



POLLUTANT REDUCTION PLAN (PRP) / TMDL PLAN FINAL REPORT

Before completing this report please review the instructions, which are located within the Annual MS4 Status Report Instructions (3800-FM-BCW0491)

PRP / TMDL PLAN SUMMARY

Permittee Name: Evans City Borough Permit No.: PAG138337

☒ PRP ☐ TMDL Plan ☐ Combined PRP / TMDL Plan

Plan Approval Date: 3/13/2018 Required Completion Date: 3/15/2023

Joint Plan? ☐ Yes ☒ No *If Yes, identify all participating permittees as an attachment to this report*

Surface Waters Addressed by Plan: Breakneck Creek; UNTs: 35024, 35025, 35026, 35029, and 35030

Permittee's Planning Area (acres): 223.75 Total Planning Area (Joint Plans): --- acres

Pollutant Load Reduction Calculation Methodology:

☒ Simplified Method ☐ Mapshed ☐ ModelMyWatershed ☐ Other:

	TSS		TN		TP	
Baseline Pollutant Load – Planning Area	150855	lbs/yr	5160	lbs/yr	508	lbs/yr
Pollutant Load Reduction Requirement (%)	10	%	5	%	5	%
Pollutant Load Reduction Requirement (lbs/yr)	15086	lbs/yr	258	lbs/yr	25	lbs/yr
WLA Reduction Requirement (TMDL Plan only)		lbs/yr		lbs/yr		lbs/yr

BMP IMPLEMENTATION

BMP Type	No. of BMPs	Pollutant Load Reductions Achieved (Credit)			
		TSS		TN	
Structural BMPs			lbs/yr		lbs/yr
Non-Structural BMPs	1	1986	lbs/yr	662	lbs/yr
Total		1986	lbs/yr	662	lbs/yr

Pollutant Load Reductions are documented on the following attachments:

- ☐ Attachment A – Infiltration BMPs No.: _____
- ☐ Attachment B – BMP Retrofits No.: _____
- ☐ Attachment C – Stream and/or Floodplain Restoration No.: _____
- ☒ Attachment D – Street Sweeping or Storm Drain Solids Removal No.: _____
- ☐ Attachment E – Tree Planting No.: _____
- ☐ Attachment F – Non-structural (Annual Practice) BMPs No.: _____
- ☐ BMP(s) have been implemented for which there are no attachments (*attach calculations*)

COMPLIANCE DETERMINATION

Were the pollutant load reduction requirements of the permit met? ☐ Yes ☒ No

If the pollutant load reduction requirements of the permit were **not met**, report the required load reductions remaining in lbs/yr and as a percentage of the total required load reduction.

	TSS		TN		TP	
Load Reduction Remaining	13100	lbs/yr	0	lbs/yr	0	lbs/yr
Percent of Required Load Reduction Remaining	81	%	0	%	0	%

If the pollutant load reduction requirements of the permit were not met, attach an explanation and provide a schedule for completing implementation of the PRP or TMDL Plan, including interim milestones.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

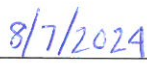
Mark R. Widdershim

Responsible Official Name

Evans City Borough Councilman

Official Title


Signature


Date Signed

ATTACHMENT A – INFILTRATION BMPs

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____
 BMP Name: _____ Latitude: _____
 Surface Waters: _____ Longitude: _____
 Municipality: _____ County: _____
☐ Construction of the BMP is Complete. Date Construction Completed: _____
☐ Photographs, Drawings, and O&M Plan are attached. Inspection/Monitoring Frequency: _____
 Permits or Approvals Obtained: _____
 Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____
 Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*
 Type of BMP (see instructions): _____
 BMP Effectiveness Values: TSS: _____ % TN: _____ % TP: _____ %
 Effectiveness Values Source: ☐ DEP ☐ CB Expert Panel Report ☐ Other: _____

BMP CONSTRUCTION

BMP Infiltrating Surface Area (ft²): _____ Ponding Depth (ft): _____ ☐ Underdrain
 Media Description: _____ Media Depth (ft): _____
☐ Vegetated Loading Ratio (see instructions): _____ WQ Storage Volume (ft³): _____

