



ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD July 1, 2022 TO JUNE 30, 2023

GENERAL INFORMATION					
Permittee Name:	Londonderry Township	NPDES Permit No.:	PAG133547		
Mailing Address:	783 South Geyers Church Road	Effective Date:	7/1/18		
City, State, Zip:	Middletown PA 17057	Expiration Date:	6/30/2025		
MS4 Contact Person:	Monique Dykman	Renewal Due Date:	1/30/2025		
Title:	MS4 Environmental Specailist	Municipality:	Londonderry Township		
Phone:	717-461-0027	County:	Dauphin		
Email:	mdykman@londonderrypa.org				
Co-Permittees (if applicable):					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input type="checkbox"/> Appendix C <input checked="" type="checkbox"/> Appendix D <input checked="" type="checkbox"/> Appendix E <input type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).					
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
See attached Appendix A Water Quality					

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? Yes No

List the current entity responsible for implementing each MCM of your SWMP, along with contact name and phone number.

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	Londonderry Township	Monique Dykman	717-461-0027
#2 Public Involvement/Participation	Londonderry Township	Monique Dykman	717-461-0027
#3 Illicit Discharge Detection and Elimination (IDD&E)	Londonderry Township	Monique Dykman	717-461-0027
#4 Construction Site Storm Water Runoff Control	Dauphin County Conservation District	Monique Dykman	717-461-0027
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Dauphin County Conservation District	Monique Dykman	717-461-0027
#6 Pollution Prevention / Good Housekeeping	Londonderry Township	Monique Dykman	717-461-0027

MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

BMP #1: Develop, implement and maintain a written Public Education and Outreach Program.

- For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?
 Yes No
- Date of latest annual review of PEOP: 3/14/2023 Were updates made? Yes No
- What were the plans and goals for public education and outreach for the reporting period?
See attached Appendix B MCM#1 (Figure 1)
- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? Yes No
- Identify specific plans and goals for public education and outreach for the upcoming year:
Future plans and goals will follow objectives set in the BMP manual for pervious permits, see attached Appendix B MCM#1 (Figure 1).

BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4.

- For new permittees only, have the target audience lists been developed and implemented within the first year of permit coverage?
 Yes No
- Date of latest annual review of target audience lists: 3/14/2023 Were updates made? Yes No

BMP #3: Annually publish at least one educational item on your Stormwater Management Program.

- 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?

**3800-FM-BCW0491 9/2017
Annual MS4 Status Report**

Yes No

2. Date of latest annual review of educational materials: 7/15/23

Were updates made? Yes No

3. Do you have a municipal website? Yes No (URL:
www.londonderrypa.org)

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BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution 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?
 Yes No If Yes, Date of Meeting or Event: MS4 Environmental Specialist attends Board of Supervisors meetings monthly and gives updates. See attached Appendix C MCM#2 (Figure 1).
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 Township partnered with a variety of local organizations to discuss opportunities. See attached Appendix C MCM #2 (Figure 2).
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 Township and partnering organizations held 2 events to engage the public. See attached Appendix C MCM#2 (Figure 3).

MCM #2 Comments:

All supporting documents are attached as Appendix C MCM#2.

MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

BMP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges into 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: 8/2/22 Were updates made? Yes No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those 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): 8/9/2023
3. Total No. of Outfalls in MS4: 100 Total No. of Outfalls Mapped: 335
4. Total No. of Observation Points: 0 Total No. of Observation Points Mapped: 0
5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?

Yes No

If Yes, select: Existing Outfall(s) Identified New Outfall(s) Proposed

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.

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 report.

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? Yes No

3. Date of last update or revision to map(s): 9/8/23

BMP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property.

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screen during dry weather at least once within the 5-year period following permit coverage and, for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? 19

2. Indicate the percentage of all outfalls screened in the past five years. 94%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 11%

4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? Yes No

5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.

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.

BMP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? Yes No

If Yes, indicate the date of the ordinance or SOP: 5/1/2023

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? Yes No

If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

3. Were there any violations of the ordinance or SOP during the reporting period? Yes No

If Yes to #3, complete the table below (attach additional sheets as necessary).

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken
See attached Appendix D MCM#3 (Figure 2)			

4. Did you approve any waiver or variance during the reporting period that allowed an exception to non-stormwater discharge provisions of an ordinance or SOP? Yes No

If Yes to #4, identify the entity that received the waiver or variance and the type of non-stormwater discharge approved.

BMP #6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? Yes No

If Yes, what was distributed? Information regarding IDD&E was included in the Township Newsletter, Website, etc. See Appendix B MCM#1 (Figure 2 & 3)

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?
 Yes No

3. Do you maintain documentation of all responses, action taken, and the time required to take action? Yes No

MCM #3 Comments:

All supporting documentation can be found in Appendix C MCM#3.

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Are you relying on PA's statewide program for stormwater associated with construction activities to satisfy this MCM?

Yes No

(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)

BMP #1: The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.

During the reporting period, did you comply with 25 Pa. Code § 102.43 (relating to withholding building or other permits or approvals until DEP or a county conservation district (CCD) has approved NPDES permit coverage)?

Yes No Not Applicable (no building permit applications 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: 05/01/2023

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.

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:

Memorandum of Understanding with Dauphin County Conservation District, see attached Appendix E MCM#4 (Figure 2).

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? Yes No
If Yes, indicate the date of the ordinance or SOP: 5/1/2023
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 #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.

1. 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? Yes No
If Yes, indicate the date of the ordinance or SOP: 5/1/2023
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 #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? 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.

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):
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 existing structural BMPs 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 Appendix F MCM #5 (Figure 2)			o ' "	o ' "			
2				o ' "	o ' "			
3				o ' "	o ' "			
4				o ' "	o ' "			
5				o ' "	o ' "			
6				o ' "	o ' "			
7				o ' "	o ' "			
8				o ' "	o ' "			
9				o ' "	o ' "			
10				o ' "	o ' "			
11				o ' "	o ' "			
12				o ' "	o ' "			
13				o ' "	o ' "			
14				o ' "	o ' "			
15				o ' "	o ' "			
16				o ' "	o ' "			

BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, 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

BMP #6: Develop a written procedure that describes how the permittee shall address all required components of this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? Yes No

MCM #5 Comments:

All supporting documentation can be found in Appendix F MCM #5

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the permittee.

1. 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
2. When was the inventory last reviewed? 7/5/2023
3. When was it last updated? 7/5/2023

BMP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4.

1. Have you developed a written O&M program for the operations identified in BMP #1? Yes No
2. Date of last review or update to written O&M program: 3/14/2023

BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees and contractors shall receive training.

1. Have you developed an employee training program? Yes No
2. Date of last review or update to training program: 6/20/23 Date of latest training: 1/12/23

3. Training topics covered:
See attached Appendix G MCM#6 (Figure 1&2)
4. Name(s) of training presenter(s):
See attached Appendix G MCM#6 (Figure 2)
5. Names of training attendees:
See attached Appendix G MCM#6 (Figure 2)

MCM #6 Comments:

All supporting documentation can be found in Appendix G MCM #6.

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.

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)	9/13/17	<input type="checkbox"/>	9/30/23
Source Inventory	9/18/20	<input type="checkbox"/>	
Investigation of Suspected Sources	7/15/22	<input type="checkbox"/>	9/30/22
Ordinance/SOP for Controlling Animal Wastes		<input type="checkbox"/>	N/A

PCM Comments:

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

1. Complete this section if the development and submission of a PRP and/or TMDL Plan was required as an attachment to the latest NOI or application or was required by the permit, regardless of whether DEP has approved the plan(s).

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			Chesapeake Bay
<input type="checkbox"/> Impaired Waters PRP (Appendix E)			
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input checked="" type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP	5/31/23	6/14/23	Chesapeake Bay, Conewago Creek, Swatara Creek
<input type="checkbox"/> Combined PRP / TMDL Plan			

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. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).

Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			
<input type="checkbox"/> Impaired Waters PRP (Appendix E)			
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input checked="" type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP	40,377		
<input type="checkbox"/> Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: 5/1/2023

4. Have any modifications to the plan(s) occurred since DEP approval? Yes No

If Yes to #4, was the updated plan(s) submitted to DEP? Yes No

If Yes to #4, did you comply with the public participation requirements of the applicable appendix? Yes No

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

PRP project is complete and reduction goals have been met.

6. Anticipated activities for next reporting period.

Reduction goals have been met, and we will preform O&M as necessary.

PRP/TMDL Plan Comments:

During CB PRP preparation, a presumptive approach was taken which assumed that once 10% sediment load reduction was achieved, the corresponding required nutrient load reductions would also be achieved. Therefore the pollutant load reduction requirements for TP and TN were not calculated.

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all new structural BMPs installed and ongoing non-structural BMPs implemented during the reporting period 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)
1	Conewago Creek Stream Restoraiton	n/a		7865	feet	40°10'6"	76°38'11"	7/24/2023	<input checked="" type="checkbox"/>	<input type="checkbox"/>	55426
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all existing structural BMPs that have been installed in prior reporting periods 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 Inspection	Satisfactory?
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>

						o ' "	o ' "				<input type="checkbox"/>
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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).

Monique Dykman

Name of Responsible Official

7174610027

Telephone No.



Signature

9/27/2023

Date

Londonderry Township

Dauphin County

Annual Report 2022-2023

PAG-13 Permit # PAG133547

- MCM 1
 - BMP 1 met through document labeled PEOP.
 - BMP 2 met through BMP 1-4 and is reviewed annually. See most current list on page 9.
 - BMP 3 met through BMP 1.
 - BMP 4 met through BMP 1-4.
- MCM 2
 - BMP 1 met through document labeled PIPP.
 - BMP 2 met through BMP 1.
 - BMP 3 met through BMP 5.
- MCM 3
 - BMP 1 met through document labeled IDD&E.
 - BMP 2 met through BMP 1.
 - BMP 3 met through BMP 1.
 - BMP 4 met through BMP 3.
 - BMP 5 met December 2010.
 - BMP 6 met through BMP 2.
- MCM 4
 - BMP 1 met through Memorandum of Understanding with DCCD.
 - BMP 2 met through Memorandum of Understanding with DCCD.
 - BMP 3 met through BMP 1 and Memorandum of Understanding with DCCD.
- MCM 5
 - BMP 1 met through ordinance updated 08/01/2022.
 - BMP 2 met through BMP 1.
 - BMP 3 met through BMP 2 & 3.
- MCM 6
 - BMP 1 demonstrated via table, under BMP Manual MCM #6.
 - BMP 2 met through BMP 2.
 - BMP 3 met through BMP 3.

