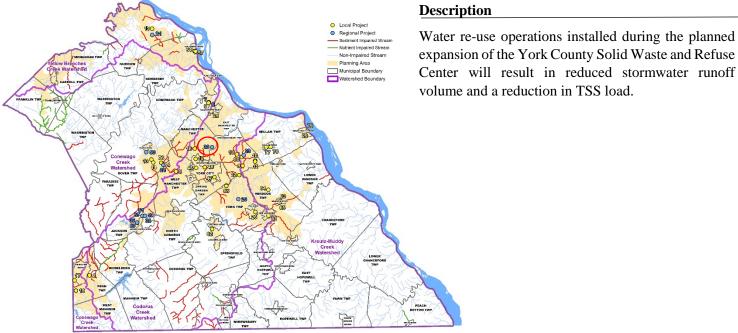
to be re-used (cf) 111,977

0 Cost (\$)

Pollutant Load Reduction

Water Re-use (lbs/yr): 30,440

Cost (\$) / lb 0



Notes

This project is a planned improvement to the York County Solid Waste and Refuse Center. Project will not require YCSWC funding.

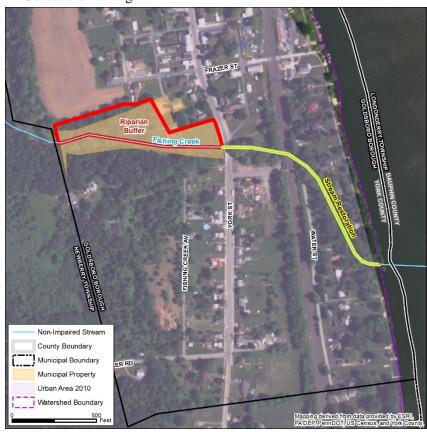
Lat/Long: 40.150080 / -76.751130

Page 111

Timeline: Mid

138 South York Street (Fishing Creek)

Riparian Buffer Goldsboro Borough



General

Ownership: Public Secured Funding: No Designs: No Yellow Breeches Creek Watershed: NPDES Permit req.: Yes Fishing Creek Waterway:

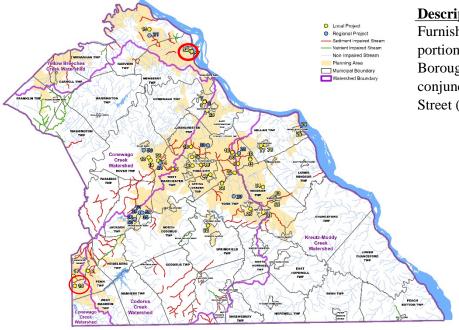
Riparian Buffer Area (ac): 4.83

Cost (\$) 3,767

Pollutant Load Reduction

Riparian Buffer TSS (lbs/yr): 1,717

Cost (\$) / lb 2.19



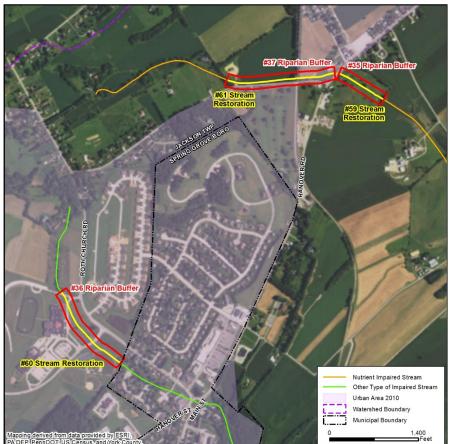
Description

Furnish and install riparian buffer along the portion of Fishing Creek through the Goldsboro Borough Park. Project to be completed in conjunction with Project #57 – 138 South York Street (Fishing Creek) Stream Restoration.

Secondary benefits include – Project located within a public park, accessible to the public and adjacent to a stocked trout stream.

BMPs #1, BMP #2, BMP #3

Stream Restoration/Riparian Forest Buffer Jackson Twp.



General

Ownership: Public/Private
Secured Funding: Partial
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes

Impaired Stream:

Little Creek (Nutrients)

UNT W Br Codorus Creek (Pathogens)

Stream Restoration Length (ft):

 Little Creek (Proj 59)
 800

 UNT W Br Codorus (Proj 60)
 1,325

 Little Creek (Proj 61)
 1,850

 Total
 3,975 ft

Riparian Forest Buffer (acres):

 Little Creek (Proj 35)
 1.65

 UNT W Br Codorus (Proj 36)
 4.48

 Little Creek (Proj 37)
 2.65

 Total
 8.78 acres

Cost (\$) 1,192,500

Pollutant Load Reduction TSS (lbs/yr) Stream Restoration: Little Creek (Proj 59) 35,904 UNT W Br Codorus (Proj 60) 59,466 Little Creek (Proj 61) 83,028 **Total** 178,398 Riparian Buffer: Little Creek (Proj 35) 584 UNT W Br Codorus (Proj 36) 1,593 Little Creek (Proj 37) 939 **Total** 3,116 Cost (\$) / lb 6.57

Lincoln Park

Stream Restoration York City



General

Ownership: Public
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Impaired Stream: Willis Run (TSS)

Stream Restoration Length (ft):

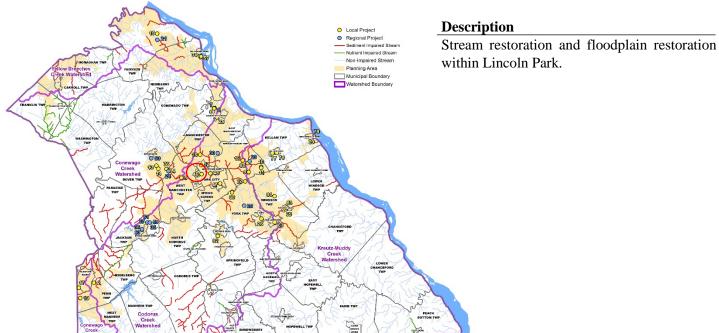
York Twp. 515

Cost (\$) 154,500

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 23,113

Cost (\$) / lb 6.68



Notes

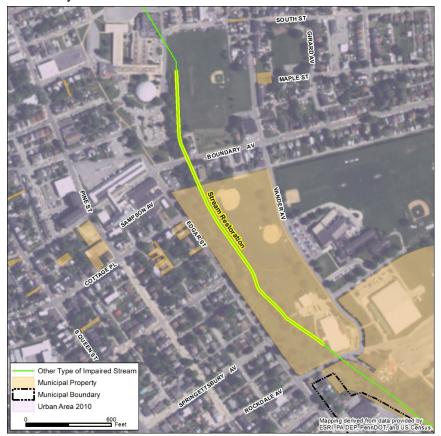
Currently, the stream is eroded and not attractive or integrated into the park infrastructure. This project will improve the park and water quality.

Page 114
Timeline: Long
Lat/Long: 39.955430 / -76.714010

47

Memorial Park

Stream Restoration York City



General

Ownership: Public
Secured Funding: Partial
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Impaired Stream: Unnamed Tributary
to Codorus Creek (TSS)

()

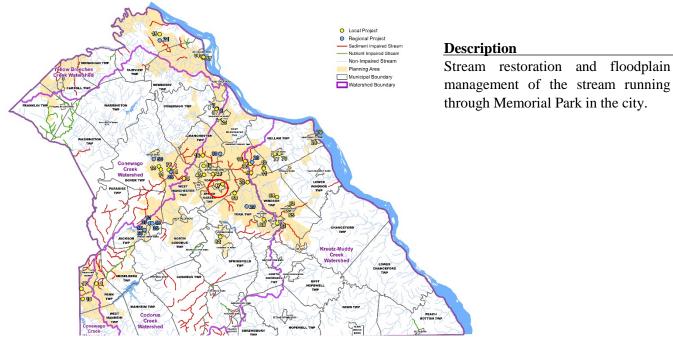
Stream Restoration Length (ft): 2,150

Cost (\$) 645,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 96,492

Cost (\$) / lb 6.68



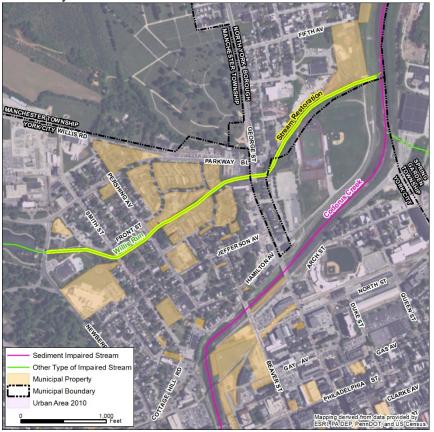
Notes

Project would incorporate the completion of the Broad Street Greenway; School District is a potential partner. City received a PA DEP Local Stormwater BMP Implementation Grant for this project

Farquar Park/Kiwanis Lake

Stream Restoration

York City



General

Ownership: Public
Secured Funding: No
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: Yes
Impaired Stream: Unnamed Tributary

to Willis Run (TSS)

Stream Restoration Length (ft): 3,900

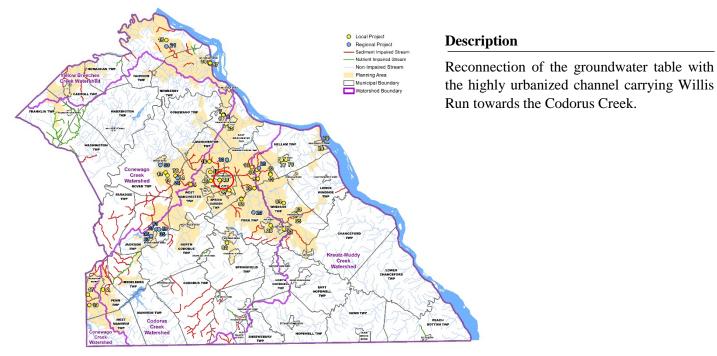
Cost (\$) 1,170,000

Pollutant Load Reduction

Stream Restoration

TSS (lbs/yr): 175,032

Cost (\$) / lb 6.68



Notes

This project should include a walking path to connect the highly urbanized residential areas of the City with the Heritage rail trail system with the stream restoration efforts.

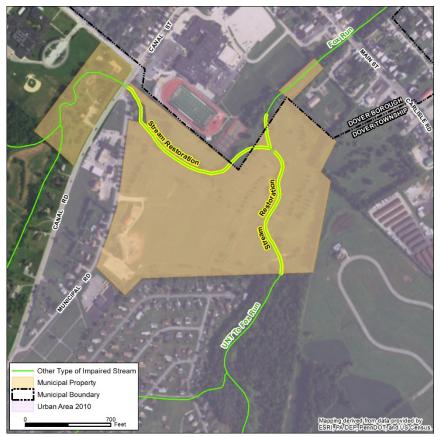
50 Timeline: Long

Lat/Long: 39.995020 / -76.849950

Page 116

Dover Township Park (Old Golf Course)

Stream Restoration Dover Township



General

Ownership: **Public** Secured Funding: No Designs: No Watershed: Conewago Creek NPDES Permit req.: Yes Fox Run (non-impaired) Stream: UNT to Fox Run (non-impaired)

Stream Restoration Length (ft):

Fox Run 1,880 UNT to Fox Run 1,080 Total 2,960

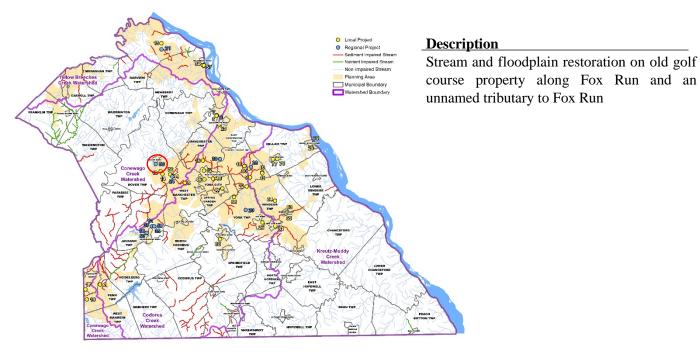
Cost (\$) 888,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr):

Fox Run 84,374 UNT to Fox Run 48,470 Total 132,844

Cost (\$) / lb 6.68



Notes

Preliminary conceptual design and project feasibly report have been completed by LandStudies. Seeking funding from the Transportation Alternatives Set-Aside Program (TASP).