TSS LOAD DELIVERED TO BMP

Total Drainage Area Treated by BMP: _____ acres (Treatment Area)

TSS Load Delivered to BMP – Simplified Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS	Impervious			
	Pervious			
Total TSS Load Delivered to BMP (lbs/yr) =				

TSS Load Delivered to BMP – Land Cover-Based Calculation Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
Total TSS Load Delivered to BMP (lbs/yr) =				

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (_____ lbs/yr) x TSS Effectiveness Value (_____ %) = _____ lbs/yr TSS Credit
 Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

ATTACHMENT B – BMP RETROFITS

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____
 BMP Name: _____ Latitude: _____
 Surface Waters: _____ Longitude: _____
 Municipality: _____ County: _____
☐ Construction of the BMP is Complete. Date Construction Completed: _____
☐ Photographs, Drawings, and O&M Plan are attached. Inspection/Monitoring Frequency: _____
 Permits or Approvals Obtained: _____
 Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____
 Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*
 Effectiveness Values Source:
☐ DEP: BMP Type (Pre): _____ BMP Type (Post): _____
 Retrofit TSS Effectiveness Value: _____ % (Post – Pre Effectiveness Values)
☐ CB Expert Panel Report: ☐ Runoff Reduction (RR) ☐ Sediment Treatment (ST)
 RS (ac-ft): _____ IA (ac): _____ R/IA (in): _____ Retrofit TSS Effectiveness Value: _____ %

BMP CONSTRUCTION

BMP Infiltrating Surface Area (ft²): _____ Ponding Depth (ft): _____ ☐ Underdrain
 Media Description: _____ Media Depth (ft): _____
☐ Vegetated Loading Ratio (see instructions): _____ WQ Storage Volume (ft³): _____

TSS LOAD DELIVERED TO BMP

Total Drainage Area Treated by BMP: _____ acres (Treatment Area)

TSS Load Delivered to BMP – Simplified Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS	Impervious			
	Pervious			
Total TSS Load Delivered to BMP (lbs/yr) =				

Sediment Load Delivered to BMP – Land Cover-Based Calculation Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
Total TSS Load Delivered to BMP (lbs/yr) =				

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value = _____ lbs/yr TSS Credit
 Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

ATTACHMENT C – STREAM RESTORATION

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____
BMP Name: _____ Latitude: _____
Surface Waters: _____ Longitude: _____
Municipality: _____ County: _____
☐ Construction of the BMP is Complete. Date Construction Completed: _____
☐ Photographs, Drawings, and O&M Plan are attached*. Inspection/Monitoring Frequency: _____
Permits or Approvals Obtained: _____
Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____
Joint BMP? ☐ Yes ☐ No If Yes, attach a list of other permittees sharing credit for the BMP

STREAM RESTORATION TYPE

Stream Restoration – Default Rate: _____ Expert Panel Report Protocols (Select all that apply):
☐ Simplified Method (44.88 lbs/ft/yr) ☐ Protocol 1: Prevented Sediment
☐ Mapshed/Model My Watershed (115 lbs/ft/yr) ☐ Protocol 2: Instream and Riparian Nutrient Processing
☐ Protocol 3: Floodplain Reconnection
Does the restoration meet all the minimum qualifying conditions for stream restoration? ☐ Yes ☐ No

TSS LOAD REDUCTION – DEFAULT RATE

Total restoration length (center line of stream) (ft): _____
Restoration length stabilized using hard armoring (if applicable) (ft): _____
Restoration length armored by “Creditable w/Limits” practices (if applicable) (ft): _____
Percent of total restoration length armored by “Creditable w/Limits” practices (%): _____
Creditable restoration length (ft): _____
TSS Credit: Creditable restoration length (_____ ft) x Default Rate (_____ lbs/ft/yr) = _____ lbs/yr TSS
Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

