COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD 7/1/2022 TO JUNE 30, 2023

		GENER	AL INFO	RMA1	TION			
Permittee Name:	Strasburg E	Borough MS4		NPDE	S Permit No.:	PAG133	3715	
Mailing Address:	145 Precisi	on Ave		Effect	ive Date:	March 1	16, 2018	
City, State, Zip:	Strasburg,	PA 17579-9608		Expira	ation Date:	March 1	15, 2025	
MS4 Contact Person:	Steven Ech	nternach		Renev	wal Due Date:	Sept 15	, 2024	
Title:	Borough M	anager		Munic	ipality:	Strasbu	rg Borough	
Phone:	717-687-77	′32		County: Lancaster				
Email:	echterns@	Strasburgboro.org	9					
Co-Permittees (if applicate	ole):							
Appendix(ces) that permi	ttee is subjec	t to (select all that	apply):					
☐ Appendix	κ A 🛛 Appe	endix B 🔲 Apper	ndix C 🖂	Apper	ndix D 🛭 Apper	ndix E] Appendix I	F
		WATER QU	JALITY IN	IFORI	MATION			
Are there any discharges	to waters wit	hin the Chesapeak	ke Bay Wat	tershed	d? ⊠ Yes	☐ No		
Identify all surface waters (see instructions).	that receive	stormwater discha	arges from	the pe	rmittee's MS4 and	d provide	the requeste	d information
Receiving Water N	Name	Ch. 93 Class.	Impaired	d?	Cause(s)		TMDL?	WLA?
Walnut Run		WWF-MF	у		Nutrients, orga enrichment, low siltation		у	n
UNT-Little Beaver	Creek	TSF	у		Nutrients, orga enrichment, low siltatio		у	n
UNT-Pequea Cr	eek	WWF-MF	у		Nutrients, silta	ition	у	n
UNT - Pequea Ci	reek	WWF-MF	у		Nutrients, silta	ition	у	n

	GENERAL MINIMUM CONTROL	MEASURE (MCM) INFO	RMATION	
Ha	ve you completed all MCM activities required by the permit	for this reporting period?	⊠ Yes □ No	
Lis	t the current entity responsible for implementing each MCM	of your SWMP, along with co	ontact name and phor	ne number.
	мсм	Entity Responsible	Contact Name	Phone
#1	Public Education and Outreach on Storm Water Impacts	Borough	Steven Echternach	717-687- 7732
#2	Public Involvement/Participation	Borough	Steven Echternach	717-687- 7732
#3	Illicit Discharge Detection and Elimination (IDD&E)	Borough	Steven Echternach	717-687- 7732
#4	Construction Site Storm Water Runoff Control	LCCD	LCCD	717-299- 5361
#5	Post-Construction Storm Water Management in New Development and Redevelopment	Borough	Steven Echternach	717-687- 7732
#6	Pollution Prevention / Good Housekeeping	Borough	Steven Echternach	717-687- 7732
	MCM #1 - PUBLIC EDUCATION AND O	UTREACH ON STORM	WATER IMPACTS	
BN	IP #1: Develop, implement and maintain a written Public	c Education and Outreach P	Program.	
1.	For new permittees only, has the written PEOP been deve	eloped and implemented within	n the first year of perr	nit coverage?
	☐ Yes ☐ No			
2.	Date of latest annual review of PEOP: 3/16/207	Were updates made?	☐ Yes ⊠ No	
3.	What were the plans and goals for public education and o	utreach for the reporting perio	od?	
	As part of the fall newsletter, the Borough notified home was to discuss the master plan improvements the Bor issues they have in their neighborhood to see if it can be	ough and allow for input fro	m homeowners abo	
4.	Did the MS4 achieve its goal(s) for the PEOP during the re	eporting period?	s 🗌 No	
5.	Identify specific plans and goals for public education and	outreach for the upcoming yea	ar:	
	The Borough will continue to educate through public m with the public as well as with key stakeholders – fire, stormwater function, the Borough will also begin the prokey stakeholders in excessively-affected areas.	public works, and staff. Bed	cause of the creation	n of the SBA's
BN	IP #2: Develop and maintain lists of target audience gro	oups present within the area	s served by your M	S4.
1.	For new permittees only, have the target audience lists coverage?	been developed and impleme	ented within the first	year of permit
	☐ Yes ☐ No			
2.	Date of latest annual review of target audience lists: 3/16/	2017 Were update	s made?	⊠ No
BN	IP #3: Annually publish at least one educational item or	n your Stormwater Managen	nent Program.	