Timeline: Mid

Lat/Long: 40.149400 / -76.748740

Page 117

138 South York Street (Fishing Creek)

Stream Restoration Goldsboro Borough

57



General

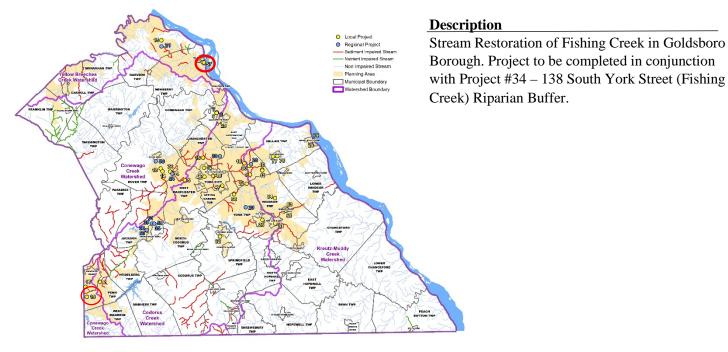
Public/Private Ownership: Secured Funding: Partial Designs: No Watershed: Yellow Breeches Creek NPDES Permit req.: Yes Fishing Creek Stream: Stream Restoration Length (ft): 1,700

Cost (\$) 510,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 76,296

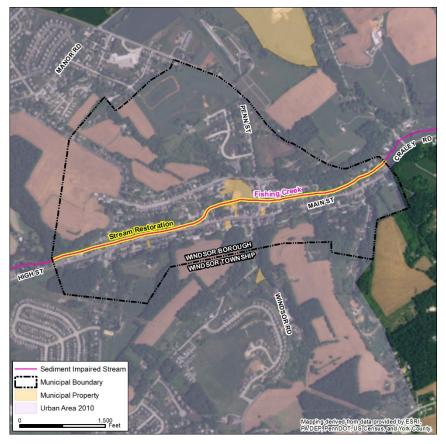
Cost (\$) / lb 6.68



Fishing Creek Study – Stream Restoration

Stream Restoration / Riparian Buffer Windsor Borough

65



General

Ownership: Private
Secured Funding: No
Designs: No
Watershed: Conewago Creek
NPDES Permit req.: Yes
Impaired Stream: Fishing Creek (TSS)

Stream Restoration Length (ft): 6,700

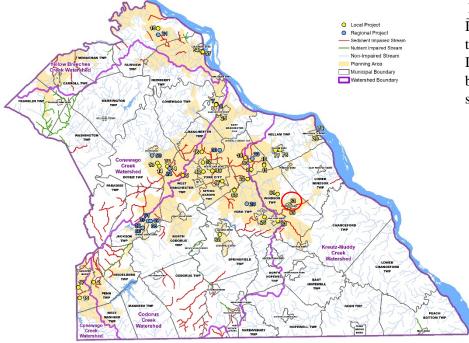
Cost (\$) 2,010,000

Pollutant Load Reduction

Stream Restoration

TSS (lbs/yr): 300,696

Cost (\$) / lb 6.68



Description

Improvements to Fishing Creek through the entire Borough (approx. 6,700 LF). Improvements will include planting buffers, filtering practices, and stream stabilization measures.

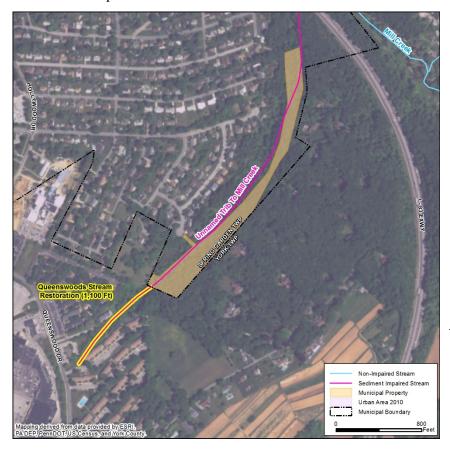
Notes

This project will involve PADEP General permits and possibly a NDPES permit. The ACOE is currently conducting a preliminary study of the entire creek corridor through the Borough to detyermine whether it is qa worthy project additional funding for detailed design.

Queenswood Improvements

Stream Restoration York Township

68



General

Ownership: Public Secured Funding: No Designs: No Watershed: Codorus Creek NPDES Permit req.: Yes Impaired Stream: **Unnamed Tributary**

to Mill Creek (TSS)

Stream Restoration Length (ft):

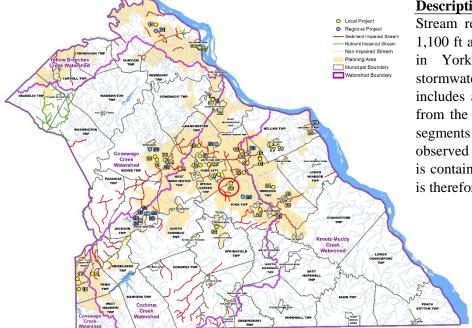
York Twp. 1,100

Cost (\$) 330,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 49,368

Cost (\$) / lb 6.68



Description

Stream restoration is planned for approximately 1,100 ft along an impaired tributary to Mill Creek in York Township. This tributary receives stormwater runoff from a large drainage area that includes a significant amount of impervious area from the Queenswoods Shopping Plaza. Multiple segments of highly-eroded streambank were observed during a field visit to the site. The stream is contained within a sanitary sewer easement and is therefore relatively easily accessible.

Danielle & Willpa Drives

Stream Restoration
Dover Township



General

Ownership: Private
Secured Funding: Yes
Designs: No
Watershed: Conewago Creek
NPDES Permit req.: Yes
Impaired Stream: Unnamed Tributary
to Little Conewago Creek (pathogens)

Stream Restoration Length (ft):

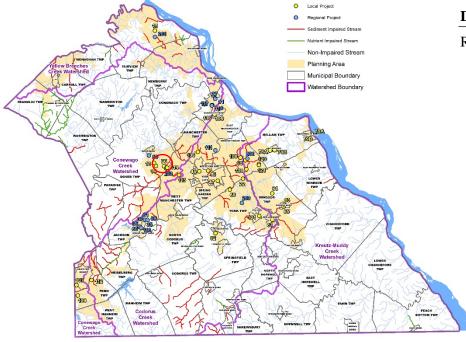
York Twp. 800

Cost (\$) 240,000

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 35,904

Cost (\$) / lb 6.68



Description

Restoration of 800 feet of stream.

Notes

Page 121 Timeline: Long

77 Lat/Long: 40.000340 / -76.609930

Beaver Street Swale Restoration

Swalw Restoration / Wetland Restoration Hallam Borough



General

Ownership: Public/Private Secured Funding: No Designs: No Watershed: Kreutz-Muddy Creek NPDES Permit req.: Yes Stream: Unnamed Trib to Kreutz Creek

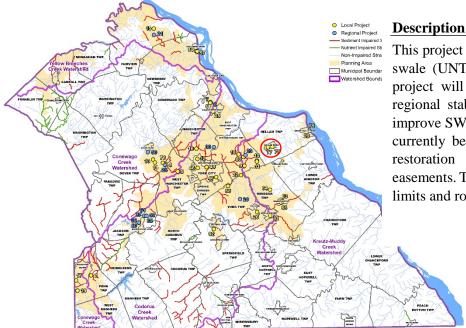
Stream Restoration Length (ft): 795 Wetland Restoration Area (acres): 2.0

Cost (\$) 739,676

Pollutant Load Reduction

Stream Restoration TSS (lbs/yr): 35,680 Wetland Restoration TSS (lbs/yr): 1,908 Total 37,588

Cost (\$) / lb 19.68



This project includes restoration of 795 feet of drainage swale (UNT of Kreutz Creek) in two segments. The project will stabilize the immediate system, provide regional stabilization and water quality benefits, and improve SWM conditions. This portion of the project is currently being designed and permitted. The wetland restoration is still a possibility, but will require easements. This portion of the project will depend on the limits and route of the restored swale/stream.

The YCSWC has awarded \$82,0000 for this project; of which up to \$20,000 can be used for design.

Lat/Long: 40.000640 / -76.600820

Restoration of Kreutz Creek

Stream Restoration Hallam Borough



General

Public Ownership: Secured Funding: No Designs: No Watershed: Kreutz-Muddy Creek NPDES Permit req.: Yes Kreutz Creek Stream:

Stream Restoration Length (ft)

Kreutz Creek: 6,000

1,800,000 Cost (\$)

Pollutant Load Reduction

Stream Restoration

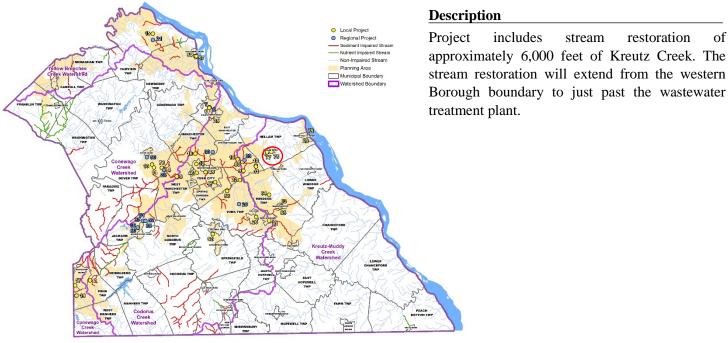
includes

TSS (lbs/yr): 269,280

Cost (\$) / lb 6.68

stream

restoration



Notes

Lat/Long: 40.025350 / -76.534800

Page 123

Timeline: Short

Riverfront Park GI Plan

Bioretention Basin #2, Bioswale #2 Wrightsville Borough



General

Ownership: Public Secured Funding: Yes Designs: Yes Watershed: Kreutz-Muddy Creek NPDES Permit req.: Yes Waterway: Susquehanna River

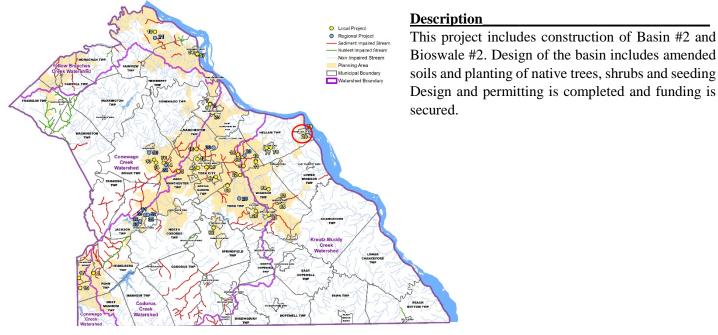
Bioretention Basin #2 and Bioswale #2
Basin footprint (acres): 0.1
Basin drainage area (acres): 11.9

Cost (\$) 250,000

Pollutant Load Reduction

Bioretention TSS (lbs/yr): 4,875

Cost (\$) / lb 51.28



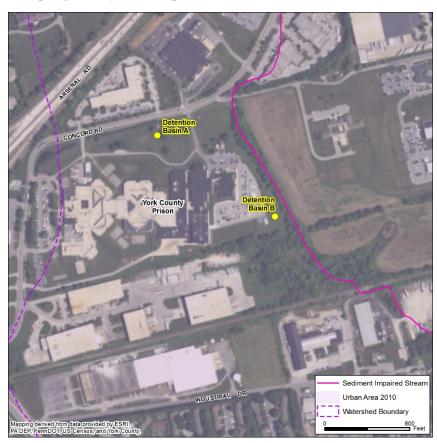
Notes

Project designed in 2014 by LandStudies using NFWF grant funds. All permits are in hand. Project is located in Riverfront Park. Secondary benefits are park improvement, reduced flooding, and educational opportunities.