POLLUTANT LOAD REDUCTIONS – EXPERT PANEL PROTOCOLS

Total restoration length (ft): _____ Floodplain area created (if applicable) (ac): _____
Protocol 1 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr
Protocol 2 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr
Protocol 3 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr
Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

*** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.**

ATTACHMENT D – STREET SWEEPING OR STORM SEWER SOLIDS REMOVAL

GENERAL INFORMATION

Permittee Name:	Evans City Borough	Permit No.:	PAG138337
BMP Name:	Street Sweeping	Latitude:	40°46'8.81" N
Surface Waters:	Breakneck Creek; UNTs: 35024, 35025, 35026, 35029, and 35030	Longitude:	80° 3'47.03" W
Municipality:	Evans City Borough	County:	Butler
☒ Required documentation is attached*.		Sweeping/Removal Frequency:	25/year
Joint BMP? ☐ Yes ☒ No <i>If Yes, attach a list of other permittees sharing credit for the BMP</i>			

CREDITING METHOD

BMP Type: ☒ Street Sweeping ☐ Storm Sewer Solids Removal

Expert Panel Report Advanced Sweeping Technology: ☐ SCP-1 (AST- 2 PW) ☐ SCP-2 (AST- 1 PW)
☐ SCP-3 (AST- 1 P2W) ☐ SCP-4 (AST- 1 P4W) ☐ SCP-5 (AST- 1 P8W) ☐ SCP-6 (AST- 1 P12W)
☐ SCP-7 (AST- S1 or S2) ☐ SCP-8 (AST- S3 or S4)

Expert Panel Report Mechanical Broom Technology: ☐ SCP-9 (MBT- 2PW) ☐ SCP-10 (MBT- 1 PW)
☐ SCP-11 (MBT- 1 P4W)

DEP Effectiveness Value Table: ☒ DEP Default

Expert Panel Report: ☐ Mass Loading – Street Sweeping ☐ Mass Loading – Solids Removal

Impervious area swept within planning area: 12 acres

BMP Effectiveness Values (if applicable): TSS: 9% TN: 3% TP: 3%

TSS LOAD REDUCTION – EFFICIENCY APPROACH

Sediment Load Generated by Impervious – Simplified Method

Pollutant	Land Cover	Area Swept (ac)	Loading Rate (lbs/ac/yr)	Generated Load (lbs/yr)
TSS	Impervious	12	1839	22068

Sediment Load Generated by Impervious – Land Cover-Based Calculation Method

Pollutant	Land Cover	Area Swept (ac)	Loading Rate (lbs/ac/yr)	Generated Load (lbs/yr)
TSS				
TSS				

Total:

TSS Load Generated by Impervious (22068 lbs/yr) x TSS Effectiveness Value (9%) = 1986 lbs/yr TSS

TSS LOAD REDUCTION – MASS LOADING APPROACH

Sediment Load Reduction (lbs of TSS collected)	Permit Year 1 (Y1)	Permit Year 2 (Y2)	Permit Year 3 (Y3)	Permit Year 4 (Y4)	Permit Year 5 (Y5)
	1986 lbs	1986 lbs	1986 lbs	1986 lbs	1986 lbs

Average annual TSS reduction (Y1 + Y2 + Y3 + Y4 + Y5) / 5 = 1986 lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): % or 1986 lbs/yr TSS

*** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.**

ATTACHMENT E – TREE PLANTING

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____
BMP Name: _____ Latitude: _____
Surface Waters: _____ Longitude: _____
Municipality: _____ County: _____

☐ Required documentation is attached*.

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

BMP TREATMENT AREA

DEP estimates that 100 fully mature trees of mixed species (both deciduous and non-deciduous) provide pollutant load reductions for the equivalent of one acre (i.e., one mature tree = 0.01 acre).