1.	For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?
	☐ Yes ☐ No
2.	Date of latest annual review of educational materials: 3/16/2017 Were updates made? ☐ Yes ☐ No
3.	Do you have a municipal website? Yes No (URL: www.strasburgboro.org)

	If Yes, what MS4-related material does it contain? Stormwater Management Ordinance, previous year's MS4 annual report, stormwater educational information and brochures, etc
4.	Describe any other method(s) used during the reporting period to provide information on stormwater to the public: Handouts of stormwater information is available at the Borough office
5.	Identify specific plans for the publication of stormwater materials for the upcoming year: Stormwater section/article in the newsletter to Borough residents with inviation to public meeting regarding stormwater master plan improvements. Exhibits will be provided to residents where master plan stormwater improvements are slated to occur in the upcoming years.
вм	P #4: Distribute stormwater educational materials to the target audiences.
dis	ntify the two additional methods of distributing stormwater educational materials during the previous reporting period (e.g., plays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill fers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).
Pa	mphlets, booklets, brochues and fact sheets are all available at the Borough office and website.
МС	M #1 Comments:
	During 2023, the Borough of Strasburg honored the Strasburg Borough Authority's (SBA) request to add stormwater to the existing operating Authority's prevue. This process has gone through legal and during the late summer of 2023, the Authority wa recognized as the stormwater operator. The SBA will now begin the process of determining how to fund said work and educate the community in the process of creating a comprehensive stormwater management operations policy for the entire Borough, which will be managed by the Authority. We look forward to addressing stormwater as a utility in the Borough of Strasburg.
	MCM #2 - PUBLIC INVOLVEMENT/PARTICIPATION
вм	P #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)
1.	For new permittees only, was the PIPP developed and implemented within one year of permit coverage?
	☐ Yes ☐ No
2.	Date of latest annual review of PIPP: 3/16/2017 Were updates made? ☐ Yes ☒ No
	P #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if blicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:
1.	Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? ☐ Yes ☒ No
2.	If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:
3.	If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

Ordinance / SOP / Plan Name	Date of Public Notice	Date of Public Hearing	Date Enacted or Submitted to DEP

	IP #3: Regularly solicit public involvement and participation from the target audience groups using available tribution and outreach methods.
1.	At least one public meeting or other MS4 event must be held during the 5-year permit coverage period to solicit participation and feedback from target audience groups. Was this meeting or event held during the reporting period?
2.	Report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed and conservation organizations; and similar instances of participation or coordination with organizations in the community.
	The Borough held a public meeting on May 9, 2023 and gave a full presenation on the completion of the Eshelman PRP project. It can be found on the Borough's https://strasburgboro.org/2023/05/11/eshelman-run-streambank-stabilization-ms4-project/
3.	Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.
	The Borough has been working with stakeholders in the area of a major stormwater project in what has been identified as Phase 1 Quadrant 3. As well as other areas of concern, specifically Clover Avenue and the Dallas/Ada Avenue areas. The goal for 2023-2024 is to move forward with the Phase 1 Quadrant 3 project as well as to look specifically at some of the smaller projects that could be managed by our existing Public Works staff under their new Authority charge.
МС	M #2 Comments:
	During 2023, the Borough of Strasburg honored the Strasburg Borough Authority's (SBA) request to add stormwater to the existing operating Authority's prevue. This process has gone through legal and during the late summer of 2023, the Authority was recognized as the stormwater operator. The SBA will now begin the process of determining how to fund said work and educate the community in the process of creating a comprehensive stormwater management operations policy for the entire Borough, which will be managed by the Authority. We look forward to addressing stormwater as a utility in the Borough of Strasburg.
	MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)
	IP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges of the regulated small MS4.
1.	For new permittees only, was the written IDD&E program developed within one year of permit coverage?
	☐ Yes ☐ No
2.	Date of latest annual review of IDD&E program: 3/16/2017 Were updates made? ☐ Yes ☒ No
an	IP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls d, if applicable, observation points, and the locations and names of all surface waters that receive discharges from use outfalls. Outfalls and observation points shall be numbered on the map(s).
1.	Have you completed a map(s) that includes all components of BMP #2? ☐ Yes ☐ No
	If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.
	If No, date by which permittee expects map(s) to be completed:
2.	Date of last update or revision to map(s): 6/1/2017

3.	Total No. of Outfalls in MS4: 13	Total No. of Outfalls Mapped: 13
4.	Total No. of Observation Points: 0	Total No. of Observation Points Mapped: 0
5.		ed any existing outfalls that have not been previously reported to DEP in an ew MS4 outfalls proposed for the next reporting period?
	☐ Yes ☒ No If Yes, select: ☐ I	Existing Outfall(s) Identified New Outfall(s) Proposed

per jur and col	IP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a differe rmittee shall develop and maintain map(s) that show the entire storm sewer collection system within the isdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basind any other components of the storm sewer collection system), including privately-owned componellection system where conveyances or BMPs on private property receive stormwater flows from upstreamed components.	permittee's s, channels, nents of the
1.	Have you completed a map(s) that includes all components of BMP #3? ⊠ Yes ☐ No	
	If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this re	port.
	If No, date by which permittee expects map(s) to be completed:	
2.	If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? \boxtimes Yes \square No	
3.	Date of last update or revision to map(s): 6/1/2017	
dis illic or nec	IP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. It is charges are present, the permittee shall identify the source(s) and take appropriate actions to remove or cit discharges. The permittee shall also respond to reports received from the public or other agencies confirmed illicit discharges associated with the storm sewer system, as well as take enforcement cessary. The permittee shall immediately report to DEP illicit discharges that would endanger users on the discharge, or would otherwise result in pollution or create a danger of pollution or would damage	correct any of suspected nt action as downstream
twi obs are	r new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weat ce within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and servation points) must be screen during dry weather at least once within the 5-year period following permit coverage where past problems have been reported or known sources of dry weather flows occur on a continual basis, screened annually during each year of permit coverage.	if applicable rage and, for
1.	How many unique outfalls (and if applicable observation points) were screened during the reporting period?	0
2.	Indicate the percentage of all outfalls screened in the past five years.	100%
3.	Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows:	0%
4.	Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? \square Yes \boxtimes No	
5.	If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the correctaken in the attachment.	ctive action(s)
6.	Do you use the MS4 Outfall Field Screening Report form (3800-FM-BCW0521) provided in the permit?	
	⊠ Yes □ No	
	If No, attach a copy of your screening report form.	
	IP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater rogram that includes prohibition of non-stormwater discharges to the regulated small MS4.	nanagement
1.	Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits no discharges? \boxtimes Yes \square No	n-stormwater
	If Yes, indicate the date of the ordinance or SOP: 9/13/22	
2.	If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance BCW0100j) with respect to authorized non-stormwater discharges? Yes No	e (3800-PM-
	If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP	۶.