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Appendix A – Water Quality

Receiving Water Name	Ch. 93 Class	Impaired?	Cause(s)	TMDL?	WLA?
Susquehanna River	WWF, MF	Yes	PCB	No	No
Swatara Creek	WWF, MF	No		No	No
Conewago Creek	TSF, MF	Yes	Nutrients	Yes	No
Iron Run	WWF, MF	Yes	Siltation	No	No
Lynch Run	TSF, MF	Yes	Siltation	Nyes	No
UNT 09364 to Swatara Creek	WWF, MF	No		No	No
UNT 09235 to Lynch Run	TSF, MF	Yes	Unknown	Yes	No
UNT 09374 to Iron Run	WWF, MF	No		No	No
UNT 09375 to Swatara Creek	WWF, MF	No		No	No
UNT 09375 to Swatara Creek	WWF, MF	Yes	Siltation	No	No
UNT 09243 to Conewago Creek	TSF, MF	Yes	Suspended Solids	Yes	No

Appendix B – MCM 1

Appendix B MCM 1 (Figure 1)

PEOP

Londonderry Township

MCM #1: Public Education and Outreach on Storm Water Impacts

- **BMP1:** Develop, implement, and maintain a written Public Education and Outreach Program (PEOP).
- **BMP2:** Develop and maintain lists of target audience groups; including schools, businesses in urbanized areas, residents, farmers and municipal employees.
- **BMP3:** Publish public outreach campaigns including but not limited to; posters, pamphlets, web-publishing will be updated quarterly, or as necessary.
- **BMP4:** Distribute stormwater educational materials and information marketing to the target audiences.
- **BMP5:** Operations training program for Township staff, Public Works, and Golf Course Maintenance (See MCM #6)

Londonderry Township, Dauphin County, PA is a Township of approximately 5,200 residents that has decided to conduct a general outreach campaign using the bi-annual newsletter and other outreach materials to reach the majority of their residents. The Township has also identified other key areas to focus attention; including school aged children, local business owners, farmers, and other campaign materials like posters. Londonderry Township proposes the following BMPs and measurable goals in order to best motivate the local community:

Minimum Measure BMP: The Township will educate the general public by making about 10,000 impressions per year with a storm water quality message via print, web publishing, or other appropriate media. Using the Delaware DOT as a reference the goal is to reach 2 impressions per person per year. (2 impressions/year x 5,200 residents ≈ 10,000 impressions)

- **BMP1: *Develop, implement, and maintain a written Public Education and Outreach Program (PEOP)***
 - The township will publish stormwater articles in the spring and fall newsletters and continually update the environmental section of its website with information regarding: stormwater BMPs, stormwater management for homeowners, volunteer opportunities, and illicit discharge detection.
 - The website contains a link for users to report a stormwater concern and additional education links to organizations such as Stormwater PA, Chesapeake Bay Foundation, Alliance for the Chesapeake Bay, Center for Watershed Protection, DEP, and EPA.
 - The township will update its Facebook page monthly, with information regarding stormwater management for homeowners, volunteer opportunities, and illicit discharge detection.
 - The Township will present stormwater education material monthly, at each Board of Supervisors meeting. These presentations will address what the Environmental Department is currently working on and any volunteer opportunities for residents. Each permit year, a public stormwater awareness meeting will be held at the Board of Supervisors meeting. The presentation will address general stormwater management concepts, the Township's MS4 program, and the MS4 permit.
 - The Township will provide yearly education to BOS, office staff, Public Works and Golf Course employees. (See MCM#6)
 - The Township will post information regarding projects, stormwater BMPs, illicit discharge reporting, and stormwater management information at Sunset Park and Sunset Golf Course. Posters will be affixed to each of the three pavilions, snack bar, and on the sign at the entrance of the walking trail. Posters will also be affixed on the front and back doors of the Sunset Golf Course Clubhouse.

- The Township will utilize table space in its meeting room to provide visitors with stormwater management pamphlets and flyers.
- The Township will utilize a bulletin board in the central hallway to provide visitors with stormwater management education and information. This information will be updated annually.
- **BMP2: Develop and maintain lists of target audience groups; including schools, businesses in urbanized areas, residents and municipal employees.**
 - ***See excel sheet for specifics within audiences.***
 - ***Schools:*** Londonderry website was recently updated with a “Resources for Students” tab.
 - During the school year, the Township will collaborate with the Londonderry Elementary School to host an Earth Day celebration (in conjunction with Earth Week) to educate students (targeting grades 3-5) about water pollution and conservation that will culminate with an action project.
 - **Accountability:** Educating school children on storm water and water quality practices, including water conservation measures, will help promote better public awareness. Londonderry Township wants to encourage youth to participate, educate, and support their local community. Londonderry’s youth outreach program also receives guidance and assistance from Penn State Extension and the 4H “Stream Teams” program. The Township maintains lesson plans from previous environmental programs in order to continue to expand and improve these presentations.
 - **Businesses in urbanized areas:** Outreach materials on proper stormwater management practices for businesses will be sent out during the third quarter of the current permit year (Nov-January).
 - The Township will also make available stormwater education materials for construction permit applicants such as developers, construction managers, residents, and contractors.
 - The Township will send an environmental questionnaire with the annual junk yard permit applications. The questionnaire allows the department to evaluate the permittees knowledge of stormwater management. An MS4 representative from the Township will accompany the Codes and Zoning Officer to inspect each junk yard property. Any violations/suggestions will be noted. An informational sheet regarding junk yard best practices for stormwater management will be provided to permit applicants on the day of inspection.

- These materials can be used at Township events, golf course events, Sunset Park events, and other gatherings within the Township to increase exposure to this issue. In addition, the Township will use these outreach materials to pass out to; permit applicants and target audiences.
 - **Accountability:** By having material to pass out and place at different locations, the Township can utilize different techniques to spread the message. The Township will emphasize distributing educational materials to construction permit applicants, agriculture groups, businesses, schools, and local residents. This targeted education campaign will make local groups aware of illegal practices and inform them of potential fines for not following proper procedures.
- **BMP4: Distribute stormwater educational materials and information marketing to the target audiences.**
 - **Residents:** Outreach materials on stormwater, volunteer opportunities and BMP practices will be included in each issue of the Newsletter, as well as posted on the website.
 - **Businesses in urbanized areas:** Outreach materials on proper stormwater management practices for businesses will be sent out during the third quarter of the current permit year (Nov-January).
 - **Local farmers:** Outreach material on proper storm water management practices for Township farmers distributed to property owners utilizing land for farm space. The Township will host a Farmer’s Field Day in conjunction with Partner Organizations.

Reviewed 3/14/2023

Reviewed 3/14/2022

Updated to reflect current Township Programs 3/24/2021

Updated to reflect current Township programs and abilities 1/8/2021.

Updated to reflect current Township programs and abilities 5/13/2020.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 5/2/2019.

- Removed programs that no longer exist
- Added in training Township staff, Public Works and Golf Course Employees

Urbanized Area	Business	Address	Phone
Iron Run	Ridge Run Tavern	4620 Ridge Rd, Elizabethtown, PA, 17022	(717) 944-6445
Iron Run	Noah F Boyle Cabinets	3043 Steinruck Rd, Elizabethtown, PA 17022	(717) 944-1007
Vine St	Love's Travel Stop	3555 Vine St, Middletown, PA 17057	(717) 948-1840
Vine St	Bureau of Topographic and Geologic Surveys	3240 Schoolhouse Rd, Middletown, PA 17057	(717) 702-2017
Vine St	Leshner Natural Stone, Quartz and Tile	2400 Swatara Creek Rd, Middletown, PA 17057	(717) 944-4431
283 Corridor	Fountain of Life Ministries	Middletown, PA 17057	(717) 944-4455
283 Corridor	Discover Kids Childcare Center	290 Lauffer Rd, Middletown, PA 17057	(717) 944-1599
283 Corridor	Hidden Pines Farm, LLC	510 Lauffer Rd, Middletown, PA 17057	(717) 648-6036
283 Corridor	Heiser Automotive, Inc	515 Iron Mine Rd, Middletown, PA 17057	(717) 388-1576
283 Corridor	Mulhollemes Taxidermy	149 Colebrook Rd, Middletown, PA 17057	(717) 979-5119
283 Corridor	Ads Machine Shop	189 Iron Mine Rd, Middletown, PA 17057	(717) 944-9781
283 Corridor	Doc's Family Fun Center	1733 E Harrisburg Pike, Middletown, PA 17057	(717) 944-7866
283 Corridor	Stoney Lawn Farms	1597 Colebrook Rd, Middletown, PA 17057	(717) 616-8798

283 Corridor	Zach Engineering (Auto Repair Shop)	1105 Colebrook Rd, Middletown, PA 17057	(717) 544-0147
283 Corridor	Mike Miata Parts	2101 E Harrisburg Pike, Middletown, PA 17057	(717) 940-3305
283 Corridor	Formula 101	2203 E Harrisburg Pike, Middletown, PA 17057	(888) 367-6852
283 Corridor	Riverhouse Bar and Grill	2495 E Harrisburg Pike, Middletown, PA 17057	(717) 930-8700
283 Corridor	Longs Welding	90 S Geyers Church Rd, Middletown, PA 17057	(717) 944-5150
283 Corridor	Hemlock Bait Shop	2700 E Harrisburg Pike, Middletown, PA 17057	
283 Corridor	Vermeer Sales and Services	2888 E Harrisburg Pike, Middletown, PA 17057	717) 930-8780
283 Corridor	TLC Quilting	2900 E Harrisburg Pike, Middletown, PA 17057	(717) 979-4374
283 Corridor	Swatara Hill Church-Brethren	Middletown, PA 17057	(717) 944-3331
283 Corridor	Rocky Ridge Farm	2997 E Harrisburg Pike, Middletown, PA 17057	(717) 944-2362
283 Corridor	ER Lighty Co.	3069 E Harrisburg Pike, Middletown, PA 17057	(717) 944-0132
283 Corridor	Frank's Foreign Cars	2777 E Harrisburg Pike, Middletown, PA 17057	(717) 944-2757
283 Corridor	Top Star	2826 E Harrisburg Pike, Middletown, PA 17057	(717) 944-6350
283 Corridor	Londonderry Fire Co.	2655 Foxianna Rd, Middletown, PA 17057	(717) 944-2175

283 Corridor	Middletown Auto X-Change	2857 E Harrisburg Pike, Middletown, PA 17057	(717) 944- 2886
283 Corridor	Evangelical Center for Revival	3193 E Harrisburg Pike, Middletown, PA 17057	(717) 314- 2864
283 Corridor	Staley's Repair Shop	90 S Geyers Church Rd, Middletown, PA 17057	(717) 944- 7377
283 Corridor	JTM Alignment	1754 Felker Rd, Middletown, PA 17057	(717) 944- 5463
283 Corridor	Londonderry Township Building	783 S Geyers Church Rd, Middletown, PA 17057	(717) 944- 1803
Conewago Creek	Hobby House Retreat	845 Locust Grove Rd, Middletown, PA 17057	(717) 944- 1125
Conewago Creek	Armstrong Hardwood Products	400 1 st St, Middletown, PA 17057	(717) 944- 6480
Conewago Creek	Tool Shed	4294 E Harrisburg Pike, Middletown, PA 17057	(717) 944- 0318
Conewago Creek	Truck Mounts Unlimited	4190 E Harrisburg Pike, Middletown, PA 17057	(717) 939- 8320
Conewago Creek	Geyers Garage	4801 E Harrisburg Pike, Middletown, PA 17057	(717) 944- 3973
Conewago Creek	Church of Christ	4806 E Harrisburg Pike, Elizabethtown, PA 17022	(717) 367- 8211
Conewago Creek	E & S Tag and Notary	89 Florence Drive, Elizabethtown, PA 17022	(717) 367- 1727
Conewago Creek	Cedar Manor	94 Florence Drive, Elizabethtown, PA 17022	(717) 367- 1122
Conewago Creek	Debs Homemade Pet Treats	270 Michael St, Elizabethtown, PA 17022	(717) 468- 8942

Conewago Creek	Xtreem Bike Works	2820 N Market St, Elizabethtown, PA 17022	(717) 429-6070
Conewago Creek	Expertise Auto Glass Repair	2820 N Market St, Elizabethtown, PA 17022	(717)-367-0174
Conewago Creek	Dunn's Antique and Collectables	2798-B N Market St, Elizabethtown, PA 17022	(610) 413-4608
Conewago Creek	KC's Collision Repair	2750 N Market St, Elizabethtown, PA 17022	(717) 361-7282
Conewago Creek	Ed's Landscaping Inc.	2623 N Market St, Elizabethtown, PA 17022	(717) 367-1006
Susquehanna River	Victory Fellowship Church	Middletown, PA 17057	
Susquehanna River	Red Hill Market	3949 River Rd, Middletown, PA 17057	
Susquehanna River	PA Large Storage	2912 River Rd, Middletown, PA 17057	(717) 944-4709
Susquehanna River	Tri-County Boat Club	2229 River Rd, Middletown, PA 17057	(717) 944-1411
Susquehanna River	Earl & Dave's Scrap Co.	1 Hollendale St, Middletown, PA 17057	(717) 944-4823
Susquehanna River	Royalton Recycling	3 Hollendale St, Middletown, PA 17057	(717) 944-4823

Park	Address	People
Sunset Park	2401 Sunset Dr., Middletown,	Families, Pavilion Renters, Trail

	PA 17057	Hikers
--	----------	--------

Golf Course	Address	Phone	People
Sunset Golf Course	2601 Sunset Dr., Middletown, PA 17057	(717) 944-5415	Apprx 40,000 visitors/year

School	Address	Phone
Londonderry Elementary School	260 Schoolhouse Rd, Middletown, PA 17057	(717) 944-9462
Lower Dauphin School District	291 E Main St, Hummelstown, PA 17036	(717) 566-5300

Trailer Park	Owner	Address	Phone
Pine Manor & Cedar Manor	Dorothy Swartz, GSP Management Co.	94 Florence Dr., Elizabethtown, PA 17022	(717) 367-1122
Crestview	Jamie Werich	Crestview Village, Middletown, PA 17057	(717) 943-0056
Stauffer Rentals	Tim Stauffer	3652 E. Harrisburg Pike, Middletown, PA 17057	(717) 821-2922
Hi-Land	Tom Edwards	Middletown, PA 17057	(717) 644-2174

Appendix B MCM 1 (Figure 2)
Website

Our Stormwater Program Pages

- Resources For Homeowners
- Resources For Farmers
- Resources For Students
- Chesapeake Bay Pollutant Reduction Plan
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

Stormwater Management & MS4

What is Stormwater Runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater runoff from naturally soaking into the ground.