Page 124
Timeline: Short
Lat/Long: 39.986020 / -76.658700

Prison Property SW Fac Upgrade

Basin Retrofits (2) Springettsbury Township



General

Ownership: Public
Secured Funding: Yes
Designs: No
Watershed: Kreutz-Muddy Creek
NPDES Permit req.: Yes
Closest downstream impaired waterway:
Unnamed Trib to Kreutz Creek (TSS)

Basin Retrofits

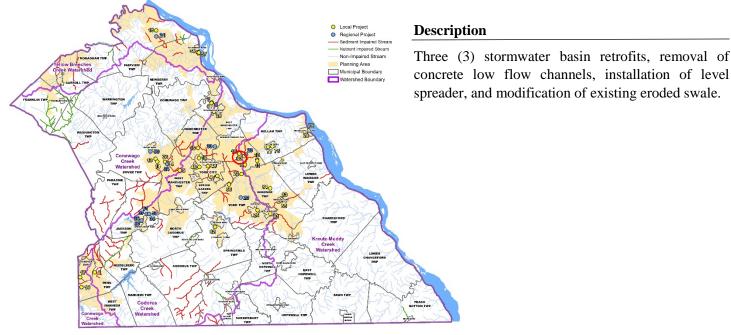
Basin footprints (acres) 1.1 Basin drainage areas (acres) 35

Cost (\$) 33,747

Pollutant Load Reduction

Basin Retrofits TSS (lbs/yr): 10,533

Cost (\$) / lb 3.20



Notes

This is a York County project. The County received a \$200,000 Local Stormwater BMP Implementation Grant from PA DEP to design and construct the project.

81 Lat/Laura 20.5

Horace Mann Ave BMP #1

Bioretention Red Lion Borough



General

Ownership: Public
Secured Funding: Yes
Designs: No
Watershed: Codorus Creek
NPDES Permit req.: No
Closest downstream impaired waterway:
Unnamed Trib to Barshinger Creek (TSS)

Bioretention Basin

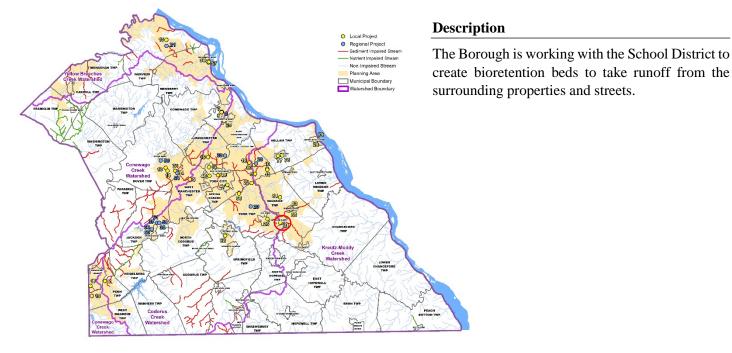
Basin footprint (acres) 0.13 Basin drainage area (acres) 1.9

Cost (\$) 13,892

Pollutant Load Reduction

Basin Retrofit TSS (lbs/yr): 779

Cost (\$) / lb 17.83



Notes

This work is intended to be made part of the street resurfacing and storm sewer upgrades for Horace Mann Avenue. The partnership with the School District will allow the construction of a highly visible project that can be used for educational purposes.

Lat/Long: 39.875616 / -76.719651

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Timeline: Short

Ensminger Drive Swale Rehabilitation

Swale Retrofit Springfield Township

82



General

Ownership: Public/Private
Secured Funding: Yes
Designs: Yes
Watershed: Codorus Creek
NPDES Permit req.: Yes
Closest downstream impaired waterway:
Unnamed Trib to Barshinger Creek (TSS)

Vegetated Swale

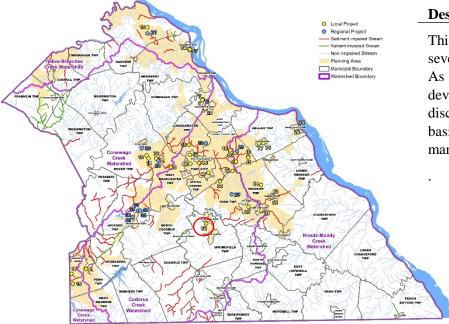
Stabilization Length (ft) 200

Cost (\$) 200,000

Pollutant Load Reduction

Swale Stabilization (lbs/yr): 20,110

Cost (\$) / lb 9.79



Description

This project will include the stabilization of a severely eroded swale in Springfield Township. As was common in the 1960s and 70s, the entire development drains to a few inlets which discharge directly to this swale. No stormwater basin or other control facility was installed to manage this flow.

Notes

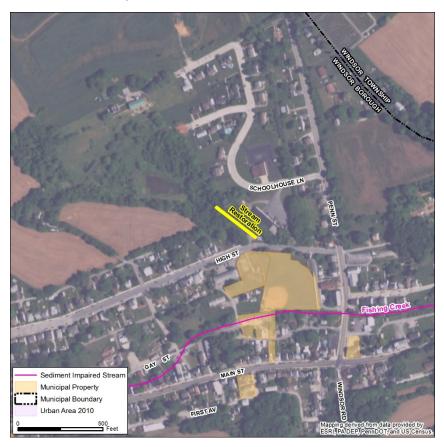
All required permits are in hand. Township paid for design and contributed construction funds. The YCSWC also awarded \$82,299 of funding for construction.

Page 127 Timeline: Long Lat/Long: 39.917160 / -76.582710

83

Stream/Drainage Improvement – Lions Club Property

Stream Restoration Windsor Borough



General

Ownership: Private
Secured Funding: No
Designs: No
Watershed: Kreutz-Muddy Creek
NPDES Permit req.: Yes
Impaired Stream: Fishing Creek (TSS)

Stream Restoration Length (ft): 285

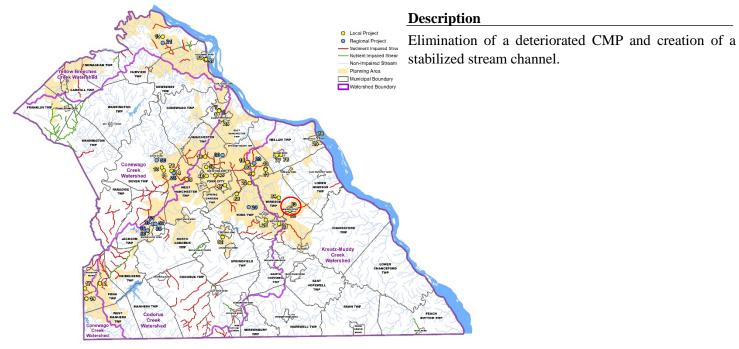
Cost (\$) 85,500

Pollutant Load Reduction

Stream Restoration

TSS (lbs/yr): 12,791

Cost (\$) / lb 6.68



Notes

This project would improve the ground of the local Lions Club. At present the area around the deteriorated CMP is very wet most of the time. The creation of a stabilized drainage channel through this area would capture additional stormwater and potentially dry up some of the unusable areas.

84 Timeline: short

Lat/Long: 39.935121 / -76.606382

Page 128

Milner Heights Basin Retrofit

Basin Retrofit Windsor Township



General

Private Ownership: Secured Funding: Yes Yes Designs: Watershed: Kreutz-Muddy Creek NPDES Permit req.: No Closest downstream waterway:

Unnamed Trib to Cabin Creek

Basin Retrofit

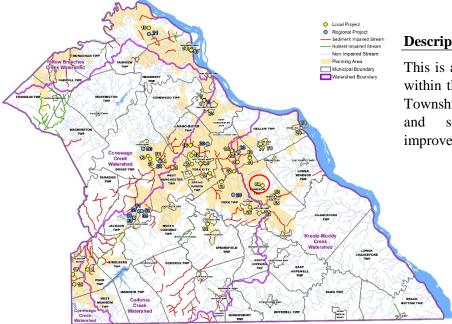
1.0 Basin footprint (acres) 42 Basin drainage area (acres)

30,000 Cost (\$)

Pollutant Load Reduction

12,469 Basin Retrofit TSS (lbs/yr):

2.37 Cost (\$) / lb



Description

This is a retrofit of an old stormwater basin located within the Milner Heights Development in Windsor Township. The project would add native plantings sediment forebay for water quality improvements.

Notes

Basin is privately owned and the Township has entered into an operation and maintenance agreement with the property owner. All design work is complete and no permits will be required. Windsor Township and Red Lion Municipal Authority split the cost of design equally to get the project moving.

APPENDIX VIII BMP Short List

	Project Name	Location	Project Type	Length (ft)	Drainage Area (acres)	Area (acres)	Pollutant Reduction TSS (lbs/yr)	
	Conewago Creek Watershed							
27	Creek Bottom Rd Forest Buffer	East Manchester Twp.	Forest Buffer	n/a	n/a	7.38	2,620	
28	Dover Township Public Works Facility	Dover Twp.	Basin Retrofit	n/a	9.0	n/a	2,704	
51	55-95 Creek Bottom Rd (Musser Run)	East Manchester Twp.	Stream Restoration	650	n/a	3	30,743	
		Codo	rus Creek Water	shed				
1	Broad Street Greenway	York City	Bioretention	n/a	6.34	0.03	2,641	
3	Campus Ave Stream Restoration Extension of Proj. 61 (UNT W Br Codorus Creek)	Spring Grove Boro	Stream Restoration	1,250	n/a	n/a	56,100	
31	Bridgewater Stream Restoration	York Twp.	Stream Restoration	3,968	n/a	n/a	178,084	
42	Barshinger Run Stream Restoration (IWLA/ARRC Project)	York Twp.	Stream Restoration	2,000	n/a	n/a	89,760	
85	York City Industrial Park	York City	Stream Restoration	2200	n/a	n/a	98,736	
Kreutz-Muddy Creek Watershed								
45	Pine Run Stream Restoration	Windsor Twp.	Stream Restoration	1,350	n/a	n/a	60,588	
Total					521,976			

APPENDIX IX

Intergovernmental Cooperation Agreement

AMENDED AND RESTATED INTERGOVERNMENTAL COOPERATION AGREEMENT FOR THE IMPLEMENTATION OF THE YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

THIS AGREEMENT is made this 16th day of September, 2017, by and among the York County Planning Commission ("YCPC") and the municipalities executing this Amended and Restated Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollutant Reduction Plan ("Agreement")(collectively, the "Participants" or the "York County Stormwater Consortium" or the "Consortium")(the YCPC and each Participant shall individually be referred to as a "Party" and shall collectively be referred to as the "Parties"). The list of Participants is included as Attachment "B" hereto, and shall be updated by Addendum as necessary.