3.		ny violations of the ordinance or SOP during	, ,,	Yes 🛛 No
	If Yes to #3, c	complete the table below (attach additional she	eets as necessary).	
Vi	olation Date	Nature of Violation	Responsible Party	Enforcement Taken
4.		ove any waiver or variance during the reporting an ordinance or SOP? $\ \square$ Yes $\ \boxtimes$ No	g period that allowed ar	n exception to non-stormwater discharge
	If Yes to #4, id	dentify the entity that received the waiver or va	ariance and the type of	non-stormwater discharge approved.
		e educational outreach to public employee nd elected officials (i.e., target audiences) a		
1.	Was IDD&E-r period? ⊠ Y	related information distributed to public emplo res No	byees, businesses, and	the general public during the reporting
	If Yes, what w	vas distributed? Annual newsletter, website,	handouts available	
2.	Is there a well	l-publicized method for employees, businesses	s and the public to repo	rt stormwater pollution incidents?
	⊠ Yes □ I	No		
3.	Do you mainta	ain documentation of all responses, action take	en, and the time require	ed to take action? ⊠ Yes □ No
MC	CM #3 Commer	nts:		
		MCM #4 – CONSTRUCTION SITE S	TORMWATER RUN	IOFF CONTROL
Are	e you relying on	PA's statewide program for stormwater assoc	ciated with construction	activities to satisfy this MCM?
	Yes No	, 0		,
(If	Yes, respond to	questions for BMP Nos. 1, 2 and 3 only in this	section. If No, respond	to questions for all BMPs in this section)
dis	turbance activ	mittee may not issue a building or other per vities requiring an NPDES permit unless th (i.e., not expired) under 25 Pa. Code Chapt	ne party proposing th	
		ng period, did you comply with 25 Pa. Code P or a county conservation district (CCD) has		
	⊠ Yes □ I	No Not Applicable (no building permit app	plications received)	

	BMP #2: A municipality or county which issues building or other permits shall notify DEP or the applicable CCD within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.
	During the reporting period, did you comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of receiving an application involving an earth disturbance activity of one acre or more)?
	☑ Yes ☐ No ☐ Not Applicable (no building permit applications received)
	BMP #3: Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.
	1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs? ☑ Yes ☐ No
	If Yes, indicate the date of the ordinance or SOP: 9/13/22
	2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
	3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.
	BMP #4: Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.
	Specify the number of E&S Plans you reviewed during the reporting period:
	BMP #5: Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.
	Specify the number of E&S inspections you completed during the reporting period:
	BMP #6: Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.
	Specify the number of enforcement actions you took during the reporting period for improper E&S:
	BMP #7: Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.
	Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:
	BMP #8: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.
Ì	1. A tracking system has been established for receipt of public inquiries and complaints. Yes No
	2. Specify the number of inquiries and complaints received during the reporting period:
	MCM #4 Comments:

MCM #5 - POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT BMP #1: Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance. 1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of post-construction stormwater management (PCSM) BMPs? X Yes X No. If Yes, indicate the date of the ordinance or SOP: 9/13/22 2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance 3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP. BMP #2: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment? X Yes No If Yes, indicate the date of the ordinance or SOP: 9/13/22 2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? ☐ Yes ☐ No If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP. BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale. 1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? X Yes No If Yes to #1, complete Table 1 on the next page. 2. Has proper O&M occurred during the reporting period for all PCSM BMPs? ☐ Yes ☒ No 3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M. The Borough has a goal to obtain full O&M documentation of all its BMPs over the next several years as part of the new Borough Stormwater Authority. The funding mechanisms associated with the Authority's creation will allow for a budget that supports O&M activities. If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section. BMP #4: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions. 1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale): n/a 2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs? ☐ Yes ☐ No

PCSM BMP INVENTORY

Table 1. To complete the information needed for MCM #5, BMP #3, list all <u>existing structural BMPs</u> that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information (see instructions).