What is Stormwater?

Stormwater Basics Education Series

Why is Stormwater Runoff a Problem?

Stormwater can pick up debris, chemicals, dirt and other pollutants and flow into a storm sewer system or directly into a lake, stream, river, wetland, or coastal water, untreated.

What is MS4?

A Municipal Separate Storm Sewer System (MS4) is a conveyance or system of conveyances that is owned by a municipality, designed or used, to collect or convey stormwater.

What is an MS4?

Stormwater Basics Education Series

To learn more about Stormwater, follow the links below for external resources:

- [How to Be Stormwater Smart by DEP](#)
- [The Homeowner's Guide to Storm Water by Penn State College of Agricultural Sciences](#)
- [Learn about NPDES \(National Pollutant Discharge Elimination System\) permits and the water MS4 Program](#)
- [Activity booklet for children to learn about stormwater](#)
- [Roadside Guide for Clean Water](#)

To learn more about Londonderry Township's Stormwater Management Program explore the left hand navigation bar.

Contact Us

783 S. Geysers Church Rd.
Middletown, PA 17057
Ph: 717.844.1803
Fax: 717.844.1928

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

Londonderry Township Chesapeake Bay Pollutant Reduction Plan

Conewago Creek Restoration Project

A watershed based approach to fulfill MS4 requirements, reduce local flooding, and improve local water quality.

Londonderry MS4 | June 24, 2021

A Note to the Reader: | A Pollution Reduction Plan | The Project | The Conewago Creek Watershed | Project Site | Project Ov

LONDONDERRY TOWNSHIP
 783 South Ceyers Church Road - Middletown, PA 17057 (717) 944-1803 FAX (717) 944-1926
 Copyright 2013 - 2021 Londonderry Township

Londonderry Township created a GIS Story map to communicate the PRP goals and project with the residents. To view the extensive story map visit: <https://www.londonderry.pa.gov/stormwater-chesapeake-pollutant.php#gsc.tab=0>

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

Public Education

Effects of Stormwater Runoff

- Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.
- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.



Be the Solution to Runoff Pollution!

As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, wetlands, and coastal waters. Remember to share the habits with your neighbors!

You can help by taking steps around the home to increase the amount of water that soaks into the ground. This reduces the amount of water flowing into the street. Here's how:

- Wash your car on the lawn (not the driveway), or take your car to a commercial car wash
- Plant lots of trees, shrubs, and ground cover
- Use a rain barrel to catch and store water for gardens
- Redirect down spouts from paved areas to vegetated areas
- Install gravel trenches along driveways and patios
- Use porous materials (i.e. wooden planks and bricks) for walkways and patios
- Grade driveway and walkways to direct water flow toward vegetated areas



Download Londonderry Township's Plan for Public Education and Outreach
 Updated to reflect current Township programs and abilities 1/8/2021

Our Stormwater Program Pages

- Resources For Homeowners
- Resources For Farmers
- Resources For Students
- Chesapeake Bay Pollutant Reduction Plan
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (-16mb)

Public Involvement

Why Is Public Participation and Involvement Necessary?

The EPA believes that the public can provide valuable input and assistance to a regulated small MS4's municipal stormwater management program and, therefore, suggests that the public be given opportunities to play an active role in both the development and implementation of the program. An active and involved community is crucial to the success of a stormwater management program because it allows for:

- Broader public support since citizens who participate in the development and decision making process are partially responsible for the program and, therefore, may be less likely to raise legal challenges to the program and more likely to take an active role in its implementation;
- Shorter implementation schedules due to fewer obstacles in the form of public and legal challenges and increased resources in the form of citizen volunteers;
- A broader base of expertise and economic benefits since the community can be a valuable, and free, intellectual resource; and
- A conduit to other programs as citizens involved in the stormwater program development process provide important cross-connections and relationships with other community and government programs. This benefit is particularly valuable when trying to implement a stormwater program on a watershed basis, as encouraged by EPA.

Volunteer Opportunities with Greening the Lower Susquehanna!

Download Londonderry Township's Plan for Public Involvement and Participation

Reviewed 1/8/2021. Updated to better align with permit requirements 7/30/2020.

Our Stormwater Program Pages

[Resources For Homeowners](#)

[Resources For Farmers](#)

[Resources For Students](#)

[Chesapeake Bay Pollutant Reduction Plan](#)

[Public Education](#)

[Public Involvement](#)

[Illicit Discharge Detection & Elimination](#)

[Construction](#)

[Post-Construction](#)

[Pollution Prevention & Good Housekeeping](#)

[Stormwater Management Ordinance \(SWMO\)](#)

[Annual Report \(~16mb\)](#)

Illicit Discharge Detection & Elimination

What is an Illicit Discharge?

An illicit discharge is an unlawful act of disposing, dumping, spilling, emitting, or other discharge of any substance other than stormwater into the stormwater drainage system. The stormwater drainage system includes streets, ditches, catch basins, yard inlets, lakes, and streams.

Illicit discharges cause water pollution by sending pollutants right into creeks, streams, ponds, and lakes. Be sure you know what illicit discharges are so you can help prevent water pollution and keep our streams clean!

Prevent water pollution. Call the Township to report an illicit discharge or any type of water pollution in our streams or stormwater inlets. In case of emergencies, call 911.

Examples of Illicit Discharges

- Paint being poured into or near the storm drainage system
- Changing oil or antifreeze over or near a storm structure
- Washing vehicles where the runoff could drain into the storm drainage system
- Washing dumpster pads and allowing the runoff to drain into the storm drainage system

What Information Should Be Given When Reporting a Suspected Illicit Discharge?

- **What is your name and best contact information?** This information is kept confidential and is only used if the Township requires additional information.
- **What time did you see the discharge?** It is important that illicit discharges are reported immediately so the person(s) responsible can be found and the discharge can be cleaned up and corrected as soon as possible. We want to respond as quickly as possible to prevent pollution to our environment.
- **Where did you see the discharge?** We'll need an address, intersection, business name, or landmark to help us quickly find the illicit discharge.
- **What do you think the discharge is?** Was it a paint spill, oil spill, sewer leak, or some another type of illicit discharge?

Report A Spill

Emergency Contact List for Spill Response

MS4 Dept. Spill Reporting (Business hours: 8:30-5, M-F)	717.944.1803	Monique Dylman
South-Central Emergency Number (24/7)	717.705.4700	

	Phone number	Name of Contact
Londonderry Township		
MS4 Dept. Spill Reporting after business hours	717.461.0027	Monique Dylman
Township Manager	717.580.2089	Steve Letavic
Public Works Director	717.443.5426	Andy Brandt
Sunset Golf Superintendent	717.943.4547	Sam Rostoff

Pennsylvania DEP

South-Central Regional Office	717.705.4700	Lynn Langer
South-Central Emergency Number (24/7)	717.705.4700	
EPA National Response Center	1.800.424.8602	US Coast Guard

Londonderry Township Volunteer Fire Co.

In an EMERGENCY...	DIAL 911	
Fire Company Chief	717.571.0426	Bart Shellhammer
Fire Company Assistant Chief	717.943.0706	Matt Naples

Consultants

Sewer Enforcement Officer, Hoover Engineering Services	717.443.2878	Timothy Wargo
HRG Engineering	717.564.1121	Andrew Kenworthy

Contact Codes (determine the kind of spill, then contact the appropriate person highlighted in the corresponding color)

Common Spill/Illicit Discharge
Rare, large quantity spill unable to be handled locally
EMERGENCY – Immediate danger to health, property, and environment

[Download Londonderry Township's Plan for Illicit Discharge Detection and](#)

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- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)


From the MS4 Department

Restaurant's Guide to Stormwater Pollution & Prevention

Posted Monday, August 17, 2020

For more information log on to:

<https://www.londonderry.org/stormwater-illicit-discharge-detection-elimination.php#gsc.tab=0>

 Restaurant Outreach .pdf

Construction

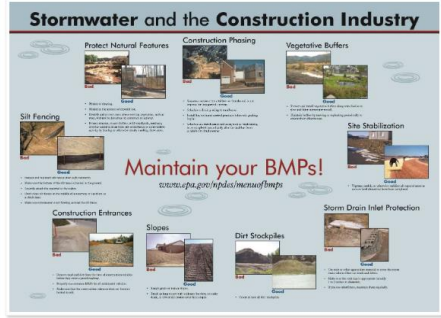
Uncontrolled stormwater runoff from construction sites can significantly impact our streams. Sediment in waterbodies from construction sites can reduce the amount of sunlight reaching aquatic plants, clog fish gills, smother aquatic habitat and spawning areas, and impede navigation.

In partnership with the Dauphin County Conservation District, and in association with our MS4 permit, Londonderry Township has a program to reduce pollutants in stormwater runoff to the MS4 for construction sites disturbing one or more acres.

We have developed measures to comply with our permit:

- An ordinance,
- Requirements to implement erosion and sediment control best management practices (BMPs),
- Requirements to control other waste at the construction site,
- Procedures for reviewing construction site plans,
- Procedures to receive and consider information submitted by the public, and
- Procedures for inspections and enforcement of stormwater requirements at construction sites.

Most types of construction require local permits, and construction sites disturbing one or more acres of land may require additional permits.



[Download Londonderry Township's Plan for Construction Site Runoff Control](#)

Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

Post Construction

As areas are developed, the amount of paved surfaces increase leading to an increase in stormwater volume and pollutants, which can harm our streams.

The best way to mitigate stormwater impacts from new development is to use practices that treat, store, and infiltrate runoff onsite before it can affect water bodies downstream. Innovative site designs that reduce paved surfaces, or imperviousness, and other green infrastructure practices are excellent ways to reduce flows and improve water quality.

In partnership with the Dauphin County Conservation District, and in association with our MS4 permit, Londonderry Township has a program to address post-construction stormwater runoff from new development and redevelopments that disturb one or more acres.

- The program includes:
- strategies to implement a combination of structural and non-structural BMPs,
 - an ordinance to address post-construction runoff, and
 - a program to ensure adequate long-term operation and maintenance of BMPs.

[Download Londonderry Township's Plan for Post-Construction Stormwater Management in New and Redevelopment](#)

Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

Rain Garden



Constructed Wetland



Detention Basin with Retention Area



Infiltration Trench



Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

Pollution Prevention & Good Housekeeping

Preventing pollutants from entering a waterway is less expensive than restoring a waterway after it has been polluted. Therefore, Silver Spring Township first focuses on preventing pollution before it happens. BMPs under each of the minimum measures, but especially under the pollution prevention category, focus on preventing pollutants from contacting stormwater.



Municipal activities such as winter road maintenance, minor road repairs, and other infrastructure work, automobile fleet maintenance, snowplows and park maintenance, and building maintenance can release pollutants into MS4s that ultimately discharge to nearby waterbodies. Municipal facilities can also be sources of stormwater discharges. If BMPs are not in place to contain spills, manage trash, and handle non-stormwater discharges.

Cleaning storm drains can prevent pollutants from entering nearby waterways. Londonderry Township has staff trained to prevent and reduce stormwater pollution from activities like maintaining MS4 infrastructure and performing daily municipal activities.

This primarily includes:

- Developing inspection and maintenance procedures and schedules for stormwater BMPs
- Implementing BMPs to treat pollutants from transportation infrastructure, maintenance areas, storage yards, sand and salt storage areas
- Establishing procedures for properly disposing of pollutants removed from the MS4
- Identifying ways to incorporate water quality controls into new and existing flood management projects
- Developing a training program for all municipal staff involved in activities that could discharge pollutants to the MS4
- Developing standard operating procedures that incorporate stormwater BMPs for common municipal activities


Download Londonderry Township's Plan for Pollution Prevention and Good Housekeeping for Municipal Operations

- ### Minimum Control Measures
- CBPRP
 - Public Education
 - Public Involvement
 - Illicit Discharge Detection & Elimination
 - Construction
 - Post-Construction
 - Pollution Prevention & Good Housekeeping
 - Stormwater Management Ordinance (SWMO)
 - Annual Report (~16mb)

Curious what you can do as a homeowner to prevent and manage stormwater?