This Intergovernmental Cooperation Agreement (the "Agreement") is authorized and required pursuant to applicable law, including, but not limited to, 53 Pa.C.S. §2303.

BACKGROUND

- A. Municipalities that are designated to hold a Pennsylvania Department of Environmental Protection ("DEP") MS4 Permit (regarding stormwater discharges) are required to prepare and implement pollutant reduction plans (each a "PRP" or collectively the "PRPs") including a Chesapeake Bay Pollutant Reduction Plan (the "CBPRP") (except those Municipalities that have received an advanced waiver and if they later receive a full waiver); and
- B. YCPC has led a group of interested municipalities through the process of developing a Regional CBPRP (the "Regional Plan"), as an alternative to each of the local government units developing their own PRPs; and

{01319714/5}

- C. Certain Best Management Practices ("BMPs") are designed to control stormwater and improve water quality, and are required to be implemented as part of a PRP; and
- D. BMPs or BMP projects require capital expenditures, in some cases, significant capital expenditures; and
- E. Participants desire to cooperate to effectuate the cost effective installation of BMPs in order to accomplish annual reduction(s) of nitrogen, phosphorous and sediment discharges into the Waters of the Commonwealth, as that term is defined in the Pennsylvania Clean Streams Law, 35 P.S. §691.1, in York County; and
- F. As set forth in this Agreement, all Participants shall share in the cost to implement stormwater and water quality Best Management Practices Projects (individually referred to as a "BMP Project" or collectively "BMP Projects") that are selected by the Participants in accordance with the terms of this Agreement; and
- G. The amount of annual financial contribution expected of each Participant is calculated based upon an agreed-upon formula set forth herein; and
- H. Participants that hold a MS4 Permit shall be able to be credited for the pollutant reductions achieved by construction of the BMP Projects in the Regional Plan. Such pollutant reductions shall be reported to DEP in the MS4 Status Report (the "Annual Report"); and
- I. The content of the Regional Plan, including BMP Project selection and the level of funding for each BMP Project, shall be determined by the Participants as set forth herein; and
- J. The Regional Plan approved by DEP, including any subsequent revisions/amendments thereto, is incorporated by reference herein; and
- K. The purpose of this Agreement is to set forth the Parties' agreement as to how the Parties will cooperate to implement and revise the Regional Plan, how the Parties will interact with the regulatory agencies regarding MS4 permit requirements, and how the Consortium will be governed, the process to withdraw, and the obligations of each Participant and the YCPC; and

- L. The Parties agree and acknowledge that nothing in this Agreement, nor the resultant actions here from, shall limit, prevent, or interfere with any Participant's responsibility to comply with applicable Pennsylvania law and regulation, Federal law and regulation, applicable regulatory agency rules and policies, permit requirements, DEP directives, or United States Environmental Protection Agency directives, and local ordinance; and
- M. Many of the Participants were a party to the prior Agreement, entitled Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollutant Reduction Plan dated September 21, 2014 (the "Original Agreement") which is being amended and restated by this document.
- N. All Participants shall adopt an Ordinance and take all necessary action to approve this Agreement and to effectuate their participation.

INTENDING TO BE LEGALLY BOUND, THE PARTIES AGREE AS FOLLOWS:

1. **Background**. All of the Background paragraphs hereto are incorporated herein by reference as if fully set forth at length.

2. **Guiding Principles**.

- a. The Parties have a mutual interest in protecting the Waters of the Commonwealth, and restoring the impaired waters of the County. The Parties commit to cooperate to implement a Regional Plan that identifies and funds cost effective BMP Projects to meet the required reductions of nitrogen, phosphorous and sediment entering the Waters of the Commonwealth in York County, Pennsylvania as efficiently as possible.
- b. The Parties agree that priority will be given to BMP Projects located on or upstream of an impaired stream in the Planning Area identified in the Regional Plan. Only the Regional Committee, as defined herein, may revise the Regional Plan to modify the BMP Summary List, funding plan or other plan components. Any changes to the Regional Plan shall assure that MS4

{01319714/5}

Permit PRP requirements, including, but not limited to sediment reduction and BMP project funding continue to be satisfied.

3. **Organization**.

- a. **Participant Representation.** Each Participant shall designate a primary voting representative and an alternate to serve as the contact person(s) on all matters related to the Regional Plan. The name of and contact information for the representative and alternate shall be provided to the YCPC in writing, as well as any subsequent changes.
- b. **Regional Committee.** The Regional Committee shall consist of the representatives designated by the Participants pursuant to Paragraph 3(a) above. The alternate shall be entitled to fully participate in all Committee meetings, but may vote only when the designated representative is unavailable.

c. Management Committee.

- (i) <u>Members</u>. The Management Committee shall consist of seven (7) voting representatives (primary voting representatives only) from the Regional Committee and the designated representative of the YCPC to serve as Administrator for the Consortium (the "Administrator"). No less than five (5) members of the Management Committee shall be representatives of Participants that have MS4 Permits. The Administrator shall be a participating but non-voting member of the Management Committee.
- (ii) Election of Management Committee Members. The members of the Management Committee shall be elected at the Annual Meeting where a Quorum (as defined below) is present. The Administrator shall solicit for volunteers interested in serving on the Management Committee from all primary voting representatives at least forty-five (45) days prior to the Annual Meeting. The Administrator shall issue a slate of eligible (i.e. voting primary representative from

Participant jurisdiction) and willing volunteer Management Committee candidates to all designated Participant representatives no less than fifteen (15) days prior to the Annual Meeting. Each Participant present at the Annual Meeting shall be entitled to one (1) vote for each vacancy on the Management Committee. Those nominated to serve on the Management Committee and receiving the highest number of votes shall be elected to the Management Committee. Voting cards, or another means acceptable to a majority of the Participants present at the Annual Meeting, shall be utilized and continue until all ties are broken.

- (iii) Management Committee Term. The Management Committee members shall serve a term of one (1) year, to begin on January 1 after election at the Annual Meeting, and which term shall expire on the following December 31 of that same calendar year. There is no limit to the number of terms that members may serve.
- (iv) <u>Management Committee Vacancy</u>. Where a Management Committee member vacates his or her position prior to the end of the term, the Management Committee is authorized to unilaterally appoint an eligible Participant representative to fill the vacancy for the remainder of the term (i.e., December 31 of that year).
- d. **Officers** Members of the Management Committee shall elect officers, to include a Chair, Vice-Chair, Secretary and Treasurer. Those Officers shall perform the duties necessary to implement this Agreement and as generally envisioned by *Robert's Rules of Order*, latest edition. Generally, the Officers shall be responsible as follows:
 - (i) Chairperson shall run the Management and Regional Committee meetings with the Administrator;
 - (ii) Vice-Chairperson shall fill in for Chairperson, when requested, and serves at the discretion of the Chairperson;

- (iii) Secretary shall ensure that meeting minutes of the Management and Regional Committees are accurate and retained as a record; and
- (iv) Treasurer shall ensure that Consortium funds are disbursed in a timely fashion for legitimate expenses related to implementation and administration of the Regional Plan, and as approved by the Management and/or the Regional Committees.

The Officers shall serve a term of one (1) year, to begin on January 1, and which term shall expire on the following December 31 of that same calendar year. There is no limit to the number of terms that a representative may serve as an Officer on the Management Committee.

- e. **Administration.** Staff of the YCPC will administer the activities of the Regional Committee and Management Committee at the direction of the Management and Regional Committees. The following are tasks that shall be undertaken and the responsibility of the YCPC, for which reimbursement shall be provided from the Consortium funds:
 - (i) Preparation and circulation to all Participants of minutes from all Regional Committee, Management Committee, and Subcommittee meetings.
 - (ii) Arrange, plan, and coordinate all Regional Committee, Management Committee, and Subcommittee meetings and/or conference calls.
 - (iii) Ensure that all applicable notice requirements are satisfied and advertisements are drafted and published as required by applicable laws, including, but not limited to, the Pennsylvania Sunshine Act.
 - (iv) Oversee, and administer BMP Projects funded by the Consortium to ensure funds are being spent as approved, on approved projects or project elements.

- (v) Pay appropriate invoices submitted for BMP Projects approved for funding by the Regional Committee, following approval of the invoice by the Management Committee.
- (vi) Draft any revisions to the Regional Plan for circulation and review by the Regional and Management Committees. Administer any such revisions.
- (vii) Prepare all draft Regional Plan documents, revisions, updates, and any content requirements, as determined and directed by the Management Committee for approval thereafter by the Regional Committee for submission to DEP.
- (viii) Prepare the MS4 CBPRP Annual Report related to and/or for the York County Regional CBPRP that is required in draft for review and approval by the Regional Committee. Finalize and aid in the submission of the MS4 CBPRP Annual Report as directed by the Regional and Management Committees prior to the designated due date, as determined by DEP.
- (ix) Calculate the Annual Contribution for each new Participant (in accordance with the Contribution Formula in Section 7.a.(ii) and as reflected in Attachment "A" (and any subsequent addenda to this Attachment) and issue an annual invoice to every Participant no later than January 31 for the current calendar year of the Term.
- (x) Collect all Annual Contributions from Participants and deposit all Annual Contribution funds into the Consortium Account, as described herein.
- (xi) Manage and administer Consortium funds paid and deposited in the Consortium Account.
- (xii) Retain all records, as that term is defined by the Pennsylvania Rightto-Know Law, for the time period required by applicable law or funding source but

not less than six (6) years. Such records related to the Regional Plan and the activities undertaken pursuant to this Agreement shall be available for review and copying by any Participant at the YCPC offices, upon submission of written request no less than five (5) business days prior to the desired date of review. Such written notice by a Participant is not required to comply with the then current Pennsylvania Right- to- Know Law.

- (xiii) Prepare or cause to be prepared an annual:
 - (1) Financial Report of the Consortium funds and all expenditures;
 - (2) Progress Report related to all approved BMP Projects.
- (xiv) Notify all Participants in writing of each Participant that has not paid the assigned annual financial contribution no later than September 30 of each calendar year.
- (xv) Assist in identifying grant funding that can be used to fund implementation of the Regional Plan and/or the actions and activities (excluding Administration) undertaken pursuant to this Agreement.
- (xvi) Solicit project status reports, Final Reports for each completed Project, and suggested revisions to the BMP Summary List from all Regional Committee members and Participant jurisdictions at least 90 days prior to the Annual Report deadline.
- (xvii) Provide summaries of interactions with DEP or other regulatory agencies regarding the implementation of this Agreement.
- (xviii) Undertake other actions that may be necessary or convenient to implement the provisions of this Agreement.