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.
1	See Attached			0 1 11	0 , "			
2				0 , "	0 , ,,			
3				0 1 11	0 1 11			
4				0 , ,,	0 , ,,			
5				0 , ,,	0 , ,,			
6				0 , ,,	0 , ,,			
7				0 , ,,	0 , ,,			
8				0 , "	0 , ,,			
9				0 , "	0 , ,,			
10				0 , "	0 , ,,			
11				0 , "	0 , ,,			
12				0 , "	0 , ,,			
13				0 , "	0 , ,,			
14				0 , ,,	0 , ,,			
15				0 , ,,	0 , ,,			
16				0 , ,,	0 , "			

ins ins be	IP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall pect all qualifying development or redevelopment projects during the construction phase to ensure proper tallation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were t, installed properly).
1.	During the reporting period have you inspected all qualifying development and redevelopment projects during the construction phase to ensure proper installation of approved structural BMPs?
	☐ Yes ☐ No ☐ Not Applicable (no qualifying projects during reporting period)
2.	Has a tracking system been established and maintained to record results of inspections?
	☐ Yes ☐ No
BN MC	IP #6: Develop a written procedure that describes how the permittee shall address all required components of this M.
pla	ve you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in ns for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) plementation of an inspection program to ensure that BMPs are properly installed? Yes No
MC	M #5 Comments:
	MCM #6 - POLLUTION PREVENTION / GOOD HOUSEKEEPING
ge	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the mittee.
ge pe	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the
ge pe	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the rmittee. Have you identified all facilities and activities owned and operated by the permitee that have the potential to generate
gepe1.2.	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the rmittee. Have you identified all facilities and activities owned and operated by the permitee that have the potential to generate stormwater runoff into the MS4? ☑ Yes ☐ No
ger per 1. 2. 3. BM dis	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the rmittee. Have you identified all facilities and activities owned and operated by the permitee that have the potential to generate stormwater runoff into the MS4? Yes No When was the inventory last reviewed? 3/16/2017
ger per 1. 2. 3. BM dis	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the rmittee. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? Yes No When was the inventory last reviewed? 3/16/2017 When was it last updated? 3/16/2017 IP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the charge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or
ge pe 1. 2. 3. BM discon	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the rmittee. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? ☑ Yes ☐ No When was the inventory last reviewed? 3/16/2017 When was it last updated? 3/16/2017 IP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the charge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or neveyance systems within the regulated MS4.
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ge pe 1. 2. 3. BM dis co. 1. 2. BM pre	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the mittee. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? ☑ Yes ☐ No When was the inventory last reviewed? 3/16/2017 When was it last updated? 3/16/2017 IP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the charge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or nevance systems within the regulated MS4. Have you developed a written O&M program for the operations identified in BMP #1? ☑ Yes ☐ No Date of last review or update to written O&M program: 3/16/2017 IP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of eventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees
ge per 1. 2. 3. BM discontant	IP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for nerating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the mittee. Have you identified all facilities and activities owned and operated by the permitee that have the potential to generate stormwater runoff into the MS4? Yes No When was the inventory last reviewed? 3/16/2017 When was it last updated? 3/16/2017 IP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the charge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or neverance systems within the regulated MS4. Have you developed a written O&M program for the operations identified in BMP #1? Yes No Date of last review or update to written O&M program: 3/16/2017 IP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of eventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees discontractors shall receive training.

☐ Combined Chesapeake Bay / Impaired

☐ Combined PRP / TMDL Plan

Waters PRP

Α	·									
3.	Training topics covered:									
	Steve Echternach presented MS4 update of what needs to be done as well as a project review of the Eshelman Run Streambank Stabilization program and the need for O&M in conjunction with staff. This presentation in a similar format was also presented to Borough Council and the public in a public meeting held on May 9, 2023.									
4.	4. Name(s) of training presenter(s):									
	Steve Echternach, Borough Manager									
5.	Names of training attendees:									
	Steve Echternach, Borough Manager,	Borough Cou	ıncil Members							
MC	CM #6 Comments:									
POLLUTANT CONTROL MEASURES (PCMs)										
Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.										
	• •									
Та	sk		Date Completed	Attached	Anticipated Completion Date					
Та	orm Sewershed Map(s)		Date Completed 6/1/2017	Attached	Anticipated Completion Date					
Ta:					Anticipated Completion Date					
Ta: Sto	orm Sewershed Map(s)				Anticipated Completion Date					
Sto So Inv	orm Sewershed Map(s) urce Inventory	es			Anticipated Completion Date					
Sto So Inv	orm Sewershed Map(s) urce Inventory restigation of Suspected Sources	I	6/1/2017							
Sto So Inv	orm Sewershed Map(s) urce Inventory restigation of Suspected Sources dinance/SOP for Controlling Animal Waste M Comments: nd Studies has completed wet weather nual report.	testing / sam	6/1/2017	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	nd was attached to previous					
Sto So Inv	orm Sewershed Map(s) urce Inventory restigation of Suspected Sources dinance/SOP for Controlling Animal Waste M Comments: nd Studies has completed wet weather nual report.	testing / sam REDUCTION at and submiss	6/1/2017 pling in April 2022 I PLANS (PRPs) sion of a PRP and/or	for pathogens a AND TMDL P TMDL Plan was	nd was attached to previous LANS required as an attachment to the					
Store Soo Investment of the In	orm Sewershed Map(s) urce Inventory estigation of Suspected Sources dinance/SOP for Controlling Animal Waste M Comments: Ind Studies has completed wet weather nual report. POLLUTANT R Complete this section if the development	testing / sam REDUCTION at and submiss	pling in April 2022 I PLANS (PRPs) sion of a PRP and/or t, regardless of whe	for pathogens a AND TMDL P r TMDL Plan was apther DEP has ap	nd was attached to previous LANS required as an attachment to the					
Store Soo Investment of the In	orm Sewershed Map(s) urce Inventory restigation of Suspected Sources dinance/SOP for Controlling Animal Waste M Comments: Ind Studies has completed wet weather Inual report. POLLUTANT R Complete this section if the development latest NOI or application or was required	testing / sam REDUCTION at and submiss by the permi	pling in April 2022 I PLANS (PRPs) sion of a PRP and/or t, regardless of whe	for pathogens a AND TMDL P r TMDL Plan was apther DEP has ap	nd was attached to previous LANS required as an attachment to the proved the plan(s).					
Store Soo Involved PC La an	orm Sewershed Map(s) urce Inventory restigation of Suspected Sources dinance/SOP for Controlling Animal Waste EM Comments: Ind Studies has completed wet weather Inual report. POLLUTANT R Complete this section if the developmen latest NOI or application or was required Type of Plan	testing / sam REDUCTION at and submiss by the permi	pling in April 2022 I PLANS (PRPs) sion of a PRP and/or t, regardless of whe DEP Approval Date	for pathogens a AND TMDL P TMDL Plan was ther DEP has ap Surface V	nd was attached to previous LANS required as an attachment to the proved the plan(s). Vaters Addressed by Plan					