Check Out These Resources For Homeowners

- [The Homeowner's Guide to Stormwater](#)
- [Or, are you wondering "How Can I Be a Good Stormwater Neighbor?"](#)
- [Watch this webinar to learn how Using Green Infrastructure Reduces Stormwater Runoff](#)
- [Click here to learn what you can do to reduce stream bank erosion on your property.](#)



Are you interested in planting a riparian buffer along your stream, or have over 1/2 an acre of lawn you would like to convert to an upland planting or meadow?

If so, reach out to mdvkman@londonderryva.org to learn about programs which may subsidize the cost of plants and installation.

To learn about Riparian Buffers, and their benefits, review the presentation below!

And be sure to make it to section 10, for a spotlight on Londonderry Township's buffers!

- ### Our Stormwater Program Pages
- Resources For Homeowners
 - Resources For Farmers
 - Resources For Students
 - Chesapeake Bay Pollutant Reduction Plan
 - Public Education
 - Public Involvement
 - Illicit Discharge Detection & Elimination
 - Construction
 - Post-Construction
 - Pollution Prevention & Good Housekeeping
 - Stormwater Management Ordinance (SWMO)
 - Annual Report (~16mb)

Imagine a Day Without Water: 2019

1 Imagine a Day Without (Clean) Water

The "Imagine a Day Without Water" initiative—a yearly endeavor of the One Water campaign—starts with a simple premise: water is essential to everything we do. From making morning coffee to filling up the gas tank of a car, many of our daily tasks that involve water occur out of our line of sight.

19 gallons of water are required to grow just one apple.



Imagine a Day Without Water
October 23, 2019 | #NoWater

2 Drinking water...streams...and groundwater



Resources For Farmers

Chiques-Conoy-Conewago Regional Partnership

We are a group of local agriculture and conservation partners working together to provide resources for farmers to meet their production and conservation goals. Facilitated by the Penn State Ag & Environment Center, the partnership provides tools for farmers to improve herd health, soil health, overall farm health and local water quality by funding conservation practices to improve farm operations.



Benefits of the Program:

- Soil Health:** No-till and cover crop consultation and custom operator assistance, soil testing, manure testing, nutrient management planning and execution, and erosion controls for wet and/or sloping fields to reduce crop inputs and improve yields
- Herd Health:** Pasture management practices, barnyard improvements, manure management practices, feed management, and drinking water protection, reducing vet bills and improving animal welfare
- Overall Farm Health:** Protecting natural resources including streams, ponds, wetlands, and sinkholes across the landscape for beauty, wildlife, and ensuring a lasting family legacy of conservation

Funding for conservation practices is available through a National Fish and Wildlife Foundation grant for farmers willing to install forest riparian buffers, earned at \$4,000/acre of buffer, capped at \$20,000. Farmers without streams can earn up to \$10,000. Funding is provided on a first come, first serve basis until funds run out!

Funding earned can be used for planning, design, or implementation of Ag conservation practices, including:

- Manure Storages
- Grazing Management
- Grassed Waterways
- Barnyard Improvements
- Cover Crops
- 4Rs Nutrient Management
- No Till Transition
- Stream/Wetland Restoration

If needed, our team is happy to work with you to find additional funding sources and can provide free assessment tools to make your project happen.

Now is the time to take advantage of these opportunities!

For more information, contact Sarah Xenophon, (570) 294-5229, slx5000@psu.edu

Our Stormwater Program Pages

[Resources For Homeowners](#)

[Resources For Farmers](#)

[Resources For Students](#)

[Chesapeake Bay Pollutant Reduction Plan](#)

[Public Education](#)

[Public Involvement](#)

[Illicit Discharge Detection & Elimination](#)

[Construction](#)

[Post-Construction](#)

[Pollution Prevention & Good Housekeeping](#)

[Stormwater Management Ordinance \(SWMO\)](#)

[Annual Report \(~16mb\)](#)

Resources For Students

We are never too young to learn about the effect of rain!

Navigate through these family friendly resources and activities!

For the youngest water enthusiasts:



[What is a watershed?](#)

[Into the Outdoors \(ITO\) Science-based videos and lessons](#)

for teachers and nature centers! Video lessons are broken down into Elementary, Middle School, and High School units.

[When it Rains, it Drains Brochure](#)

[Webinar: Water Quality Monitoring, a family friendly outdoor citizen science tool](#)

[Webinar: Engaging Youth in Watershed Efforts](#)

[Glossary of terms related to water!](#)

Our Stormwater Program Pages

[Resources For Homeowners](#)

[Resources For Farmers](#)

[Resources For Students](#)

[Chesapeake Bay Pollutant Reduction Plan](#)

[Public Education](#)

[Public Involvement](#)

[Illicit Discharge Detection & Elimination](#)

[Construction](#)

[Post-Construction](#)

[Pollution Prevention & Good Housekeeping](#)

[Stormwater Management Ordinance \(SWMO\)](#)

[Annual Report \(~16mb\)](#)

Appendix B MCM 1 (Figure 3)
Outreach materials

MCM #1: BMP #4 & 5 - Stormwater Education program for local resident



EDUCATIONAL OUTREACH

Date	Name of material
Fall 2022	Fall Newsletter
Spring 2023	Spring Newsletter
Winter 2022	DCCD Poster Ad
Winter 2022	DCCD Developers Memo
Winter 2022	DCCD School MS4 Activity
Year-round	Facebook Posts

Newsletters

<https://www.londonderrypa.org/newsletters.php#gsc.tab=0>

Fall 2022

Stormwater & Environmental Department

**LONDONDERRY TOWNSHIP
ILLICIT DISCHARGE AWARENESS**

An illicit discharge is any discharge not composed entirely of stormwater entering a Municipal Separate Storm Sewer System aka an "MS4" aka a storm drain. An illicit discharge also includes any piping or drainage leading directly into a storm drain that was not initially placed during construction. MS4s are only intended to carry stormwater directly to streams and rivers. Any illicit discharges flowing into an MS4 can pollute the streams in the area, harming the wildlife and way of life of the people who use these streams.

How You Can Help?
The easiest way you can help is by disposing of liquid wastes properly and not allowing them to flow into storm drains. You can also check your storm drains near your home to make sure no pipes are flowing from your home which you were not previously aware of.

Examples of Illicit Discharges

- Sanitary Wastewater
- Septic Tank Effluent
- Chlorinated Pool Discharge
- Improper Oil/Radiator Flushing Disposal
- Laundry Wastewaters
- Spills from roadway accidents
- Improper disposal of household toxins

Exemptions

- Discharges from fire-fighting activities
- Fire hydrant flushing
- Potable water, including water line flushing
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids
- Irrigation drainage
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling
- F pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred
- Routine external building washdown that does not use detergents
- Uncontaminated ground water or spring water

Stormwater & Environmental Department

Emergency Contact List for Spill Response

MS4 Dept. Spill Reporting, contact Monique Dykman if you notice possible illicit discharge 717-461-0027 Monday - Friday

LONDONDERRY TOWNSHIP

- Township Manager, Steve Letavich 717.205.7254
- Public Works Director, Andy Brandt 717.443.5425
- Sunset Golf Manager, Sam Risteff 717.943.4547

PENNSYLVANIA DEP

- South-Central Regional Office, Lynn Langer 717.705.4700
- South-Central Emergency Number (24/7) 1-800-541-2050
- EPA National Response Center 1.800.424.8802 US Coast Guard

LONDONDERRY TOWNSHIP VOLUNTEER FIRE CO.

- In an EMERGENCY... DIAL 911
- Fire Company Chief, Bart Shellenhamer 717.571.0428
- Fire Company Assistant Chief, Matt Naples 717.943.0706

CONSULTANTS

- Sewer Enforcement Officer, Timothy Wargo Hoover Engineering Services 717.443.2878
- HNC Engineering, Andrew Kenworthy 717.564.1121

Contact Codes (determine the kind of spill, then contact the appropriate person highlighted in the corresponding color)

Common Spill/Illicit Discharge

- Rare, large quantity spill unable to be handled locally

EMERGENCY - Immediate danger to health, property, and environment

Stormwater & Environmental Department

Conewago Creek Restoration Completes Phase 1

Floodplain restoration of Brills Run downstream of the North Hertzler bridge - or "Phase 1" of the Conewago Creek Floodplain Restoration was completed this past July. The project will fulfill the Municipal Separate Storm System's mandatory Pollutant Reduction Plan for the current permit year. This restoration is designed to mitigate downstream flooding, remove sediment and nutrients from our waterway, and create wildlife habitat.

This project is becoming a significant project, locally - including being awarded Dauphin County Board of Commissioners and Planning Commission's Dauphin County Premier Project award, under the "Growing Within our Environment" category this past Spring. The project has raised over \$3,499,000 dollars primarily in the form of grants - funding sources include National Fish and Wild Life Foundation, Dauphin and Lancaster Countywide Action Plan, and Lancaster County American Rescue Plan dollars.

All 3 Phases of the Conewago Creek Floodplain Restoration are fully funded, and expected to be complete by the end of 2023.

Visit Londonderrypa.org > Stormwater Management & MS4 > Chesapeake Bay Pollutant Reduction Plan to learn more about the project. Or take a walk along the Conewago Recreation Trail to see the construction.

If you have a creek on your property, contact MDykman@londonderrypa.org to assess grant funded stream restoration or tree planting opportunities!

**NEED A BUILDING AND/OR ZONING PERMIT?
JUST FOLLOW THE ONLINE APPLICATION & PAYMENT PROCESS**

Building and zoning permit applications and payments are now made online. **Payment can also be made by check or money order payable to Londonderry Township at the township building by placing payment in the drop box located in the lobby. Cash is not accepted.** When picking up a permit, please provide your name, address and phone number along with the type of permit you will be picking up. Pickup times for permits must be arranged with the Codes Officer, or your permit will be mailed, once confirmation of payment is made.

For faster service, payment can be made online through the **BCO@londonderrypa.org** website under the Building and Codes Quicklinks Section 3, "pay permit application fee and/or permit fees online".

Guidelines for Maintaining Streams in Your Community

DEP wants to help Pennsylvania communities complete all necessary stream work in a way that is environmentally responsible, reduces the likelihood of future flooding problems, and complies with regulations. When in doubt, contact PA DEP for assistance before you start stream work projects.



Green Light—Go!

Proceed—These actions do **not** require DEP notification, pre-approval, or additional permits:

- Removing woody debris and manmade debris materials from the stream, banks, and riparian areas by hand or using handheld equipment
- Removing above items using heavy equipment from the bank; equipment should not enter the stream or dig into the streambed
- Removing gravel and debris in and close to bridges and culverts (Note: review permit conditions first)
- Crossing a flooded stream for emergency access to your property, if conditions are safe



Yellow Light—Slow Down!

Call DEP first—Notification, pre-approval, or emergency permits may be required:

- Rebuilding roads and bridges across streams
- Streambank stabilization projects, including riprap
- Removing gravel bars from the stream channel using heavy equipment
- Repairing a bridge or culvert, or removing one in danger of failure



Red Light—Stop!

These actions require permits from DEP, and possibly from the U.S. Army Corps of Engineers or other agencies:

- Redirecting the flow of a stream by reshaping gravel bars, or moving gravel to the streambank
- Moving/relocating a stream
- Dredging or damming streams, or creating dikes
- Building a new bridge or culvert

Remember: When in Doubt, Call DEP!



DEP Regional Offices

Allegheny Region Region Office 225 Centre Blvd, Suite 400 Pittsburgh, PA 15201 Phone: (412) 262-2241 Fax: (412) 262-2242	Northwestern (Allentown) Region Region Office 200 N. 4th St., Suite 200 Allentown, PA 18101 Phone: (610) 262-2241 Fax: (610) 262-2242	Southwestern (Harrisburg) Region Region Office 1700 N. 2nd St., Suite 200 Harrisburg, PA 17102 Phone: (717) 633-2241 Fax: (717) 633-2242
Delaware Region Region Office 100 Delaware St. Harrisburg, PA 17102 Phone: (717) 633-2241 Fax: (717) 633-2242	Eastern (Pittsburgh) Region Region Office 100 Delaware St. Harrisburg, PA 17102 Phone: (717) 633-2241 Fax: (717) 633-2242	Southwestern (Harrisburg) Region Region Office 100 Delaware St. Harrisburg, PA 17102 Phone: (717) 633-2241 Fax: (717) 633-2242

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Visit the DEP website at <http://www.dep.pa.gov> for more information about relevant permits and programs.