Trees Planted within Planning Area: _____ x 0.01 = BMP Treatment Area (ac): _____

TSS LOAD REDUCTION CREDIT

TSS loading rate for land prior to planting trees: _____ lbs/ac/yr TSS

Method used to determine existing loading rate prior to planting trees:

- ☐ Simplified Method – use pervious loading rate for county
- ☐ Land Cover-based calculation method – use loading rate for land cover type on which trees are planted

BMP effectiveness values for tree planting: TSS 20%; TN 10%; TP 15%

BMP Treatment Area (_____ ac) x TSS loading rate (_____) lbs/ac/yr x 20% = _____ lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS

*** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.**

ATTACHMENT F – NON-STRUCTURAL (ANNUAL PRACTICE) BMPs

GENERAL INFORMATION

Permittee Name: _____	Permit No.: _____
BMP Name: _____	Latitude: _____
Surface Waters: _____	Longitude: _____
Municipality: _____	County: _____

☐ Required documentation is attached*.

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

ELIGIBILITY AND BMP TYPE

Is the BMP located in the Planning Area? ☐ Yes ☐ No

Is the BMP required to meet regulatory requirements? ☐ Yes ☐ No

Permittees may only credit those reductions that will occur as a result of exceeding regulatory requirements.

BMP Type:

☐ Till – Low Residue ☐ Till – High Residue ☐ Conservation Till ☐ Cover Crops

☐ Other: _____

BMP Effectiveness Values: TSS: _____ % TN: _____ % TP: _____ %

Effectiveness Value Source:

☐ Chesapeake Bay Expert Panel Report ☐ Other: _____

BMP IMPLEMENTATION AREA

BMP Implementation Area: _____ acres

TSS Load Delivered to BMP – Simplified Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS	Impervious			
	Pervious			
Total TSS Load Delivered to BMP (lbs/yr) =				

TSS Load Delivered to BMP – Land Cover-Based Calculation Method

☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
Total TSS Load Delivered to BMP (lbs/yr) =				

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value = _____ lbs/yr TSS Credit

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

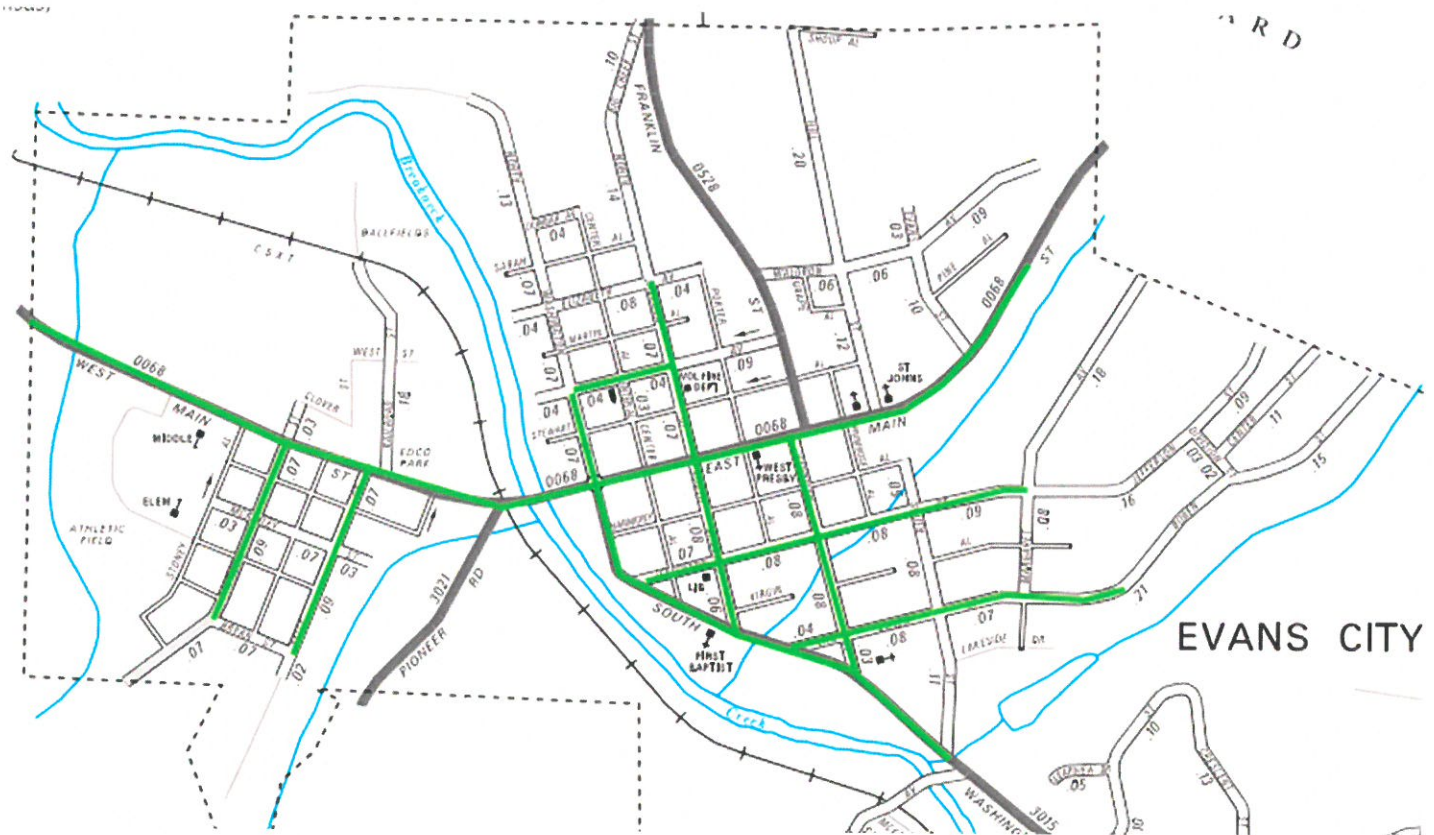
*** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.**