	loint Plan (if checked list the name of th	e MSA group or names of a	Il entities participating in the	a joint plan helow)					
	Joint Plan (if checked, list the name of the MS4 group or names of all entities participating in the joint plan below) Joint Plan Participants:								
2		utant land raduation require	monto un don the manneit (ac	a inaturationa)					
2.	Identify the pollutants of concern and poll	·	. ,	•					
	Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)					
\boxtimes	Chesapeake Bay PRP (Appendix D)	52594	390	3851					
\boxtimes	Impaired Waters PRP (Appendix E)	52594	390	3851					
	TMDL Plan (Appendix F)								
	Combined Chesapeake Bay / Impaired Waters PRP								
	Combined PRP / TMDL Plan								
3.									
5.	The Borough completed the Eshelman Streambank restoration project in November 2022. This 417 LF streambank restoration project resulted in a pollant reduction of 47,955lb/yr. In total, the Borough's two completed PRP projects during the permit cycle have resulted in a total annual reduction in sediment of 72,705lb/yr, well exceeding the load reduction of 52,594lb/yr required. Therefore, the Borough has exceeded it's sediment load reduction by 20,111 lb/yr which is to be banked in the manner deemed appropirate by PADEP.								
	550 LF to fully complete the entire length of streambank. Even though polluntat reduction goals have already been met and it is unclear what "banked" credit could be obtained, the Borough is committed to furthing progress in it's clean water program and is working with Center for Watershed Protection in this effort to fully stabilizing this entire stream cooridor.								
PR	P/TMDL Plan Comments:								

The Borough, as part of its Master Plan Stormwater Improvements, have worked with Center for Watershed Protection (CWP) to complete an inventory of the Borough and look for BMP retrofit oppurtunties. CWP conducted site investigations around the Borough and provided the Borough with a final report documenting their findings, oppurtunties for BMP retrofits and polluntant reduction areas, and a grade for each BMP oppurtunity. That Report is attached.

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all <u>new structural BMPs</u> installed and <u>ongoing non-structural BMPs</u> implemented <u>during the reporting period</u> that are being used toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
2	Eshelman Streambank	116	70	417	feet	39°59'17.12"	76°11'3.01"	12/2022			47,955
						0 , "	0 , "				
						0 , "	0 , ,,				
						0 , ,,	0 , ,,				

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all <u>existing structural BMPs</u> that have been installed in <u>prior reporting periods</u> and are eligible to use toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspect -ion	Satis- factory?
1	Mill Bridge Campground Streambank and Buffer	41.3	30	920	feet	40°0'36"	-76°9'43"	2019	24,750	2021	
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						0 , "	0 , ,,				
						0 , "	0 , "				
						0 , "	0 , "				