Recycling



RECYCLE, RECYCLE, RECYCLE Keep it Clean AND Keep it Green!

Londonderry Township Recycling Center

FROM THE PUBLIC WORKS DEPARTMENT

The yard waste/recycling facility is located behind the salt storage shed on Sunset Drive. Hours of operation for the yard waste/recycling yard are 7 days a week from dawn to dusk.

THE FOLLOWING ITEMS WILL BE ACCEPTED:

- Grass
- Yard waste
- Leaves

THE FOLLOWING ITEMS WILL NOT BE ACCEPTED:

- Paper
- Plastic
- Lumber
- Glass
- Metal
- Limbs
- Ashes
- Trash

Tree limbs can be taken to Zeagers Mulch at 4000 E. Harrisburg Pike in Middletown. For more information on what items Zeagers Mulch will accept, give them a call at 717-944-8481.

Watch the Township newsletter, website and Facebook for any changes.

NOTICE: THE REASON GLASS CAN BE DISPOSED OF THROUGH REGULAR TRASH IS BECAUSE IT IS BIODEGRADABLE.

Dauphin County Recycling Center

1625 S. Cameron Street • Harrisburg • 717-982-6772
Hours: Monday-Friday 8:30-4:30 • Saturday 9:00-2:00

Drop off location for unwanted or obsolete electronics, appliances and much more including:

- Car and boat batteries • Lithium, rechargeable and regular batteries
- Thermostats containing mercury • Empty propane canisters • Fire extinguishers • Light bulbs (including compact fluorescent bulbs) • Long fluorescent tubes – contact Dauphin Electric • Refrigerators/ freezers/air conditioners (\$20 fee for freon removal) • Dehumidifiers
- TVs • Microwaves • Computers (must be intact) • Hardcover books - if the local library won't take them, cut covers off first

Large items — if you get it there, they'll unload it! **To dispose of hazardous waste such as oil drums, insecticides, spray cans, poisons, please call 800-449-7587.**

Conewago Township Recycling Center

3279 Old Hershey Road • Hershey, PA • 717-534-8556

HOUSEHOLD GOODS –

Dauphin County has designated Conewago Township as the local recycling center. No permit is required and there is no charge to residents.

Items that may be brought to the Recycling Center:
Magazines/office paper/junk mail/phone book • Corrugated cardboard and boxboard • Newspapers and inserts • Aluminum and tin cans • Plastic bottles with recycling symbols on them

Glass bottles and jars are no longer accepted - place these in your regular trash.

APPLIANCES, FURNITURE, SCRAP METAL –

Do you need to dispose of items such as appliances, furniture or scrap metal? One option is to contact your trash hauler and inquire what items they will pick up. Another option is to contact local scrap metal yards. Some scrap yards will pay you for metals such as aluminum, copper, brass, etc.

CSR Scrap Metal (717) 233-7927

Dauphin County Recycling Center (717) 982-6772

DEP Waste Management (717) 705-4918

Royalton Recycling (717) 944-4823

Stormwater & Environmental Department

BE AWARE OF DIRTY DIRT!!!

DEP wants to help residents and contractors in Pennsylvania ensure they do not accept or use fill materials that may cause contamination. Fill materials are used to bring sites to desirable grades to enhance the usefulness of the properties. Homeowners and contractors need to be aware and take care to keep fill materials out there that can cause potential environmental and/or health concerns, as well as open up property owners to potential liabilities. Here are a few tips to ensure you are using acceptable fill materials on your property.

Do your homework...

- Before you buy or accept "FREE" dirt, make sure it is clean.
- Know the **source** of the fill, especially if it is offered to you for FREE.
- Know the supplier and hauler. Check for references.
- Ask for documentation from the provider regarding the source:
 - A bill of lading if you purchased it.
 - An official **DEP FP-001** form that identifies where the fill came from and any testing that was done.
- Do not accept any free material without documentation.

Take a look...or smell...

- If the fill has a petroleum/oil-like or garbage odor...**BEWARE!**
- If the fill has materials such as: plastic, ash, demolition debris such as wallboard, shingles, nails, wood or paint chips...**BEWARE!**
- If the fill appears to be "discolored" or stained...**BEWARE!**
- If you don't know the source of the fill...**BEWARE!**

Get some advice...

- The DEP wants residents and contractors in Pennsylvania to make sure they do not accept or use fill materials that may contain or cause contamination.
- Check with your regional office if you have questions, consult with your local Bureau of Waste Management or DEP office.
- If you don't know the source of the fill...**BEWARE!**

DEP's Management of Fill Policy and Frequently Asked Questions:

- <https://www.dep.pa.gov/Business/and/Waste/Solid/Waste/Basic/Pages/TechnicalGuidance.aspx>

Always BE SURE where the dirt is coming from!

6

Stormwater & Environmental Department

LONDONDERRY TOWNSHIP ILLICIT DISCHARGE AWARENESS

An *illicit discharge* is any discharge not composed entirely of stormwater, entering a Municipal Separate Storm Sewer System aka an "MS4" aka a storm drain. An *illicit discharge* also includes any piping or drainage leading directly into a storm drain that was not initially placed during construction. MS4s are only intended to carry stormwater directly to streams and rivers. Any *illicit discharges* flowing into an MS4 can pollute the streams in the area, harming the wildlife and way of life of the people who use these streams.

How You Can Help?

The easiest way you can help is by disposing of liquid wastes properly and not allowing them to flow into storm drains. You can also check your storm drains near your home to make sure no pipes are flowing from your home which you were not previously aware of.

Examples of Illicit Discharges

- Sanitary Wastewater
- Septic Tank Effluent
- Chlorinated Pool Discharge
- Improper Oil/Radiator Flushing Disposal
- Laundry Wastewaters
- Spills from roadway accidents
- Improper disposal of household toxins

Examples

- Discharges from fire-fighting activities
- Fire hydrant flushing
- Potable water, including water line flushing
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids
- Irrigation drainage
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling
- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred
- Routine external building washdown that does not use detergents
- Uncontaminated ground water or spring water

Emergency Contact List for Spill Response

MS4 Dept. Spill Reporting, contact Monique Dykman if you notice possible discharge 717-461-0027 Monday - Friday

LONDONDERRY TOWNSHIP

- Township Manager, Steve Letavic 717.205.7254
- Public Works Director, Andy Brandt 717.443.5426
- Sunset Golf Manager, Sam Risteff 717.943.4547

PENNSYLVANIA DEP

- South-Central Regional Office, Lynn Langer 717.705.4700
- South-Central Emergency Number (24/7) 1-800-541-2050
- EPA National Response Center 1.800.424.8802 US Coast Guard

LONDONDERRY TOWNSHIP VOLUNTEER FIRE CO.

- In an EMERGENCY... DIAL 911
- Fire Company Chief, Bart Shellenhamer 71.944.2175 X 1
- Fire Company Assistant Chief, Matt Naples 717.943.0706

CONSULTANTS

- Sewer Enforcement Officer, Timothy Wargo Hoover Engineering Services 717.443.2876
- HRG Engineering, Andrew Kenworthy 717.564.1121

Contact Codes (determine the kind of spill, then contact the appropriate person highlighted in the corresponding color)

Common Spill/Illicit Discharge

Rare, large quantity spill unable to be handled locally

EMERGENCY - Immediate danger to health, property, and environment

7

Stormwater & Environmental Department

Certified Pumpers/Haulers

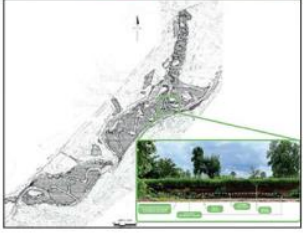
<p>Associated Products Services, Inc. 2 East Road Mechanicsburg, PA 17050 Phone: 717-766-5397</p>	<p>Gerberich-Hoffman Septic Service 585 N. Mill Street Jonesstown, PA 17038 Phone: 717-865-2015 / 717-867-5024</p>
<p>Baker's Septic Service, LLC 1538 Ridge Road Elizabethtown, PA 17022 Phone: 717-367-7271</p>	<p>Kauffman Septic Services LLC 236 Governor Stable Road Bainbridge, PA 17502 Phone: 717-944-4308 / 717-367-8228</p>
<p>Bauman's Septic Service 39 Homestead Road Grantville, PA 17028 Phone: 717-469-2463</p>	<p>John Kline Septic Services, LLC 3869 Old Harrisburg Pike Mount Joy, PA 17552 Phone: 717-898-2333</p>
<p>Central Penn Septic Service* 725 Edgewood Lane Mechanicsburg, PA 17055 Phone: 717-766-1280</p>	<p>Kline's Services LLC 5 Holland Street Salunga, PA 17538 Phone: 717-459-8029</p>
<p>Dillsburg Excavating & Septic, Inc. 516 Range End Road Dillsburg, PA 17019 Phone: 717-432-9704</p>	<p>Walter M. Strohl LLC 670 W. Girl Scout Road Stevens, PA 17578 Phone: 717-733-2339</p>
<p>Thomas H. Erb & Sons, Inc. 268 Sego Sago Road Litz, PA 17543 Phone: 717-626-5591</p>	<p>Walters Environmental Services, Inc.* P.O. Box 400 Grantville, PA 17028 Phone: 717-469-0588</p>
<p>RE Fink & Sons, LLC* 1920 Old Trail Road Eters, PA 17319 Phone: 717-938-3581</p>	<p>*PUMPER HAULERS THAT WILL PUMP OUT ISLAND PROPERTIES.</p>

8

Stormwater & Environmental Department

Conewago Creek Restoration

If you have walked on the Conewago Recreation trail recently, you probably notice the creek is "under construction". Londonderry Township has partnered with neighboring communities to fulfill the Municipal Separate Storm Sewer System's Pollutant Reduction Plan. This project is designed to mitigate downstream flooding, remove sediment and nutrients from our waterway, and create wildlife habitat. The major construction of all planned phases is now complete, and we are looking forward to enhancing the project with native plants in Spring 2023



Come out to tour the project on April 2nd at 11am at the Conewago Darter Field Day!

Visit LondonderryPA.org > Stormwater Management & MS4 > Chesapeake Bay Pollutant Reduction Plan to learn more about the project. Or take a walk along the Conewago Recreation Trail to see the construction.

If you have a creek on your property, contact MDykman@londonderryPA.org to assess grant funded stream restoration or tree planting opportunities.


"WEED BE GONE" Recipe

- 1 gallon white vinegar
- 2 cups Epsom salt
- ¼ cup Dawn dish soap

Spray weeds in morning after dew dries. Weeds will be gone by evening.

Grass on the Roads

When mowing your lawn this Summer, make sure you keep all grass clippings and garden trimmings off the road. When left on our roads, they can create dangerous driving conditions, especially for motorcycles, as well as add to stormwater runoff. This debris, often times containing fertilizer, is not meant to be in our waterways and disrupts the natural ecosystem. Please make sure to either blow your clippings or sweep them from the road. **DO NOT DUMP DOWN THE STORM SEWER.** It is also a good idea to leave the clippings on your lawn, they serve as a great natural fertilizer!



Londonderry Township and Local Conservation Partners present the 1st ...

Conewago Darter 5k Run/Walk & Field Day for Clean Water Elizabethtown, Pennsylvania

Sunday, April 2, 2023 10:00 A.M

WHO: Runners & Walkers of all ages and abilities are welcome to participate in either the 5k event or 1-mile distance event. Bring your family, friends and co-workers out to support clean water in the Conewago Creek Watershed. The course is stroller and wheelchair accessible.


WHAT: 5k Race, 1-mile Fun Run, and Community Field Day to raise money and awareness for Clean Water Projects in the Conewago Creek Watershed.

WHERE: 5k Race: Park at 2771 N Market Street, Elizabethtown, PA 17007 near the Finish line by 9:25, you will then board a bus to transport to the start line at Old Trolley Line park - 472 Beverly Road, Elizabethtown. You will race your way back to the Finish Line at the Route 280 trailhead, where your cars are parked a short distance away.