Pollution Reduction Plan Final Report Explanation

Evans City Borough was issued a 5-year NPDES Permit for their small separate storm sewer system (MS4) in December of 2018. The permit number is PAG138337 and was set to originally expire on March 15, 2023. DEP announced that the permit was to be extended until new information came out and a Notice of Intent was not needed to be completed. However, it was also announced that while the permit was extended, the requirements for the MS4 permit and Pollution Reduction Plan (PRP) were not. A PRP Final Report was completed for Evans City Borough, and it was determined that the required reductions were not met.

Evans City Borough completed annual street sweeping as their main focus on reducing sediment loading. The decision was made after a lot of thought on how they could achieve their set goal. There are many restrictions while looking at the Borough for implementing Best Management Practices due to the lack of open space to construct new projects. The Borough is considered "built out" meaning that there are no open spaces/parcels to build stormwater projects such as detention basins or enough room for a stream restoration with required bufferyards.

The Borough takes the MS4 program very seriously and strives to remove as much sediment as possible to meet the requirements of the permit. Street sweeping, while very costly, is on a very strict schedule to ensure the parameters to achieve the credit is accurate and true. 12 miles of road are swept resulting in a yearly reduction of 1,986 pounds of sediment. Please see the sweeping route in the photo below.



While the Borough is proud to claim the 1,986 pounds of sediment removal credit, it does not meet the requirements of a 10% total reduction. The Borough plans to continue these efforts of street sweeping and continue to search for other feasible options to meet the reduction requirements. One option that has been discussed is working with neighboring municipalities that have the room and ability to install/retrofit stormwater detention basins.

Evans City Borough is currently working with several surrounding communities on stormwater issues. The established group, including Jackson Township, Zelienople Borough and Harmony Borough have been working together since 2019 with the goal of improving the resident's and local businesses quality of life due to the frequent flooding that is experienced during heavy rain events. The group has already spent a significant amount of money on a study that determines release rates, problem areas to focus on and potential projects in each municipality. The group is currently working together on a possible regionalized stormwater fee to implement said projects. While determining the best way to approach a regionalized fee, efforts have been made to acquire grant funding for projects.

Evans City Borough is dedicated to reaching its 10% sediment reduction goal and hopes that by partnering with other members of the local stormwater group, they can make a joint effort to install projects in neighboring communities. There are several projects currently proposed, the details of how Evans City can contribute to said projects are still being discussed. The goal is to have the full 10% reduction completed by the end of 2026.