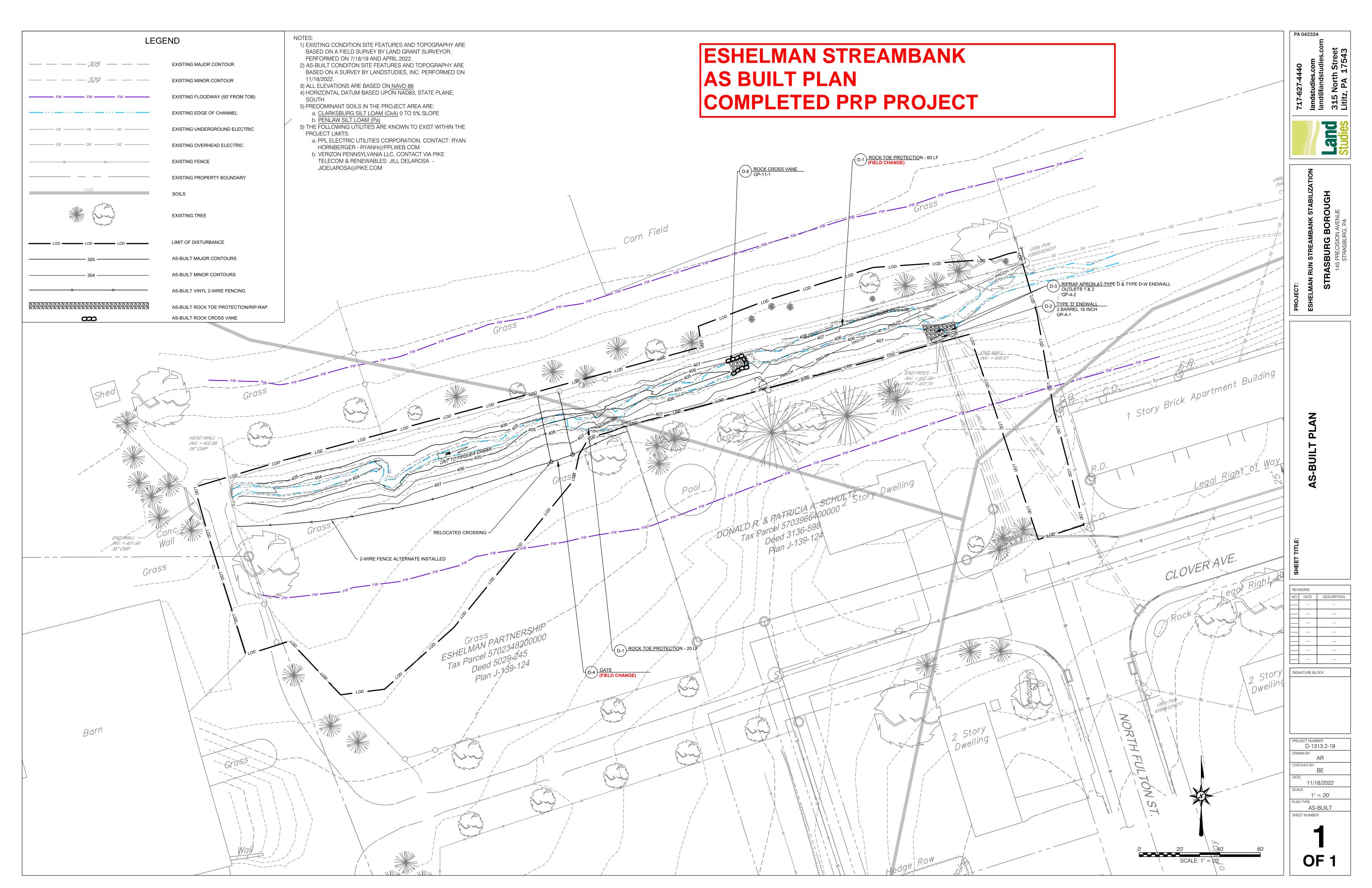
CERTIFICATION

For PAG-13 Permittees: I have read the latest PAG-13 General Permit issued by DEP and agree and certify that (1) the permittee continues to be eligible for coverage under the PAG-13 General Permit and (2) the permittee will continue to comply with the conditions of that permit, including any modifications thereto. I understand that if I do not agree to the terms and conditions of the PAG-13 General Permit, I will apply for an individual permit within 90 days of publication of the General Permit. I also acknowledge that any facility construction needed to comply with the General Permit requirements shall be designed, built, operated, and maintained in accordance with operative laws and regulations.

For All Permittees: I certify under penalty of law that this report was 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 knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Derrick Musser,	Tull
ELA Group, Inc Borough Engineer	
Name of Responsible Official	Signature
717-626-7271	9/28/23
Telephone No.	Date

Infiltration Bed (INF 2-1) 39.984313 -76.194993 Subsurface Infiltration Bed PAG2003004096 2.26	2005-2006 2005-2006 2005-2006 2005 2005 2005 2003
Historic Strasburg Pharmacy Detention Infiltration Basin 39.988062 -76.178439 Infiltration Detention Basin PAG2003603066 Stephen Smoker Strasburg Fire Company Basin A 39.980856 -76.185444 Detention basin PAG2003604086 Strasburg Fire Dept, 3.79 Swale Swale Swale Strasburg Fire Dept, 4.76.185992 Swale	
Strasburg Fire Company Basin A 39.980856 -76.185444 Detention basin PAG2003604086 Strasburg Fire Dept, 3.79 Swale Attn: Willis Lefever, Jr.,	2003
Strasburg Fire Company Swale Swale 39.981575 -76.185992 Swale PAG2003604086 Attn: Willis Lefever, Jr.,	
Re-vegetation 130 deciduous tree & 23 evergreen	2006 2006
Wetland/Basin 2 39.984302 -76.172653 Soil Amendments Basin 2 21.62 Amended soil PAG200360691, Charter Homes /	not complete yet
Strasburg Commons 39.98694 -76.178126 Detention Basin 1 Street Sweeping 39.98694 -76.178126 Onsite Sweeping Onsite Sweeping	2019
Swale 1 39.985960 -76.178121	2007-2008
Swale 2 39.985506 -76.177106 Swales Infiltration Basin 39.988053 -76.178547 Infiltration Basin Stephen Smoker	2007-2008
Swale 1 39 988086 -76 177300 Swale PAG2003605058 Historic Properties	2007
Strasburg Business Place PAG2003605058 Partners Wetland 39.988053 -76.178547 Artificial Wetland (Revised 2014) 717-687-7008 6.43 Lampter Strasburg	2014
Strasburg Elementary School 39.980867 -76.182804 PAG2003606076 School District	
Detention Basin detention Basin Terry Sweigart-Business 4.52	2006
P1A 39.984981 -76.172858 InfiltrationBasin 1.8	
P1B 39.985583 -76.173083 Infiltration Basin Lancaster Dutch 1.19	
Holiday Inn / Historic Strasburg P1D 39.984889 -76.174509 Infiltration Basin PAG02003614004 Hospitality 1.91 Inn RG1 39.98549 -76.173674 Rain Garden PAG02003614004 B.C. Desai 0.18	
RG2 39.984845 -76.172985 Rain Garden 717-926-8610 0.39	
SW1 39.985389 -76.173954 Swale	
SW2 39.984828 -76.173193 Swale	
Basin1 39.989149 -76.176486 Subsurface Infiltration Basin 1.24	
Basin 2 39.989179 -76.175915 Infiltration Basin 0.41	
Rutter's Basin 3 39.988329 -76.176375 Subsurface Infiltration Basin PAG02003616023 M&G Realty, Inc. 1.58 Street Sweeping Tim Rutter	
I-1, I-2, I-4, I-5, I-6, I-9 Water Quality Inlet 717-771-5970	
Basin A 39.98821 -76.1795501 underground detention basin 1.3	
Basin B 39.988575 -76.179033 Aboveground detention basin 1.08 Landscape Restoration Ephrata National Bank	
Ephrata National Bank Soil Amendments Landscape Restoration PAC360065 717-733-4181 Landscape Restoration	2017-2018