1-mile Fun Run/Walk: Park and register at 2771 N Market Street, Elizabethtown, PA 17002, and follow signs to the trailhead. The fun run is an "out and back" race. Fun Run/Walk is not timed and does not include awards.

WHEN: April 2nd, 2023
9:00 - 9:50 a.m. - Registration at Old Trolley Line Park
9:50 a.m. - Last Bus Leaves Registration Site for Start Line
10:00 am - 5k Run starts from Old Trolley Line Park
10:45 am - 1 Mile Fun Run/Walk begins at 2385 N Market St
11:00 a.m. - Award presentation at finish line

Optional Online Registration Available at: www.conewago.org
(Nominal service fee applies)
Closes at midnight on Wed. 03/29/23



Mail in Registration

Checks payable to "Londonderry Township MS4" 783 S Geysers Church Road Middletown, PA 17057
Detach and mail, include \$27 early registration fee by March 15th. After March 15th registration fee is \$32. Please do not mail registration form with payment after March 27th, due to mail delivery time. Race day registration will be available.

Name: _____ Event (circle one): 5K RUNNER 1-Mile Fun Run
Address: _____ Sk only: I plan to ride the provided bus to the start line Yes No
Phone: _____ Gender (circle one): Male Female Age on 4/2/23: _____
Email: _____ Race Fee \$27 Donation to Clean Water Projects \$ _____

Waiver: I hereby waive all claims against the race director, race officials and volunteers, any and all sponsors including, but not limited to Conewago Darter, Londonderry and Hosts by: Township, Lancaster County Parks and Recreation and those in their employ, and all their representatives and successors from any injury or liability I might suffer in this event. I assume all risks associated with running in this event including, but not limited to falls, contact with other participants, the effects of the weather including high heat and/or humidity, and the condition of the road at each mile being known and appreciated by me. I grant full permission for organizers to use my name and/or pictures in legitimate accounts and promotions of this event.

Signature X _____ Date: _____ (Print or publish's signature if less than 18 years of age.)

Londonderry Township and Local Conservation Partners present the 1st ...

Conewago Darter Field Day for Clean Water

Sunday, April 2nd, 2023
10:00 A.M. - 1:00 P.M.

5k Run/Walk - 1 Mile Fun Run

10:00AM 5K - 10:45 Fun Run

Conewago Recreation Trail
Elizabethtown, Pennsylvania

Join local Conservation Partners to celebrate the Conewago Creek!
Park at 2771 N Market Street, Elizabethtown, PA 17002 and follow signs to the event.

- Help to plant 50 trees
- Learn about water quality monitoring efforts and results
- Food from The Chubby Unicorn food truck
- Tour an ongoing stream restoration

- Connect with conservation professionals to discuss local water quality issues
- Identify macroinvertebrates & learn how they support fish populations
- Enjoy time outside!



LONDONDERRY TOWNSHIP

Peru State College of Agricultural Sciences
Agriculture & Environment Center

HRG
Herbicide, Pesticide & Genetic Engineering & Related Services
WATERPROOFING • OWNED COMPANY

Land Studies
Master Watershed Steward Program

DAUPHIN COUNTY CONSERVATION DISTRICT

PIHEASANTS forever
QUAIL forever

LANCASTER COUNTY CONSERVATION DISTRICT

Donegal Trout Unlimited

Thank you to our sponsors

SEI
STEPHENSON EQUIPMENT INC.

Peiffer
PLUMBING & HEATING
— Since 1950 —

Lancaster COMMUNITY FOUNDATION

Thank you to our event funders: The Lancaster Clean Water Partners/Lancaster Community Foundation & Keep Pennsylvania Beautiful/Healing the Planet Grant, with support from The GIANT Company.

Stormwater & Environmental Department

Dauphin County's Water Resource Enhancement Program (WREP) Would Cut Municipal Costs, Improve Water Quality

In recent years, Dauphin County's municipalities have been facing an increasing range of stormwater management, water quality, and flooding issues. Costs for addressing these issues are rising due to the increasing complexity of the impacts and environmental regulations associated with stormwater management.

To address this issue, Tri-County Regional Planning Commission (TCRPC) has been working with the county to create a regional Water Resource Enhancement Program (WREP) that would provide a central framework, offer strategic partnerships and coordinate efforts between municipalities, thereby cutting municipal costs by up to 90 percent.

In addition to saving taxpayer dollars, this voluntary program will save considerable time and effort for participating municipalities by enabling them to participate in regionalized services where it makes the most sense to do so.

It's important to note that this program is meant to enhance – not replicate or replace – existing stormwater management programs, and would not create new fees. The overall savings, however, would rely on participation: The more municipalities involved, the more they will save.

The first project to be undertaken under WREP is the Conewago Creek Restoration Project, a watershed-based approach to fulfill MS4 requirements, reduce local flooding and improve local water quality in Londonderry Township. The MS4 benefits for sediment reduction are able to be shared with other municipalities in the watershed (Highspire, Middletown and Steelton boroughs and Lower Swatara and Swatara townships) at a very cost-effective rate thanks to the efforts of Londonderry Township in securing grant funding and Dauphin County's contribution through a recently awarded grant from the PA Department of Environmental Protection.

Participants are able to buy into this project through WREP at savings ranging between 60 and 90 percent, compared to previous projects proposed individually. Beyond the cost savings, all residents will benefit from better flood prevention and improved water quality for the region's streams and groundwater. The Dauphin County Board of Commissioners are supportive of this program due to its many benefits and potential for cost savings, especially as more municipalities sign on.

There will be an extensive outreach effort over the next few months to provide information and answer questions about WREP.

Municipalities wishing to learn more can contact Jerry Duke (jduke@trpc-pa.org) at TCRPC.

Tree Canopies

Although tree canopies are scenic and enjoyable to drive through, they can also cause a hazard to vehicles and the road surface. While low hanging branches keep the road shaded, they also keep the sun from drying the road after it rains, and hinders the melting process of ice and snow in the winter. Emergency vehicles must travel slower to avoid low hanging branches from striking their vehicles. Delivery trucks, garbage trucks, and school buses also have a difficult time passing safely under low hanging limbs. During rain and snow events, these limbs hang even lower than usual making safe passage more difficult.

It is not our intent to remove all trees from hanging over the roadway. But we do have to make it safe for all vehicles and pedestrians to travel the roadways. We will be removing limbs back 3 to 4 feet from the edge of the pavement, and 16 to 20 feet above the road surface. We will also be removing the dead limbs that we can reach before they cause damage to vehicles or pedestrians.

Londonderry Facebook page <https://www.facebook.com/LondonderryTownship/>

Examples:

Londonderry Township
May 15 · 🌐

Become a Riparian Ranger to protect our local water quality! Training on the 31st, right in Londonderry Township!



For more details:
<https://www.allianceforthebay.org/project/riparian-rangers-2/>

Upcoming Training
MAY 31, 2023
5-7 PM, Middletown, PA

REGISTER BY EMAILING
KLK343@PSU.EDU

Penn State Extension · Greening the Lower Susquehanna
May 11 · 🌐

Becoming a Riparian Ranger is a great way to volunteer with lots of flexibility! You will be matched with a tree planting convenient for you. Watch your plantin... See more


No insights to show

Boost a post

2 1 comment

Londonderry Township
April 5 · 🌐

Thank you to all who joined us for the Conewago Darter 5k & Community Field Day. Race results can be found: <https://www.pretzelcitysports.com/.../23-ELIZABETHTOWN...>



See insights and ads

Boost post

11

Like Comment Share

Londonderry Township
March 30 · 🌐

Manada Conservancy presents



Converting the Traditional Landscape into a
Pollinator Paradise
April 13, 7:00 pm

Do you want to convert your landscape into a sustainable pollinator haven that is suitable for birds, wildlife and pollinators, and safe for your family? Join local pollinator gardener Heather Andrews as she walks us through how she did just that, converting a traditional landscape into an award-winning pollinator paradise using native alternatives.

Grace UM Church
433 E. Main St., Hummelstown
(entrance #3 on east side of building)

Details and registration info are at www.manada.org.

Heather Andrews is a published author, photographer, and speaker who works with homeowners and businesses to create sustainable native pollinator habitats. She produces videoblogs on YouTube at Garden Thoughtfully. She has received numerous awards for her garden designs and work. You can often find her in her monarch waystation, Cat-a-pillar Haven.
www.manada.org

Manada Conservancy
HERSHEY

Thanks to our education program sponsor!

See insights and ads

Boost post

Londonderry Township
February 24 · 🌐

If you have ever thought about converting your lawn into meadow, check out this \$5 course through Penn State Extension, and contact Londonderry MS4 Department for even more resources!

WEB.EVENT.COM
A Do-it-yourself Guide: Converting Your Lawn to a Meadow

See insights and ads

Boost post

3 3 shares

What goes on the street...



...ends up in the creek

When it rains, pollutants that accumulate on the surface of the land are washed into storm sewer systems that dump into our streams and lakes. Pollutants can include oil, gasoline, coolant, sediment, phosphates, nitrates, chemicals, bacteria, pesticides, metals, and trash. This polluted runoff, known as stormwater, affects the health and recreational value of our waterways.

What You Can Do

- ⇒ Pick up after your dog
- ⇒ Use fertilizer sparingly
- ⇒ Wash your car on the lawn or at a car wash
- ⇒ Repair oil leaks as soon as possible
- ⇒ Keep yard waste out of the storm sewers
- ⇒ **NEVER DUMP ANYTHING DOWN A STORM DRAIN**

SPONSORED BY: Dauphin County Conservation District and Commissioners Mike Pries, Chad Saylor & George P. Hartwick, III, AND

Capital Region Water, Derry, East Hanover, Londonderry, Lower Paxton, Lower Swatara, Susquehanna, Swatara, and West Hanover Townships

Highspire, Hummelstown, Middletown, Paxtang, and Penbrook Boroughs

SAVE TIME AND MONEY

THROUGH PROPER EROSION AND SEDIMENT POLLUTION CONTROL

As a developer, you are very aware that time is money. Delays in construction affect your bottom line. One area where needless delays can be avoided is erosion and sediment pollution control.

Virtually all development activities involving earth moving require some erosion and sediment pollution control planning and most require permitting. Proper planning and careful implementation of the plan can save needless delays. Further, by following an approved plan, enforcement procedures which may result in fines and associated lengthy delays can be avoided.

Also, consider that as an active developer or builder in your community, it is your responsibility to prevent sediment pollution which degrades the streams in your community. By properly managing erosion and runoff from your site, you can be a good neighbor.

There are several areas where preventable mistakes are commonly made.

1. Not having a plan or not obtaining the needed permits.
2. Not following the planned construction sequence.
3. Not installing the planned erosion control Best Management Practices (BMPs)
4. Improper installation of BMPs.
5. Not maintaining BMPs in proper working condition.
6. Not stabilizing the construction site as planned for or required.
7. Not complying with conditions of permits.
8. Not providing training or guidance to employees regarding erosion and sediment control.

These mistakes can cause delays in construction by:

1. Erosion and sediment control BMPs that are not installed correctly the first time needing to be reinstalled.
2. Time spent on repairing or remediating damages from the improper installation of BMPs, not maintaining BMPs or failing to follow an E and S plan.
3. Time spent in meetings with the Conservation District or Department of Environmental Protection staff to correct mistakes.
4. And, in the worst case scenario, time lost while enforcement procedures are conducted. In this case, in addition to delays, fines may also be imposed.



Proper and timely site stabilization prevents erosion, protecting streams and saving you time and money. Stabilization of this slope will prevent erosion.

Time and Money Saving Tips

The following suggestions will help you to avoid common problems and delays in construction due to erosion and sediment pollution control problems. Following these recommendations will not only save you time and money during construction, it can also help to establish you and your company as a good neighbor in your community.



Silt fence, properly installed, keeps sediment from washing into streams. It also prevents the need to install it a second time, saving you time and money. The sediment will need to be removed from this fence to keep it functioning.

- Contact the Conservation District to find out what the erosion and sediment pollution control requirements are for your project well in advance.
- Ensure the erosion and sediment control plan is being followed, including construction sequencing.
- Do not "cut corners" in planning or installation of BMPs. If there isn't time or money to do it right the first time, where will you find the time or money to do it a second time.
- Inspect and maintain BMPs, especially after each measurable rain, to ensure they are functioning properly and keeping sediment from reaching our streams. Make repairs to BMPs immediately to ensure they will function properly.
- Ensure contractors have access to and understand the plan and correct installation procedures.
- Ensure that all your appropriate employees are adequately trained.
- If a problem does arise, contact the Conservation District. The Conservation District is willing to work with you to prevent sediment pollution.