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4. Meetings.

a. <u>Annual Meeting</u> - There shall be an annual meeting of the Regional Committee (the "Annual Meeting"). The Annual Meeting shall occur following advance written notice to the Municipal representative and alternate of no less than thirty (30) days. Such Annual Meeting notice shall be provided by the Administrator to all Participants in accordance with this Agreement, and such notice may be provided by regular mail, facsimile or email using the contact information provided by each Participant. The Annual Notice will specify the time, place and agenda for the Annual Meeting.

b. <u>The following business shall be conducted at the Annual Meeting:</u>

- (i) Vote on BMP Projects to fund for the following calendar year, provided the Regional Committee shall not de-fund a multi-year project where construction has begun. If a funding matter arises during the course of the year, it can be considered by the Regional Committee at a Regular Meeting.
 - (ii) Presentation of the Annual Financial Report provided by YCPC.
- (iii) Presentation of the Status of Funded Projects Report provided by YCPC.
- (iv) Participant Update shall be presented by the Management Committee or the Administrator.
- (v) Review and approval of proposed budget prepared by the Administrator and Management Committee for the following calendar year.
 - (vi) Presentation of annual update by Subcommittees.
- (vii) Establish dates for the quarterly Regular Regional Committee Meetings (referenced in Section 5.b. below), one of which shall serve as the Annual Meeting, for the following calendar year (currently during the months of February, May, August and November).

- (viii) Elect the members to the Management Committee, which election shall occur as set forth in Section 3.c. above.
- (ix) Authorize that an audit be conducted in the upcoming year upon close out of the current year.
- (x) Other business, as determined by the Management Committee, the Administrator, and/or the Participants.
- c. Except as otherwise provided herein, all voting shall be completed by voting cards or another means acceptable to a majority of the Participants at the Annual Meetings and decisions shall be based on a simple majority vote of Regional Committee Participants in attendance.

Each Participant in attendance shall be entitled to one (1) vote on all matters addressed at the Annual Meeting and for which a vote is taken.

d. <u>Regular Regional Committee Meetings</u> –

- (i) The Regional Committee shall meet quarterly to conduct business related to the Regional Plan and Annual Report (the "Regular Meetings"), unless such meeting is cancelled or the date or location is moved by the Management Committee (by simple majority vote of four (4) Management Committee members, which vote can be cast via electronic communication). Business at the Regular Meetings shall be approved by a simple majority vote of those in attendance at the meeting.
- (ii) In addition to Regular Meetings, as set forth in (i) above, the Management Committee, or a majority of the members of the Regional Committee, may call for a Regional Committee meeting for any purpose arising from or related to this Agreement. Such meetings shall occur following advance written notice of

no less than fifteen (15) calendar days, which notice shall be provided to all Participants by the Administrator.

- e. <u>Quorum.</u> A quorum (50% of all Participants as represented by a voting representative) is necessary for the Regional Committee to take official action.
- f. <u>Participant Request.</u> The Parties and the Administrator recognize that some Participants may request technical support and/or regulatory representation under certain circumstances and will consider those requests.
- g. <u>YCPC Staff</u>. YCPC staff shall be authorized to attend and participate in all meetings referenced herein.
- 5. <u>Authority of Management Committee</u>. Except as otherwise provided herein, the implementation of the Regional Plan pursuant to this Agreement shall be managed and governed by the Management Committee. In addition to the duties and authority referenced elsewhere in this Agreement, the Participants hereby delegate such functions, powers and responsibilities set forth below to the Management Committee:
- a. Authorize payment of submitted invoices. All procurement rules applicable to the participating Municipality shall be applicable to the BMP Projects undertaken pursuant to this Agreement. The Chairperson or Vice-Chairperson shall sign documents on behalf of the Management Committee. The Secretary or Treasurer shall attest those signatures.
- b. Ensure funded BMP Projects are constructed as approved, payments for the work are within the approved scope of each Project, and that payments are issued timely to the Participants.
 - c. Review the Regional Plan as might be necessary or appropriate.
- d. Review and vote on new Participant requests, including specified amount(s) for each new Participant, as prescribed by YCPC and/or Administrator.

- e. Administer this Agreement, as necessary, throughout Agreement term.
- f. Convene and appoint persons to serve on any Subcommittee deemed necessary by the Management Committee to fulfill the obligations, actions and activities required in this Agreement.

The Management Committee shall comply with laws applicable to the Participants, including, but not limited to, the Sunshine Act, the Right-to-Know Law and the Public Official and Employees Ethics Act, and any and all other applicable laws. All actions of the Management Committee shall be approved by a majority of its seven (7) voting members. Regional Committee members shall be entitled to attend meetings of the Management Committee, which shall occur no less than four (4) times per year or more frequently as needed, following advance written notice to all members of the Management Committee and Regional Committee by regular mail, facsimile or email.

6. <u>Implementation of Agreement.</u>

- a. Participants' Obligations.
- (i) The Participant jurisdiction in which any local level BMP Project on the BMP Summary List is located shall be responsible for the implementation of the BMP Project (including, but not limited to, design, permitting, construction, operation, monitoring, and long-term maintenance and monitoring). If a BMP Project is designated as regional on the BMP Summary List, a Participant or qualified third party (the "Project Sponsor") shall be designated by the Management Committee as responsible for its implementation. Participants may contractually transfer such obligations for design, construction, operation and long-term maintenance, and monitoring to qualified third parties, but the Participant jurisdiction where the BMP Project is located shall remain responsible to ensure that the contracted third parties are performing the required tasks satisfactorily. The

Participants' obligations and accepted liability to the other Parties to this Agreement shall remain with the Participant. Such long-term future obligations of operation, maintenance and monitoring of BMP Projects funded by the Consortium set forth in this provision shall survive opt out (Section 7.a.(ix)) and/or termination.

- (ii) The Participant or Project Sponsor shall compile and timely submit any and all invoices related to funded BMP Projects to the YCPC, which will forward them to the Management Committee for review and approval for payment.
- (iii) The Participant or Project Sponsor shall maintain the BMP Project documentation and submit copies of all records relative to the BMP Project, including the approved Stormwater Management BMP Operations and Maintenance Plan, annually, unless requested more frequently by the Administrator, to the Administrator, who will then update the Management Committee and all Participants on the status of the BMP Project. The Participant or Project Sponsor shall retain BMP Project documentation that qualify as "public records" under the then current Right-to-Know Law, for the time period required by applicable law or funding source but not less than six (6) years. Such records related to the Regional Plan shall be available for public review and copying at Participant or Project Sponsor office, upon submission of written request no less than five (5) business days prior to the desired date of review. The Participant or Project Sponsor shall also provide to YCPC the Final Report for completed Projects.
- (iv) If a BMP Project, sponsored by a Project Sponsor, is to be implemented, such Project shall be subject to terms and conditions approved by the Management Committee and Administrator. The Management Committee and

Administrator will seek to develop a form of agreement to be used in such instances. Where a Participant does not have a Regional Plan BMP Project in its jurisdiction, that Participant shall not have any obligations as to that BMP Project pursuant to this Agreement and pursuant to its MS4 permit.

b. Enforcement Actions. The Regional Committee shall meet to consider any final compliance or enforcement action (including the pursuit of a civil penalty, Order, or any other compliance notice or action) if taken by either the Commonwealth or the Federal Government in any way related to the Regional Plan, or implementation actions and activities undertaken pursuant to this Agreement and the relevant Participant permit requirements. The Regional Committee shall consider, among other things, whether any one (1) or more Parties are responsible for the alleged violation(s), and determine what the Consortium's response action(s) shall be. Where the Administrator, YCPC, or the Management Committee become aware of a potential compliance issue or question, the Administrator shall send written notice to all Participants within three (3) business days, which notice shall include any and all correspondence (including hard, electronic, or telephone call notes/summary) from or with a regulatory entity (including, but not limited to, the York County Conservation District, DEP, the United States Environmental Protection Agency, and United States Fish and Wildlife Service). The Management Committee shall convene a special meeting of the Regional Committee in accordance with applicable law, and within ten (10) calendar days of issuance of the notice referenced herein. Under this provision and after an enforcement action becomes final, the Regional Committee may unilaterally terminate the Agreement as to any Participant, during a meeting where a Quorum is present and upon approval by a majority vote. Where this occurs, the terminated Participant(s)'

contribution(s) to date shall be retained by the Parties in the Consortium Account and is thereby forfeited by the terminated Participant(s).

7. **Financing**.

a. <u>Contributions by Participants</u>

- (i). Annual Contribution. Unless a Participant opts out pursuant to Section 7.a.(ix), below, each Participant shall provide annual funding to the Consortium pursuant to this Agreement in the amounts set forth in the Cost Sharing Summary ("Annual Contribution"), which is attached hereto as Attachment "A" and incorporated by reference herein. So long as a Participant does not opt out, Annual Contributions shall be made by each Participant jurisdiction on an annual basis, as set forth herein, through the Term (as defined below) of this Agreement.
- (ii) Contribution Formula. The Parties have agreed that Annual Contributions from each Participant jurisdiction that holds an MS4 Permit shall be calculated as follows:

A. = Lineal Miles of Impaired Streams in Participant Jurisdiction x \$13,261.2350 per mile*

B. = 2010 Population per U.S. Census in Participant Jurisdiction x \$12.103711 per person*

C. = Acres of Impervious Coverage in Participant Jurisdiction x \$ 221.61367 per acre*

* round result to a whole number; no decimals

Total Contribution Over Five Years = A + B + C

Annual Contribution = $(A + B + C) / 5^1$

Population in Participant Jurisdiction = 30% of contribution [\$3,820,585 / total population (315,654) = cost/ person]

Impervious Coverage (by acre) in Participant Jurisdiction = 50% of contribution \$6,367,642 / total impervious cover (28,733) = cost/acre]

 $(Cost/mile\ x\ miles\ of\ impaired\ streams\ in\ PJ) + (Cost/person\ x\ population\ in\ PJ) + (Cost/acre\ x\ acres\ of\ impervious\ cover\ in\ PJ) = Participant\ Jurisdiction\ Total\ Contribution\ over\ five\ (5)\ years$

¹ Lineal Miles of Impaired Stream in Participant Jurisdiction = 20% of contribution [\$2,547,057 / total miles of Impaired streams (192.0678) = cost/ mile]

The Parties have also agreed that each Participant Jurisdiction that receives a full MS4 Permit Waiver or is a non-MS4 shall pay an equal share of the administrative cost. The Annual Contribution for each shall be \$1.591.00.

The formula for each Participant's Annual Contribution shall not be changed or revised through the Term (as defined below) of this Agreement, except as specifically set forth herein. However, the Annual Contribution may be adjusted using the formula, if there is a default by a Participant under the Agreement that would affect funding at large, if there is a reasonably anticipated funding or nutrient reduction gap, provided that such additional funding is believed by the Management Committee to be necessary to avoid a violation under the CBPRP, or if BMP projects in the Regional Plan are accomplished ahead of schedule and the Consortium is on track to meet the MS4 Permit pollutant reduction requirements.