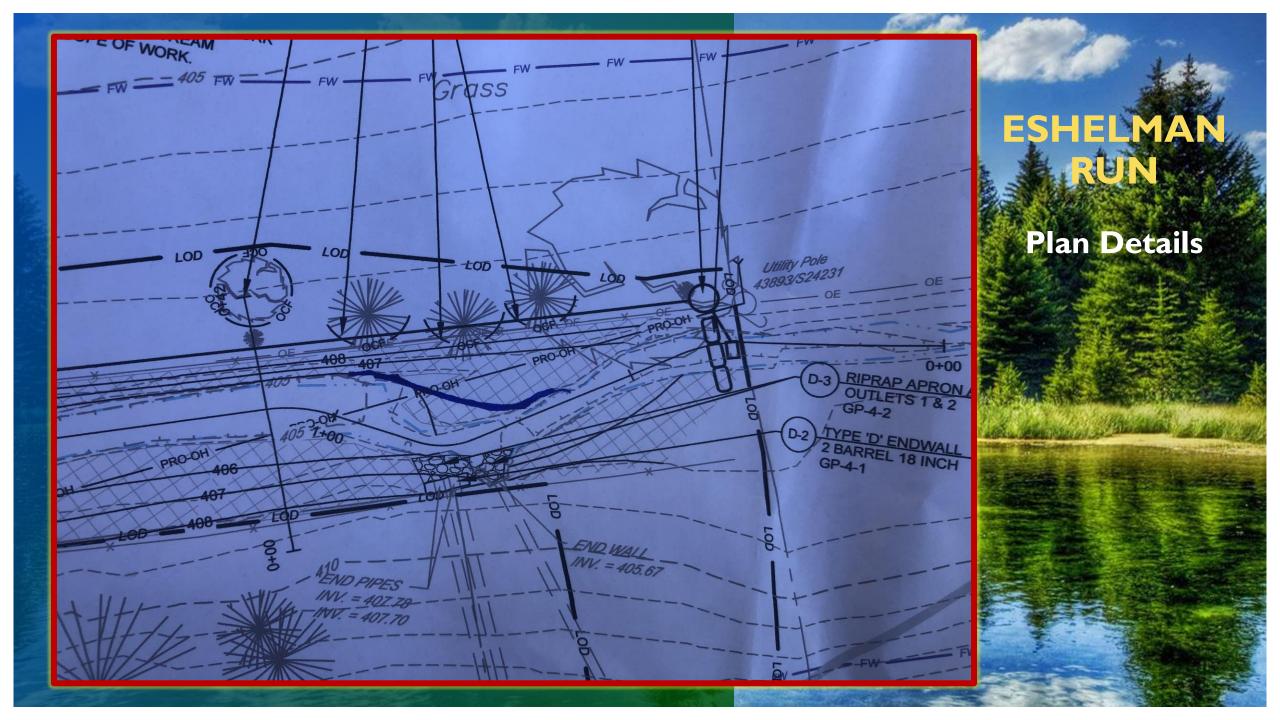




BEFORE

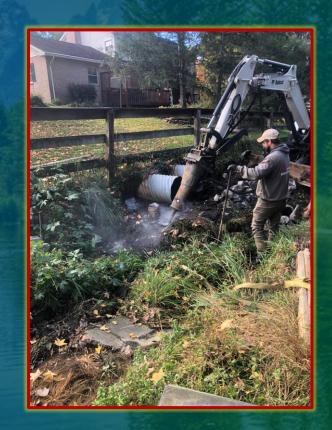


AFTER



October 19, 2022







CONSTRUCTION BEGINS...