Contact the Dauphin County Conservation District Staff

717-921-8100

E&S Department Staff:

Tia Kissinger - Resource Program Supervisor
Cell: (717) 877-6241

Shane Fleming - Resource Conservationist
Cell: (717) 982-0844

Natasha Page - Resource Conservationist
Cell: (717) 871-9028

Alexandra Whittington - Resource Conservationist
Cell: (717) 319-8186

Visit the Conservation District Website at:
www.dauphin.cd.org



This silt fence was not installed correctly and will not function. It should be "trenched" in to prevent sediment from washing under it. The time spent installing it incorrectly is wasted time. It will need to be reinstalled correctly.

CAP COG



You Can Help to Prevent Stormwater Pollution!!

Stormwater pollution affects everyone. Stormwater picks up debris, chemicals, dirt, manure, and other pollutants as it flows over surfaces. These pollutants threaten our rivers, streams, and wetlands. We rely on these resources for drinking, recreation, and to support wildlife.

- Remember, only rain goes down the drain.
- Mulch grass; don't blow grass onto roads where it can enter storm drains.



- Wash your car over your lawn or gravel.
- Drain swimming pools into a grassy area.
- Minimize your use of lawn, garden, and salt-melt chemicals.
- Install a rain barrel or cistern to capture roof runoff.



For more ideas, visit DEP or your municipality's website.

In compliance with MS4 permits, this ad is sponsored & paid for by these members of the
 209 S. Sporting Hill Road, Mechanicsburg, PA 17050 717.761.6211

Annville Township	Highspire Borough	Paxtang Borough
Camp Hill Borough	Hummelstown Borough	Penbrook Borough Stormwater Authority
Carlisle Borough	Lemoyne Borough	Silver Spring Township
Carroll Township	Londonderry Township	Steeleton Borough
Dauphin Borough	Lower Allen Township	South Hanover Township
Derry Township Municipal Authority	Lower Paxton Township	South Middleton Township
Dillsburg Borough	Marysville Borough	Susquehanna Township
East Hanover Township	Mechanicsburg Borough	Swatara Township
East Pennsboro Township	Monroe Township	Upper Allen Township
Fairview Township	Newberry Township	West Hanover Township
Hampden Township/Hampden Township Sewer Authority	New Cumberland Borough	Wormleysburg Borough
	North Middleton Township	

Education and Outreach

MCM #1: BMP #4 & 5 - Stormwater Education program for local residents & other public outreach campaigns



EDUCATIONAL OUTREACH PROGRAMS

Date	Program Title	Target Audience	Location	# Registrants	# Attendees
September 2022	Rain Barrel Workshop	Residents	Sunset Golf Course	35	30
October 2022	Tree-via	Residents	Sunset Golf Course		35
February 2023	PSATS Presentation	Townships	Virtual	17	17
April 2023	Stormwater Round Table	Stormwater Network	Conservation Training Center, Shepardstown WV	50	50
June 2023	Penn Tec	Engineers	Hershey Lodge	35	35

Rain Barrel Workshop
For Homeowners

**With Londonderry Township &
Dauphin County Conservation District**

Did you know... you can protect local water quality by capturing rainwater on your property?

Join us for a **FREE** workshop to learn more about stormwater management and receive a **FREE** rain barrel for use at your home!

Registration is required.

This workshop is free, but participants are limited, so register soon!

When: 9/20/2022
6:00pm

Where: Sunset Bar & Grill
2601 Sunset Drive
Middletown, PA 17057

Londonderry Township Rain Barrel Workshop Registration Form
ONE REGISTRATION FORM PER HOUSEHOLD

Email information to MDykman@londonderry.pa.org
Or drop form at 783 S Geysers Church Rd, Middletown, PA 17053

Name _____ Email _____
Phone _____
Address _____



Tree-via

Celebrate Riparian Buffer Month at...

TREE-VIA

A TRIVIA event to celebrate trees, clean water,
and outdoor recreation.

OCTOBER 20TH, 2022
SUNSET BAR AND GRILL
2601 SUNSET DR, MIDDLETOWN, PA
EVENT BEGINS AT 5:30 TRIVIA BEGINS AT 6:30

Winning Trivia
Team will
receive a Rain
Barrel &
native
trees/shrubs

Raffle
to win a
Rain
Barrel

Hosted by:
Londonderry
Township
Manada
Conservancy
PSU Ag
Center
TCCCA
Mad Dash
Food Truck



October is Riparian Buffer Month



PSATS Presentation

SHAWN FABIAN, CPESC, CPSWQ

- Team Leader at HRG
- 20+ years of experience in environmental consulting and regulatory compliance
- President of the Yellow Breeches Watershed Association
- Board member of Conodoguinet Creek Watershed Association
- Master Watershed Steward - Cumberland/Franklin/Adams Counties
- Branch Leader for Cumberland County Riparian Ranger Program

MONIQUE DYKMAN

- MS4 Environmental Specialist at Londonderry Township
- Secretary of the Tri-County Conewago Creek Association
- Master Water Steward - Dauphin/Lancaster/Lebanon Counties
- Riparian Ranger in Lancaster

TODAY'S DISCUSSION

How to work across boundaries to achieve co-benefits of stream restoration

- Watershed Boundaries vs Municipal Boundaries
- Case study of Conewago Creek Stream Restoration
- Tips for how you can build partnerships and maximize the benefits of stream restoration in your community

WHAT IS A HYDROLOGIC UNIT CODE (HUC) 12?

Find yours at mywatershed.epa.gov

Watersheds are delineated by USGS using a nationwide system based on surface hydrologic features.

CONEWAGO CREEK

Turning an idea into a study and...

ABOUT THE CONEWAGO CREEK STREAM RESTORATION

- Lots of grant pursuits between 2018 and 2022 to fund the full project
- You definitely need to create a plan for what you want to accomplish and which grants

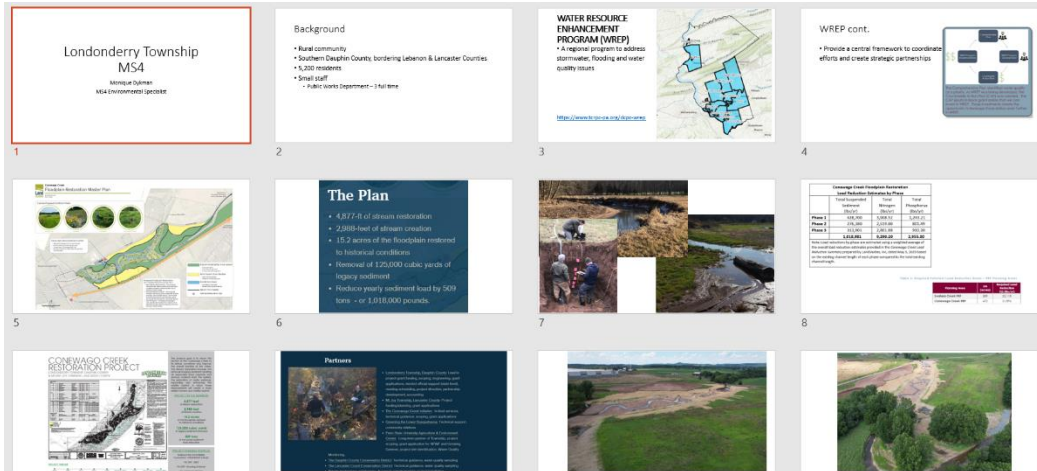
CONEWAGO CREEK

Impacts Partinent to USA

- 4,877 feet of stream restoration
- 2,988 feet of stream creation

1	Kathy Allen	Clinton Township, Butler County
2	Barbara A. Biedekapp	Pennsbury Township, Chester County
3	David Blocher	Cumberland Township, Adams County
4	Autumn Canfield	Tobyhanna Township, Monroe County
5	Alexandra Castrechini	Patton Township, Centre County
6	Dawn Didra	Heidelberg Township, Lehigh County
7	Erin R. Dinch	North Franklin Township, Washington County
8	William C. Duncan	Clinton Township, Butler County
9	Mark A. Hiester	Penn Township, Lancaster County
10	Jonathan D. Holmes	Jackson Township, York County
11	Kimberly Moretti	East Pikeland Township, Chester County
12	Denis Newbold	
13	Emily Pisano	Chadds Ford Township, Delaware County
14	Jennifer Prunoske	Hanover Engineering Assoc., Inc. - Ephrata
15	Tammy L. Ream	Springfield Township, York County
16	Chauncey Ross	White Township, Indiana County
17	Mark Sarson	Upper Southampton Township, Bucks County
	Vickie L. Smith	Genesee Township, Potter County

Stormwater Round Table



Agenda for 2023 Bay-wide Stormwater Retreat

RETREAT AGENDA AT A GLANCE	
DAY 1: April 12th	
Special Pre-Conference Hybrid Event:	
Stormwater Career Networking Event	
2:00 – 4:30	In this inaugural event, participants will have an opportunity to hear from a variety of industry leaders about the stormwater profession, and the skills that are necessary to succeed. There will then be networking opportunities provided to both in-person and virtual attendees.
DINNER	
5:30 - 7:30	
7:30 --	Networking
DAY 2: April 13th	
BREAKFAST	
Welcome and Opening Remarks	
8:30 – 8:45	<i>Speaker:</i> <ul style="list-style-type: none"> David Wood – Executive Director, CSN
Opening Plenary Session: Stormwater and the Chesapeake Bay Partnership in 2025 and Beyond	
8:45 – 10:00	<i>Speakers:</i> <ul style="list-style-type: none"> Adam Ortiz - EPA Regional Administrator: Region 3 Anna Killius - Executive Director, Chesapeake Bay Commission Kate Fritz - Executive Director, Alliance for the Chesapeake Bay
BREAK	
Track 1: Auditorium	
Track 2: 60-seat room	
10:30 – 11:45	A. MS4 Roundtable
	B. Urban Nutrients and Sediments
LUNCH	
11:45 – 12:45	
1:00– 2:15	C. Successful Collaborations in Urban Implementation
	D. More Meaningful Community Engagement

Londonderry Township

MCM #2: Public Involvement/Participation

- **Objective1:** Develop, implement and maintain a written Public Involvement/Participation Program (PIPP)
- **Objective2:** Advertise and solicit public new Stormwater Management Ordinances, Standard Operating Procedures, and Pollutant Reduction Plans (PRPs).
- **Objective3:** Regularly solicit Public Involvement and Participating via stormwater awareness meetings at the BOS meetings, hosting hands-on workshops on a variety of stormwater topics and host community action projects/volunteer opportunities marketed to target audience, monitor public participation (including IDDE Reporting) to gauge successfulness of educational program.

Londonderry Township, Dauphin County, PA is a Township of approximately 5,200 residents that has decided to conduct a general public meeting to discuss both the development and implementation of their stormwater program. The Township has also decided to hold several hands-on workshops with a variety of stormwater topics to involve the local community in activities improving stormwater BMPs. In addition, Londonderry Township has decided that working with local partner groups, like Penn State Extension, will allow them to reach a greater audience and continue to implement community action projects in the surrounding area.

Minimum Measure Objective: Involve stakeholder groups, including local governments, businesses, and citizens, in making decisions about stormwater management priorities and programs. Encourage the participation of local residents by hosting several workshops, and developing and implementing programs to help report and discourage illicit discharge and other unwanted activities.