- (iii) Invoicing and Payment. Participants shall be invoiced by YCPC no later than January 31 of each calendar year, and the Participants' respective contributions shall be due either: (a) in full on or before April 30 of each year, or (b) half by April 30 and the remaining half by August 31 of each year.
- (iv) Non-Appropriation. Failure to budget and timely pay the contribution invoice issued by YCPC shall result in:
 - (a) retention of Annual Contribution funds paid to date by the violating Participant jurisdiction by YCPC and the Consortium;
 - (b) unilateral termination of this Agreement as to the violating Participant jurisdiction, following final notice and reasonable opportunity to cure of no less than five (5) business days, which shall be provided in writing by YCPC to the violating Participant jurisdiction;
 - (c) submission of notice of termination as to the violating Participant jurisdiction to the PA DEP; and

- (d) if any BMP Project located in the violating Participant jurisdiction was approved for funding by the Consortium and Regional Committee, those funds may be reallocated to other BMP Projects by the Regional Committee at the next Annual Meeting.
- (v) <u>Subsequent Participants</u> (i.e. "opt in"). A local government jurisdiction may opt in, subject to approval of the Regional Committee, provided that it shall:
 - (a) contribute an Annual Contribution as calculated by the Administrator and approved by the Management Committee, which amount shall be the total of: application of the Contribution Formula to the jurisdiction for the full five-year term, divided by the number of years left on the Term of this Agreement. (For example, if a municipality would have owed \$500 over the Term of the Agreement (\$100/yr) based upon application of the Contribution Formula, and it opts in for the last 2 years of the Term, the municipality shall owe \$250/year as its Annual Contribution in years 4 and 5 of the Term.) The Participants reserve the right to charge a "Plan Revision Fee" to Participants that opt in, equal to and based upon administrative costs and expenses arising from the requested action;
 - (b) make its Annual Contribution payment in accordance with this Agreement within thirty (30) calendar days of being approved to participate by the Management Committee, unless participation begins at start of a calendar year, then invoicing and payment shall be in accordance with Section 7.a.(iii); and

- (c) such Annual Contribution of such subsequent and additional Participant(s) shall not reduce the other Participants' Annual Contribution.
- (vi) Consortium Account. A separate Regional CBPRP bank account (the "Consortium Account") shall be established by the YCPC for the deposit of the Participants' Annual Contributions and the funds therein shall be used solely for the Annual Audit, reimbursement for eligible YCPC administrative costs and expenses, as set forth herein, and the implementation of BMP Projects identified in the Regional Plan. Administration of these funds to pay for proper expenses under this Agreement shall be the responsibility of the Administrator and YCPC, with oversight and at the direction of the Management Committee. Such use of funds shall be for aspects of BMP Project implementation, as approved by the Regional Committee at the Annual Meeting. YCPC will be compensated for its administrative role in an amount not to exceed \$35,000 in any one calendar year. YCPC shall also be entitled to reimbursement for direct expenses arising from or related to its administration under this Agreement including, but not limited to, advertising, supplies, solicitor fees, fiscal software changes, and bank fees. YCPC may, if it believes that compensation for its Administrative role is inadequate, seek approval for a reasonable increase, which must be approved by the Regional Committee.
- (vii) <u>Segregated Funds</u>. All Parties agree that the Annual Contribution funds in the Consortium Account shall be kept separate and apart from any and all other funds that may be acquired or utilized by YCPC and/or the Consortium, including, but not limited to, grant, loan, or donated funds. Grant, loan or donated funds shall be placed in separate Consortium accounts (each an "Additional"

18

Account"). It is the obligation of YCPC and the Administrator to maintain these funds and Additional Accounts separately, and to account for and report use of these funds to the Regional Committee.

- (viii) YCPC Reimbursement. The YCPC shall be reimbursed for invoiced costs and expenses reasonably related to those duties and obligations set forth in Section 3.e., and upon approval of invoices for payment by the Management Committee. The YCPC shall not be reimbursed for attorney or legal fees, unless incurred (1) with pre-authorization of such engagement and expense by the Management Committee (such pre-authorization may consist of formal action at a meeting or electronic approval by a majority of Management Committee members to be followed by ratification at a meeting); (2) on behalf of the Consortium's implementation of the Plan and this Agreement; and (3) at the direction of the Management Committee. YCPC shall not seek nor obtain reimbursement for actions, activities or costs that are otherwise paid for by grant, loan or other sources of money.
- (ix) Opt Out. During the Term of this Agreement, where a Participant, that does not have an MS4 permit or has a MS4 permit waiver, is not satisfied with the Regional Plan or the implementation of this Agreement, a Participant may opt out of the Regional Plan and unilaterally terminate its participation in this Agreement in year 3 of the Agreement Term (i.e., 2020). Such opt out action shall only be effective where accomplished as follows:
 - (a) Submit written notice of intent to opt out and terminate to the Administrator and the Management Committee no less than sixty (60) days prior to the Annual Meeting for termination to begin January 1, 2021.

- (b) Such written notice of opt out shall terminate this Agreement as to the opting out Participant on January 1, 2021.
- (c) All Annual Contributions made to date by the Participant shall be automatically forfeited and shall become the property of the remaining Parties hereto.
- (d) The Participant choosing to opt out at this stage shall pay a "Plan Revision Charge" of \$500 to the Consortium Account.

b. Grants.

- (i). Any grants or donations received by the YCPC or the Consortium Participants to implement stormwater BMP Projects included in the Regional Plan shall not reduce the Participants' Annual Contributions, except as provided for in Section 7.a.(ii).
- (ii). Each Participant agrees that it may apply for grants as directed by its governing body and undertake any and all actions necessary to obtain them.
- (iii). Upon receipt of such a grant, the Participant shall administer the grant. Assistance with grant administration may be sought from the Management Committee or YCPC.

c. Donations.

- 1. To the extent that donations to the Consortium can be obtained from any source, they shall be deposited into an Additional Account.
- 2. Such donations to the Consortium shall be utilized to fund BMP Projects identified in the Regional Plan.

d. Payment Procedures for Funded BMP Projects.

Each BMP Project that the Regional Committee agrees to fund shall be assigned a Project Number and a Request for Payment form shall be prepared by

YCPC. Invoices will be processed in accordance with the Standard Operating Procedure established for Processing Payments for Funded Regional CBPRP BMP Projects. This Procedure, including any subsequent revisions thereto, is incorporated by reference herein. A similar procedure will be utilized for processing YCPC administration invoices. Where the Participants are funding a portion (partial funding) of a BMP Project, Consortium funds shall be the last funds used or paid out by YCPC.

8. **Effective Date.**

- a. The Effective Date of this Agreement shall be September 16, 2017. It is recognized that all Participants shall have executed this Agreement and passed an ordinance authorizing the Agreement pursuant to 53 Pa. C.S. § 2303 (an "Authorizing Ordinance") before that date. It is the intent of the Parties that their cooperative efforts, including the conduct of meetings authorized or required by this Agreement, shall commence as of September 16, 2017, regardless of when each Participant executes the Agreement or passes an Authorizing Ordinance.
- b. This Agreement shall become effective *as to each Party* upon execution and, where applicable, adoption of an Authorizing Ordinance.
- c. For any Participant that received an advanced waiver and is seeking a full waiver, upon notification from DEP of issuance of an MS4 Permit or full waiver, that Participant may withdraw at the end of the calendar year of the Term, and upon no less than sixty (60) days advance written notice to the Administrator prior to the end of the calendar year. The annual Participant contribution shall be \$1,591 until time of withdrawal. However, if an MS4 Permit is issued by DEP and the municipality remains a Participant, it shall be obligated to pay the Annual Contribution if Full Waiver Not Received as set forth in the last column of Attachment "A", (if the Annual Contribution in

the second column of Attachment "A" has already been paid, then that amount shall be applied to the Annual Contribution if Full Waiver Not Received and the Participant shall pay the balance) by the end of the current calendar year.

9. **Term.**

- a. The term of this Agreement shall begin on the Effective Date and end on December 31, 2023 (the "Term"). All Participants approving this Agreement may participate for such time period, unless the Participant opts out or is terminated prior to the end of this Agreement Term as provided for herein.
- b. This Agreement may be extended by those Participant jurisdictions desiring to participate for an additional term or terms, by resolution.
- 10. Termination and Wind-Up. In the event of termination of the Consortium established by this Agreement, either at the conclusion of the initial Term, or at the end of any additional extended term agreed to by the Parties, any funds remaining in the Consortium Account shall be returned to those Participants who are part of the Consortium at the time of termination. For Participants who hold an MS4 Permit, any remaining BMP Project contributions shall be returned based upon their percentage (rounded to three decimal digits) of the total Participant BMP contributions as reflected at the time of termination. For Participants who have an MS4 Permit Waiver or are non-MS4s, any remaining administration contributions shall be returned based upon their percentage of the total Participant administration contributions as reflected at the time of termination. Such funds shall be disbursed to the Participants remaining on the date of Termination no more than thirty (30) days after the date of Termination.
- 11. **Applicable Law.** The Parties agree and affirm that Pennsylvania law applies to this Agreement and all matters covered by and addressed by this Agreement. It is acknowledged and agreed that the sole and exclusive jurisdiction and venue for any dispute relating to any matter covered by this Agreement, and/or regarding any dispute over the enforcement or interpretation of

this Agreement, shall rest with the York County Court of Common Pleas. The Parties hereby submit to the exclusive jurisdiction of that Court.

- 12. <u>Integration</u>. This Agreement contains the entire agreement between the Parties. There are no understandings or agreements, verbal or otherwise, in relation hereto, except those expressly and specifically set forth herein. The Parties have not relied upon any statement, projection, disclosure, report, information or any other representation or warranty except for those as may be specifically and expressly set forth in this Agreement.
- 13. **No Oral Modification.** This Agreement may not be modified except in writing executed by all Parties. This Agreement shall be amended only in writing, by duly authorized representatives of all Parties, and such revision(s) must be approved by official action of each Participant jurisdiction, and as required by any applicable law of the Commonwealth.
- 14. **Severability.** No determination by any court, governmental body, arbitration, or other judicial body, that any provision of this Agreement or any amendment that may be created hereto, is invalid or unenforceable in any instance shall affect the validity or enforceability of any other provision of the Agreement or applicable amendment. Each provision shall be valid and enforceable to the fullest extent permitted by applicable law, and shall be construed where and whenever possible as being consistent with applicable law.
- through their respective legal counsel and embodies terms that were arrived at through mutual negotiation and joint effort, and the Parties shall be considered to have contributed equally to the preparation of this Agreement. The Parties warrant and represent that the terms and conditions of this Agreement have been discussed and negotiated between them, and their respective counsel, and are voluntarily and knowingly accepted for the purpose of making a full and final compromise between the Parties, as referenced herein. The Parties further acknowledge that they understand the facts and their respective legal rights and obligations pursuant to this Agreement.

- 16. <u>Counterparts.</u> This Agreement may be executed in counterparts, each of which will be an original, and all of which taken together shall constitute one and the same instrument.
- 17. Execution by Facsimile or Electronic Scanning. Delivery of an executed counterpart of this Agreement by facsimile, or by electronically scanning and e-mailing an executed counterpart signature page, while not specifically required, will be acknowledged by the Parties as being equally as effective as delivery of a manually executed counterpart of this Agreement. The use of a signature page received by facsimile, or through an electronic scan and e-mail, shall not affect the validity, enforceability, or binding effect of this Agreement.
- 18. <u>Fees and costs</u>. The Parties agree to bear their own fees and costs in connection with or incurred related to the matters between them, and relating to this Agreement.
- 19. <u>Signatures.</u> The Parties hereto, and the undersigned individuals and/or representatives, represent and warrant that they have the authority to enter into this Agreement and be legally bound hereby.
- 20. **Prior Participants.** Participants in the prior Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollution Reduction Plan that are not a party to this Agreement shall be relieved of any obligations thereunder by the signatures of the Parties hereto.