October 21, 2022



GEOTEXTILE
MATERIAL &
BOLDERS TO
BE USED FOR
STREAMBANK
STABILIZATION



October 21, 2022











October 31, 2022





October 31, 2022





CONTINUED PROGRESS...



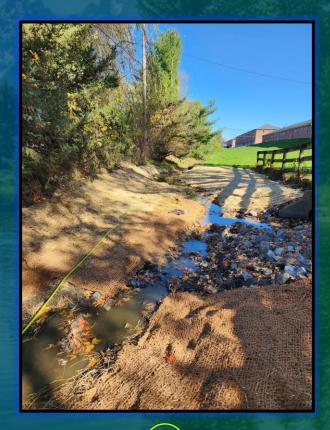
November 7, 2022





November 7, 2022







November 10, 2022

FINANCIAL PROJECT SUMMARY

Award: \$303,400

Cost: \$117,981 Construction

\$ 38,148 Design & Engineering

\$ 2,819 Conservation Development Plan

\$ 8,582 Administration

\$167,530 Total (Actual Cost)



May 9, 2023

PROJECT SUMMARY

- Eshelman Run Streambank Stabilization project was completed in November 2022.
- Final as-built stream restoration length is 417 linear feet, with native riparian buffer on both sides of the stream, and a livestock exclusionary fence.
- Based on this as-built length, sediment load reduction is calculated to be 47,955 lbs./year for the project.



OUR PARTNERS: Lancaster Clean Water Partnership, Glenn and Shirley Eshelman, Land Studies, & ELA Group





315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660

www.landstudies.com

No. 01706 **Date:** 06/08/2023

Project Name:

Eshelman stream bank stabilization maintenance

Foreman's Name:

Zach Groff

Work Completed

Invasive Plant Control (Herbicide Application)
Invasive Plant Control (Hand Removal)

Maintenance Notes

Spot treatment of Japanese hops, mugwort, bush honeysuckle, mulberry, poison hemlock, pokeweed

Cut small patch of reed canary at the western end

Future Maintenance Needed

All work completed until next maintenance visit



315 North St. Lititz, PA 17543
Phone: (717) 627-4440 Fax: (717) 627-4660
www.landstudies.com

No. 01706 **Date:** 06/08/2023





315 North St. Lititz, PA 17543
Phone: (717) 627-4440 Fax: (717) 627-4660
www.landstudies.com

No. 01706 **Date:** 06/08/2023





315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 www.landstudies.com No. 01706 **Date:** 06/08/2023





315 North St. Lititz, PA 17543
Phone: (717) 627-4440 Fax: (717) 627-4660
www.landstudies.com

01821 **Date:** 07/28/2023

No.

Project Name:

Eshelman Run

Foreman's Name:

Ops3 Field

Work Completed

Invasive Plant Control (Herbicide Application)

Maintenance Notes

Probably would need to string trim along the fence on the down stream portion of the floodplain during sometime in late August /September

Future Maintenance Needed

All work completed until next maintenance visit



315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 www.landstudies.com 01821 **Date:** 07/28/2023

Image 1 Description

Area that can be string trimmed in the next couple months



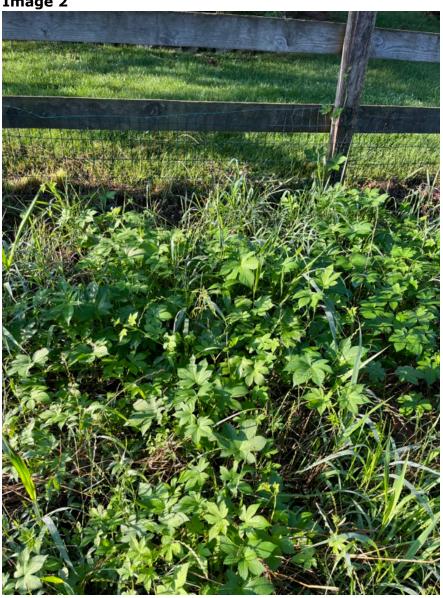


315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 www.landstudies.com

01821 Date: 07/28/2023

Image 2 Description

Japanese Hops throughout entire site





315 North St. Lititz, PA 17543
Phone: (717) 627-4440 Fax: (717) 627-4660
www.landstudies.com

01821 **Date:** 07/28/2023

Image 3 Description

Upstream view of restoration





315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 **Date:** 09/06/2023

No.

01910

www.landstudies.com

Eshleman run

Foreman's Name:

Ops3 Field

Work Completed

Invasive Plant Control (Herbicide Application)

Invasive Plant Control (Weed eating)

Maintenance Notes

Spot treat Japanese hops, mugwort, thistle and string trim along fence

Future Maintenance Needed

All work completed until next maintenance visit



315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 www.landstudies.com 01910 **Date**:

09/06/2023

Image 1 Description

Looking upstream from cattle crossing





315 North St. Lititz, PA 17543 Phone: (717) 627-4440 Fax: (717) 627-4660 www.landstudies.com 01910 **Date:** 09/06/2023

Image 2 Description

String trimmed area along fence line





315 North St. Lititz, PA 17543
Phone: (717) 627-4440 Fax: (717) 627-4660
www.landstudies.com

No.
01910
Date:
09/06/2023