SIGNATURE PAGES FOLLOW

WITNESS/ATTEST:

MUNICIPALITY CARROLL TOWNSHIP

Fage L. Romberger Print name and title Sceretary

Bruce R. Trostle Print name and title Chairman

Signature date: September 11, 2017

Participation authorized by Ordinance No 2017-<u>240</u> passed at a meeting of the governing body on <u>Sep+. 11</u>, 2017.

WITNESS/ATTEST:

CHANCEFORD TOWNSHIP

Tonger & Guckeson

Tonya L Jac Kson Secretary Print name and title TREASURE

Print name and title

supervisor

Signature date: September 11, 2017

Participation authorized by Ordinance No 2017-01, passed at a meeting of the governing body on September 11, 2017.

WITNESS/ATTEST:

MUNICIPALITY CONEWAGO TOWNSHIP

Down Anne Boshi, manuger

Print name and title Chairperson

Signature date: 952017

Participation authorized by Ordinance No 2017-356, passed at a meeting of the governing body on 555, 2017.

WITNESS/ATTEST:	MUNICIPALITY
DALLASTUWN BOROUGH	By: DALLASTOWN BOROUGH
Conne & Atomes Print name and title manager	Print name and title President
Signature date: Quequet 14, 2017	
Participation authorized by Ordinance No 2017	- <u>/-</u> , passed at a meeting of the governing bod

WITNESS/ATTEST:

MUNICIPALITY DILLSBURG BORDUGH

Ву:

Knen Dubler Manager Print name and title John J Richardson, Jr Print name and title Council President

Signature date: Japt. 12,2017

Participation authorized by Ordinance No 2017-3, passed at a meeting of the governing body on 5, 2017.

WITNESS/ATTEST:	MUNICIPALITY
Brenda & Plowman	By: Joseph M. Solvel
Brenda Plowman, Secretary/Treasurer Print name and title	Joseph Sabold, Council President Print name and title
Signature date: August 7, 2017	
Participation authorized by Ordinance No 2017-01	_, passed at a meeting of the governing body

on August 7, , 2017.

WITNESS/ATTEST:

MUNICIPALITY Dover Township

Tiffour Strine Scenetory
Print nance and title

Olephan Olefanowicz Print name and title Dover Tourship Chairman

Signature date: August 28, 2017

Participation authorized by Ordinance No 2017-07, passed at a meeting of the governing body on August 28th, 2017.

WITNESS/ATTEST:

MUNICIPALITY FAIRVIEW TOWNSHIP

Donald F. Martinta Print name and title Manager &

DR. Larry Cox Chairman
Print name and title

Signature date: 8-29-17

Participation authorized by Ordinance No 2017-2, passed at a meeting of the governing body on August 28th, 2017.

WITNESS/ATTE	·T2

MUNICIPALITY Felton Borough

Borough President

Participation authorized by Ordinance No 2017-O1, passed at a meeting of the governing body

WITNESS/ATTEST:

Franklintown Borough

York County, Pennsylvania

Richard Blouch, Council President

Kelly Kunkle, Secretary

Signature date: September 6, 2017

Examined and approved this 6th day of September, 2017.

 \mathbf{DV}

Mayor of Borough of Franklintown James L. Adams

Participation authorized by Ordinance No 285-2017, passed at a meeting of the governing body on September 6, 2017.

WITNESS/ATTEST:	MUNICIPALITY GLEN ROCK BOROV
ann E. Much	By:/
ANN E. MERRICK, Sectorers. Print name and title	Dovolas S. Young, President Print name and title
Signature date: 8/9/17	
1160	

Participation authorized by Ordinance No 2017-03, passed at a meeting of the governing body on August 9, 2017.

GOLDSBORO BOROUGH

The Borough of Goldsboro has not yet had the opportunity to adopt the ordinance approving the York County Regional Chesapeake Bay Pollutant Reduction Plan (CBPRP) Intergovernmental Cooperation Agreement. At the September 11, 2017, Borough Council meeting, Council approved advertisement of the Legal Notice indicating the Borough's intent to adopt an Ordinance authorizing the Agreement.

The Borough of Goldsboro is planning to participate in the Regional CBPRP and the Intergovernmental Cooperation Agreement is on the agenda for approval at the October 9, 2017, Council Meeting. Upon approval, a copy of the approved Ordinance/Agreement will be submitted to DEP and the County of York for their records.

WITNESS/ATTEST:	MUNICIPALITY HALLAM BOROUGH
Sheron & Off	By Wat The
SHARON L DUPLER, SECRETARY Print name and title	Print name and title Bor of Course
Signature date: 9/11/17	
Participation authorized by Ordinance No 2017	nossed at a marting of the revenient 1 - 1

WITNESS/ATTEST:	MUNICIPALITY HANON	IER BORDUGH
J)/Mu//M	By: R. M. Mob	le
Dorothy C. Neiderer, Secretary Print name and title	R. Daniel Noble, President Print name and title	
Signature date: August 23, 2017		
Participation authorized by Ordinance No 2259. on August 23, 2017.	, passed at a meeting of the gover	ning body

WITNESS/ATTEST:

MUNICIPALITY HELLAM TOWNSHIP

Corina L. Mann

Signature date: Suptember 7,2017

Participation authorized by Ordinance No 2017-06, passed at a meeting of the governing body on September 14h, 2017.

WITNESS/ATTEST:

MUNICIPALITY JACKSON TOWNSHIP

LINGA EATON TOWNSHIP SERETARY
Print name and title

WILLIAM J. ANN TOWNSHIP MANAGER
Print name and title

By: William J Com

Signature date: 9/5/17

Participation authorized by Ordinance No **2020**, passed at a meeting of the governing body on **Septemble**, 2017.

pp 119* (43)

WITNESS/ATTEST:

MUNICIPALITY JACOBUS BOROUGH

Cypthie M. Eure

_

By: Koger W. Coleman

Cunthia M. Ferree Office Manager Print name and title ROGER W. COLEMAN

COUNCIL PRESIDENT

Print name and title

Signature date: September 15, 2017

Participation authorized by Ordinance No 2017-1, passed at a meeting of the governing body on September 6, 2017.

WITNESS/ATTEST:

LEWISBERRY BOROUGH

Mackensie Greene

Lewisberry Borough Manager

Mark Keener,

Lewisberry Borough Council President

Signature date: September 5, 2017

Participation authorized by Ordinance No 2017-01 passed at a meeting of the governing body on September 5, 2017.

WITNESS/ATTEST:	MUNICIPALITY LOGANVILLE BOROUG
Sugar Sunsi.	By: Ronald Im bes
DAVID 41. SAVIDSO JR ENGR Print name and title	RONALO Tombesi Presidem Print name and title
Signature date: 9/15/17	
Participation authorized by Ordinance No 20	17, passed at a meeting of the governing body

WITNESS/ATTEST:	MUNICIPALITY
	LOWER WINDSOR TOWNSHIP
Juli Janneena	By: Boy I maso
•	
Linda Zimmerman, Secretary	Barry Miller, Chairman
Print name and title	Print name and title
Signature date: August 10, 2017	
Participation authorized by Ordinance No 2017-0	3, passed at a meeting of the governing body

August 10

, 2017.

WITNESS/ATTEST:

MUNICIPALITY

MANCHESTER BOROUGH

Quality R. Helliard

Adam Bowman, President
Print name and title

Judith R. Hilliard, Secretary Print name and title

Signature date: September 11, 2017

Participation authorized by Ordinance No 2017-<u>3</u>, passed at a meeting of the governing body on <u>September 11</u>, 2017.

WITNESS/ATTEST:	MUNICIPALITY MANCHESTER TOWNSHI
All	By: Lina Daviged
Timothy K. James Print name and title	Lisa D. Wingert Print name and title
8/8/12	

Participation authorized by Ordinance No 2017-04, passed at a meeting of the governing body on August 8, 2017.

WITNESS/ATTEST:	MUNICIPALITY MONAGHAN TOWNSH
Dinola Attland	By: O.A. Hove
LINDA ALTLAND Print name and title	CHRIS A. Hoavest, CHARLEMAN Print name and title
Signature date: 9-//-/7	
· · · · · · · · · · · · · · · · · · ·	
Participation authorized by Ordinance No 2017- on 9-11 2017	96, passed at a meeting of the governing body

WITNESS/ATTEST:	BOROUGH OF MOUNT WOLF
Steven C. Kelhler	By Willer MAGN
Steven C. Kehler, Seevelary Treas. Print name and title	William N. M. Apquir, President Print name and title
Signature date: 8/8/2017	

WITNESS/ATTEST:	MUNICIPALITY NEW SALEM BOROUGH
Clube M. M. John	By: Vicki M Rohbaugh
Andrew N. Shaffer-Sec. Print name and title	VICKI MI ROHRBAUGH Print name and title PRES COUNCIL New Salem Burough
Signature date: 9/5/17	
Print name and title	

Participation authorized by Ordinance No 2017-____, passed at a meeting of the governing body on __September______, 2017.

WITNESS/ATTEST:

NEWBERRY TOWNSHIP, YORK COUNTY

Donald Le Keener, Secretary

William Toothaker, Chairman

Signature date: August 22, 2017

Participation authorized by Ordinance No. 401, passed at a meeting of the governing body on August 22, 2017.

WITI	JESS.	/ATTEST:	•
7711	1 12/2/2/		١

MUNICIPALITY NORTH YORK BOROUGH

John Ellidt - Soliciter

Print name and title

Print name and title Reden

Signature date: **9/12/17**

Participation authorized by Ordinance No 2017-____, passed at a meeting of the governing body on _______, 2017.

WITNESS/ATTEST:	MUNICIPALITY PENN TOWNSH
angela m. 7 tallott	By: Buley W. Fleibran
Angela M. Hallett, Secretary Print name and title	Phillip W. Heilman, President Print name and title
Signature date: August 21, 2017	
Participation authorized by Ordinance No 2017- onAugust 21, 2017.	799, passed at a meeting of the governing body

WITNESS/ATTEST:	MUNICIPALITY RAILROAS BOROUGH
Dearly Juane	By: Lata HH
Print name and title, BORO SECY/TRAS	Print name and title
Signature date: 8-15-2017	

Participation authorized by Ordinance No 2017-02, passed at a meeting of the governing body on AUG 15, 2017.

WITNESS/ATTEST:

MUNICIPALITY RED LION BOROUGH

DIANNI PRILE, Lev.

Print name and title

Kelly A. Hershaw Fresident

Signature date; Systemler 112017

Participation authorized by Ordinance No 2017-5, passed at a meeting of the governing body on September 11, 2017.

WITNESS/ATTEST:

SPRINGETTSBURY TOWNSHIP

Doreen K. Bowders, Secretary

Mark M. Swomley, Chairman

Signature date: 8/24/17

Participation authorized by Ordinance No 2017-07, passed at a meeting of the governing body on August 24, 2017.

WITNESS/ATTEST:

MUNICIPALITY SPRINGFIELD

By: ach & fiest

Barbara E. Sytitel/ Print name and title Sec. Theas

Adem E Sweitzer Vice Chairman Print name and title

Signature date: Stot 11, 2017

Participation authorized by Ordinance No 2017-03, passed at a meeting of the governing body on September //, 2017.

WITNESS/ATTEST:

SPRING GARDEN TOWNSHIP

Print name and title

HSSISIAN Secretory

Dec

Signature date: September 13, 20 (7

rint name and title

Vice Project Board & Commissiones

Participation authorized by Ordinance No 2017 67, passed at a meeting of the governing body on 54.13, 2017.

WITNESS/ATTEST:	MUNICIPALITY SPRING GROVE BOROUGH
Authorities -	B. Richard & Regre
Another W. Shacker, Manager Print name and title	Richard P. Legore, President. Print name and title
Signature date: 8/7/17	
Participation authorized by Ordinance No 2017- Son August 7, 2017.	, passed at a meeting of the governing body

WITNESS/ATTEST:	MUNICIPALITY WEST MANCHESTER TOWNSHIP
Secretary: Kelly k. Relch	By:Chairman: Steve Harlacher
	Supervisor: Rosa Hickey
Signature date: July 31, 2017	_
Participation authorized by Ordinance No 2017- 0 on July 31st 2017.	7_, passed at a meeting of the governing body

WITNESS/ATTEST:

MUNICIPALITY WEST MANHEIM TOWNSHIP

MIRIAM CIAPPER
Print name and title

By: Harold / Laure CHAIRMAN
Print name and title

Signature date: September 7, 2017

WITNESS/ATTEST:	MUNICIPALITY WEST YORK BOROUG
Levele Mies	By: Mary Wagner
Print name and title	Mary Wagner Council President Print name and title
Signature date: 9 5 2017	
Participation authorized by Ordinance No 2017-500 2017	43 passed at a meeting of the governing body

WITNESS/ATTEST:

WINDSOR BOROUGH COUNCIL, YORK COUNTY

Donna J. Martin, Secretary

Matthew L. Dietz President

Signature date: September 11, 2017

Participation authorized by Ordinance No. 2-2017, passed at a meeting of the governing body on September 11, 2017.

WITNESS/ATTEST:

MUNICIPALITY: Windsor Township

Jennifer L. Gunnet, Secretary Print name and title

Dean L. Heffner, Chairman Print name and title

Signature date: August 21, 2017

Participation authorized by Ordinance No 2017_08-01 passed at a meeting of the governing body on __August _21, ______, 2017.

WITNESS/ATTEST:

MUNICIPALITY WRIGHTSVILLE BOROUGH

Tummie Hoff, Borough
Print name and title Secretory

Crystal A. Bolton, Council President

Signature date: 9-13-17

Participation authorized by Ordinance No 2017-2, passed at a meeting of the governing body on Sept. 11, 2017.

WITNESS/ATTEST:

Seth Eric Springer, Esq.,

Yoe Borough Solicitor

Diana Dyorak,

Yoe Borough Secretary/Treasurer

MUNICIPALITY: Yoe Borough

Sam Snyder,

Yoe Borough Council President

John Sanford.

Yoe Borough Mayor

Signature date: September 5, 2017

Participation authorized by Ordinance No. 2017-03, passed at a meeting of the governing body on September 5, 2017.



The City of York Pennsylvania

101 South George Street PO Box 509 York PA 17405

www.yorkcity.org

Honorable C. Kim Bracey, Mayor

Chaz A. Green
Deputy Director
Department of Public Works

Date: September 19, 2017

Resolution No. 93 - 2017

Phone: 717-854-1587

CONTRACT to Amend and Restated Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollutant Reduction Plan.

IN WITNESS WHEREOF, the parties have executed this agreement the day and year first above written.

CITY OF YORK

Mayor C. Kim Bracey

City of York

= 1 Day = 101 11

Dianna L. Thompson-Mitchell, City Clerk

City of York

Date

AliceAnne D. Frost, Controller

City of York

Date

WITNESS/ATTEST:

MUNICIPALITY YORK COUNTY
By: Susan Physics

Print name and title

BUSAN BURNER, PRES. Commissioner.
Print name and title

Signature date: 8/16/2017

Participation authorized by Ordinance No 2017-04, passed at a meeting of the governing body on August 16, 2017.

WITNESS/ATTEST:

YORK COUNTY PLANNING COMMISSION

Signature date: September 8,2017

Participation authorized by Ordinance No 2017-04, passed at a meeting of the governing body on August 16, 2017.

WITNESS/ATTEST:

MUNICIPALITY YORK TOWNSHIP

By: Carle W Melle

Frint name and title

rint name and title

York Yourship Secratory

Print name and title Reserver 300

Signature date: Negust 8, 2017

WITNESS/ATTEST:

MUNICIPALITY YORK HAVEN BOROUGH

Pamela Bulet

By: Margaret & Malehon

Print name and title Transver

MArgaret EMAlehoan Print name and title Council Presiden

Signature date: September 5, 2017

Participation authorized by Ordinance No 2017-Ol, passed at a meeting of the governing body on <u>September 5</u>, 2017.

ATTACHMENT "A"

COST SHARING SCHEDULE

Municipality Participating in Regional CBPRP	Five (5) Year Contribution	Annual Contribution	Five (5) Year Contribution if Full Waiver Not Received	Annual Contribution if Full Waiver Not Received
Carroll Township	\$352,534	\$70,507		
Chanceford Township	\$7,955	\$1,591	\$263,971	\$52,794
Conewago Township	\$7,955	\$1,591	\$393,125	\$78,625
Dallastown Borough	\$94,009	\$18,802		
Dillsburg Borough	\$69,505	\$13,901		
Dover Borough	\$7,955	\$1,591	\$50,353	\$10,071
Dover Township	\$1,012,712	\$202,542		
Fairview Township	\$972,505	\$194,501		
Felton Borough	\$7,955	\$1,591	\$21,708	\$4,342
Franklintown Borough	\$7,955	\$1,591	\$12,124	\$2,425
Goldsboro Borough	\$7,955	\$1,591	\$25,162	\$5,032
Hallam Borough	\$7,955	\$1,591	\$58,060	\$11,612
Hanover Borough	\$512,451	\$102,490		
Heidelberg Township	\$7,955	\$1,591	\$353,843	\$70,769
Hellam Township	\$7,955	\$1,591	\$290,410	\$58,082
Jackson Township	\$582,369	\$116,474		
Jacobus Borough	\$7,955	\$1,591	\$46,217	\$9,243
Lewisberry Borough	\$7,955	\$1,591	\$14,740	\$2,948
Loganville Borough	\$7,955	\$1,591	\$36,784	\$7,357
Lower Windsor Township	\$7,955	\$1,591	\$288,612	\$57,722
Manchester Borough	\$72,534	\$14,507		
Manchester Township	\$849,083	\$169,817		
Monaghan Township	\$140,586	\$28,117		
Mount Wolf Borough	\$35,808	\$7,162		
New Salem Borough	\$7 <i>,</i> 955	\$1,591	\$20,418	\$4,084
Newberry Township	\$542,555	\$108,511		
North York Borough	\$59,139	\$11,828		
Penn Township	\$679,527	\$135,905		
Red Lion Borough	\$161,686	\$32,337		
Spring Garden Township	\$514,101	\$102,820		
Spring Grove Borough *	\$7,955	\$1,591	\$68,589	\$13,718

Municipality Participating in Regional CBPRP	Five (5) Year Contribution	Annual Contribution	Five (5) Year Contribution if Full Waiver Not Received	Annual Contribution if Full Waiver Not Received
Springettsbury Township	\$1,120,690	\$224,138		
Springfield Township	\$358,000	\$71,600		
West Manchester Township	\$888,661	\$177,732		
West Manheim Township	\$262,725	\$55,545		
West York Borough	\$104,066	\$20,813		
Windsor Borough	\$44,033	\$8,807		
Windsor Township	\$591,874	\$118,375		
Wrightsville Borough	\$7,955	\$1,591	\$60,537	\$12,107
Yoe Borough	\$21,482	\$4,296		
York City	\$1,058,578	\$211,716		
York Haven Borough	\$7,955	\$1,591	\$18,111	\$3,622
York Township	\$1,089,927	\$217,985		
Yorkana Borough	\$7,955	\$1,591	\$6,489	\$1,298
Glen Rock Borough	\$7,955	\$1,591		
North Hopewell Township	\$7,955	\$1,591		
Railroad Borough	\$7,955	\$1,591		
TOTALS	\$12,844,030	2,568,804		

Waiver Requested
Non-MS4

^{*}Spring Grove Borough elected to submit its own Chesapeake Bay Pollutant Reduction Plan. Accordingly, Spring Grove Borough does not need to participate in the Consortium to meet its permit requirements. However, Spring Grove Borough desires to enter into this Intergovernmental Cooperation Agreement under the same parameters as the Waiver and Non-MS4 municipalities, including the payment of related five year and annual Contributions. If Spring Grove Borough should need to participate in the Consortium to meet its permit requirements during the term hereof, it would be required to pay the appropriate portion of the Contribution in the third column.

ATTACHMENT B

Carroll Township (MS4 Permit)

Chanceford Township (MS4 Permit) Waiver requested (MS4 Permit) Waiver requested

Dallastown Borough (MS4 Permit) Dillsburg Borough (MS4 Permit)

Dover Borough (MS4Permit) Waiver requested

Dover Township (MS4 Permit) Fairview Township (MS4 Permit)

Felton Borough (MS4 Permit) Waiver requested Franklintown Borough (MS4 Permit) Waiver requested

Glen Rock Borough (Non-MS4)

Goldsboro Borough (MS4Permit) Waiver requested Hallam Borough (MS4 Permit) Waiver requested

Hanover Borough (MS4 Permit)

Heidelberg Township (MS4 Permit) Waiver requested Hellam Township (MS4 Permit) Waiver requested

Jackson Township (MS4 Permit)

Jacobus Borough (MS4 Permit) Waiver requested
Lewisberry Borough (MS4 Permit) Waiver requested
Loganville Borough (MS4 Permit) Waiver requested
Lower Windsor Township (MS4 Permit) Waiver requested

Manchester Borough (MS4 Permit)
Manchester Township (MS4 Permit)
Monaghan Township (MS4 Permit)
Mount Wolf Borough (MS4 Permit)

New Salem Borough (MS4 Permit) Waiver requested

Newberry Township (MS4 Permit) North Hopewell Township (Non-MS4) North York Borough (MS4 Permit) Penn Township (MS4 Permit) Railroad Borough (Non-MS4) Red Lion Borough (MS4 Permit) Spring Garden Township (MS4 Permit) Spring Grove Borough (MS4 Permit) * Springettsbury Township (MS4 Permit) Springfield Township (MS4 Permit)

West Manchester Township
West Manheim Township
West York Borough
Windsor Borough
Windsor Township
Windsor Township

(MS4 Permit)
(MS4 Permit)
(MS4 Permit)

Wrightsville Borough (MS4 Permit) Waiver requested

Yoe Borough (MS4 Permit) York City (MS4 Permit)

York County (MS4 Permit) Waiver requested York Haven Borough (MS4 Permit) Waiver requested

York Township (MS4 Permit)

Yorkana Borough (MS4 Permit) Waiver requested