- **Objective1:** Develop, implement and maintain a written Public Involvement/Participation Program (PIPP)
 - PIPP has been developed and is available on our website. Community members can seek involvement in MS4 program via email, Facebook, BOS meetings or in person.
 - PIPP:
 - Goal 1: Hold a public stormwater awareness meeting to educate and receive feedback on the MS4 program
 - The township will hold one general stormwater awareness meeting in conjunction with a summer Board of Supervisors meeting. The

presentation will educate the board and public about general stormwater management for property owners, the Township's MS4 program, and the MS4 permit. A sign-in sheet will be kept to track meeting attendance. Meeting minutes will be documented, and the stormwater awareness meeting will be listed as an agenda item, advertised with flyers and advertised online (website and Facebook), so the public is aware in advance of the scheduled presentation. (See MCM#6)

- Goal 2: Develop and host a hands-on workshop series with a variety of stormwater topics, and continue to develop this program, including keeping a list of target audiences
 - The Township will hold several hands-on workshops with a variety of stormwater topics to involve the local community in activities improving stormwater BMPs. In addition, Londonderry Township will create connections with local partner groups which will reach a greater audience and expand community action projects in the surrounding area. Topics include but are not limited to: rain barrels, composting, rain gardens, urban gardening, introduction of wildlife habitats through gardening, pollinator gardens, pesticide free gardening, naturalized stormwater meadows. Pamphlets will be distributed at each event. A sign-in sheet, copy of documents, and pictures will be kept for all workshops to track attendance. Workshops provide hands-on learning experience for members of the local community. It also allows township employees and residents to interact in a smaller setting, as well as give residents an opportunity to practice and try BMPs that have been discussed.
- Goal 3: Hold several coordination meetings with partner groups
 - Londonderry MS4 will involve stakeholder groups, including local governments, businesses, and citizens, in making decisions about stormwater management priorities and programs at monthly BOS meetings.
- Goal 4: Create community volunteer opportunities
 - With the help of partner organizations, organize at least two community action events per permit year. These projects will be planned with the objective of improving local stream and watershed quality, as well as improving the MS4. These volunteer opportunities will be published in advanced using the newsletter, Township website, Partner websites,

local newspapers and appropriate media. A record of all event materials as well as a list of volunteers in attendance will be kept.

- **Accountability:** Involving stakeholders in the stormwater management planning process will improve support for programs because the stakeholders will be able to voice their concerns and suggestions about the work of the MS4 program. Involving community members will increase education and participation.
- **Objective2:** Advertise and solicit public on new Stormwater Management Ordinances, Standard Operating Procedures, and Pollutant Reduction Plans (PRPs).
 - Prior to the adoption of any ordinance required by the MS4 permit, adequate public notice will be given as well as opportunities for public review, input and feedback. This notice will be given on Londonderry’s website and at relevant BOS meetings.
 - Londonderry’s PRP has been developed, and accepted. Any changes to this will be advertised at BOS meeting, on the website, on Facebook and in the Township newsletter.
 - Annual Report is available on Londonderry Township’s website, which will be promoted on Facebook. A hard copy will be kept in the office, and will be referenced in the relevant BOS meetings.
 - **Accountability:** Londonderry Township will address the public, and record minutes at the BOS meetings, allowing the public to comment. The website will also serve as an outreach method, which will be trackable via google analytics and email responses.
- **Objective3:** Regularly solicit Public Involvement and Participating via personal interactions with MS4 Department. Londonderry Township will educate and encourage reporting of Illicit Discharges and publicize the SWMP. Via:
 - Londonderry will make efforts to reach the public at their monthly BOS meeting presentation, and once a year at the Stormwater Awareness focused BOS meeting (see MCM6).
 - With the help of partner organizations like Penn State Extension and Manada Conservancy, organize at least two community action events per permit year. These projects should be planned with the idea of improving local stream and watershed quality as well as improving the MS4 (tree-plantings, litter clean-ups along stream sides or roadways (target local groups: Boy Scouts, college environmental groups/clubs, HS sports team [swimmers])). Publish these projects well in advance using the newsletter, Township website, partner websites (Chesapeake Bay Foundation, Penn State Extension), newspapers, and other appropriate media. A record of all event materials as well as a list of volunteers in attendance will be kept.

- Hold several meetings with partner groups. The Township will hold coordination meetings involving Penn State Extension, Chesapeake Bay Foundation, Manada Conservancy, Conewago Creek Initiative, Alliance for the Bay and other interested stakeholders to discuss progress of the stormwater management program and upcoming activities/projects at least once every permit year.
- The Township's education program will prove to be successful with an increase of public awareness, measured by complaints related to stormwater. The Township will document any evidence of public participation by utilizing a tracking system to monitor any information/complaints received by the public pertaining to stormwater management, illicit discharge, construction runoff, and concerns about the storm sewer system. The tracking system consists of a spreadsheet and a call form with the content to be filled in as provided by the public. The content will pertain to the date of the complaint, construction project name, incident type, action taken to resolve the incident/complaint, and the municipal employee initiating the follow-up action. See the Address Illicit Discharge Procedure in the Operations and Maintenance Plan for Illicit Discharge protocol and chain of command. See documentation MCM3.
 - **Accountability:** Involving the local community in action projects gives citizens a vested interest in their local environment. It also educates and solicits participation from community members. As more citizens become involved in projects like these, hopefully word will spread about MS4 and the importance of keeping the watershed clean.
 - Coordination with other jurisdictions, regulatory agencies, partner organizations, and citizens helps to identify common goals, such as improving water quality, that are not defined by geographic boundaries. Responsibility for tasks that further these common goals can be distributed among these parties to use funding and labor efficiently.
 - Involving the local community in the reporting of illicit discharge and other stormwater hazards will allow the Township to better monitor and care for their jurisdiction. Incidents/complaints will be recorded, resolved, and then filed for future use. These incident reports can later be tracked and plotted to compare higher frequency of occurrences and other statistical data analysis. This line of communication will also help to improve stormwater awareness in the Township about the locally impaired watershed.

Reviewed 3/13/2022.




Reviewed 1/8/2021.

Updated to better align with permit requirements 7/30/2020.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 5/3/2018.

Appendix C MCM#2 (Figure 1)

MCM #2: BOS Meetings		
  		
Date	Meeting	Meeting Objectives
6/6/2022	BOS	See Meeting Minute Examples
7/5/2022	BOS	See Meeting Minute Examples
8/1/2022	BOS	See Meeting Minute Examples
9/5/2022	BOS	See Meeting Minute Examples
10/3/2022	BOS	See Meeting Minute Examples
11/7/2022	BOS	See Meeting Minute Examples
12/5/2022	BOS	See Meeting Minute Examples
1/3/2023	BOS	See Meeting Minute Examples
2/6/2023	BOS	See Meeting Minute Examples
3/6/2023	BOS	See Meeting Minute Examples
4/3/2023	BOS	See Meeting Minute Examples
5/1/2023	BOS	See Meeting Minute Examples

All meeting notes can be found here: <https://www.londonderrypa.org/board-of-supervisors.php#gsc.tab=0>

Example of two months are below.

assisting in organizing the office, issuing permits and preparing for Planning Commission meetings.

MS-4 Environmental Department – Monique Dykman, MS4 and Environmental Department Head

Monique Dykman, MS4 and Environmental Department head reviewed the following for the month of April:

- Presented on a panel at the Chesapeake Stormwater Network
 - Met with LCCD on Conewago Phase 2, to receive reimbursement from Lancaster Clean Water Partners CAP Grant; Signed & submitted NFWF Contract
 - Coordinated with a Riparian Ranger to host volunteer event on Swatara Creek Road to replace shrub tubes with tree tubes
 - Continue to update 2nd version of Model Ordinance
 - Attended PSATS Conference
 - Statistics from Conewago Story Map in past 60 days & past 12 months
 -
- She also discussed the two-following graphics, the first being the amount of views on the Conewago Creek Project story map following her presentation at the Chesapeake Stormwater Network and the second being registrations for the 5K race by region of registration.

MS-4 Environmental Department – Monique Dykman

No Board Action Required:

Progress Report for Environmental MS4 Department January

- Began fundraising for 5k from Township Vendors



- Hosting Conewago Creek Initiative (CCI) Yearly Planning Meeting at Sunset on 2/23/23
- Finalizing signage from CWP grant with TCCCA, to be posted along Conewago Recreation Trail
- Continue to update 2nd version of Model Ordinance
- The Twp. is on schedule to wrap up Phase 3 of the Conewago Creek Project, and anticipate to continue on schedule.

Water Resource Enhancement Program (WREP) Update

Mr. Letavic responded to the request from Mr. Hershey for an update on the progress of the Water Resource Enhancement Program (WREP). To date, 15 surrounding Municipalities have joined the program, and are earning between 50-90% credits for state mandated sediment removal. The program also allows those in the group to apply for future grants in a collaborative fashion.

Appendix C MCM#2 (Figure 2)

MCM #2: Meetings With Partner Groups

	<p><u>PARTNER GROUP MEETINGS</u></p>	
Date	Meeting/Project Name	Meeting Objectives
10/28/2022	Conewago Creek Initiative	Partner Updates
5/1/2023	Conewago Creek Initiative	Partner Updates
8/29/2022	Conewago Creek Initiative	Partner Updates
2/6/2023	LTAR Tour of Conewago	Data Collection Updates
1/24/2023	MS4 Work Group	Funding Opportunities
2/23/2023	Conewago Creek Initiative Celebration	Partner Updates

Conewago Creek Initiative Meeting
2/23/23 1pm
Sunset Golf Course

Minutes

Monique Dykman, Elli Liput, Brian Gish, Kristen Koch, Katie Holen, Reid Garner, Shawn Fabian, Beck Chickillo, Katie Bartling, Joel Rotz, Nate Straw, Matt Royer, Matt Kofroth

- 1) Conewago GIS Project Map
 - a) Add projects you are involved with to Penn State map to keep track of projects done in the Conewago or email kfb5680@psu.edu to input projects.
- 2) Grant Funding Updates
 - a) No NFWF Updates
- 3) Project Updates
 - i) Swatara Beagle Club – Shrub habitat for rabbits, invasive problem, stream restoration opportunity
 - (1) Elli and Kristen have been working with SBC on stream restoration w/ 180-degree bends
 - (a) Seeking Fish & Wildlife/CAP Funding
 - (b) Looking into EQIP vs other funding
 - (c) Upland – shrub land/pollinator habitat; seeking funding for brush removal
 - (2) Colebrook Game lands – working to control invasive species, looking to plant shrubs fall 2023 or 2024 with volunteers

- 4) Conewago Restoration Construction
 - a) Completed Phases 1 & 3 earth moving
 - b) Phase 2 under earth moving/excavation construction
 - c) Berm will be in place until vegetation is able to get established on secondary channels
 - d) Long term monitoring potential
 - i) Sediment load reductions, deposition monitoring
 - ii) PSU long term plots – biodiversity & ecological uplift
 - iii) Research Field Day – Rocky Powell (Ohio)
 - (1) Outdoor component to research conference
 - e) Contingency from project should be used for DANGER signs for Farm bridge
 - i) Fish & boat – label/classified as dam. Get funded to be removed.
- 5) C3RP
 - a) [REDACTED] approved for funding
 - i) [REDACTED] – project moving ahead: roofed mortality composting facility, off stream watering
 - (1) Looking use CAP funds via Team Ag for implementation funds
 - ii) NRCS funding – follow up with landowner
 - (1) Risser cattle farm – Buffer bonus (2 acres, small tributary)
 - (2) [REDACTED] – Dairy Farm, 10 acres of buffer restoration & EQIP animal EQIP
 - iii) Joel Rotz is newly on board with Ag & Environment Center. Has made good leads in Conewago Watershed
- 6) Outreach
 - a) Greening Lower Susq
 - i) Friends in Action Intl buffer planting on Tributary 4/29

- (1) Looking into 319 funds to restore a stormwater ditch as a secondary project
- b) TCCCA Updates
 - i) Signs along recreation trail (Lancaster Clean Water Partners funding), will install before 4/2
 - ii) 319
 - (1) 2018 Grant – Extension through end of July 2023
 - (a) Riparian buffer and cattle farm improvements, First UNT North. Working with TeamAg to engage landowner
 - (b) Stream restoration w/ Fish & Wildlife on mainstem Conewago, lower watershed. Low lying shrubs under powerline. PPL Temporary Easement has been approved.
 - (c) [REDACTED] stream restoration - Working with US Fish and Wildlife Service. TCCCA will organize volunteer replant of buffer once stream work is complete.
 - (2) 2022 Grant: recently awarded, submitted signatures, waiting on final grant agreement
 - (a) Will fund design and permitting
 - (i) Stream restoration before Unnamed Trib 1st North enters Conewago on dairy farm
 - (ii) Stream restoration on Hoffer Creek
 - (iii) Project right above Londonderry's restoration, stream restoration & eroded swale may be replaced with higher priority project within watershed. TBD

- 7) Conewago Darter Sk & 1-mile fun run & Community Field Day
- a) April 2nd, 2023 10am-1pm
- b) Runners will park at Distribution Center on 230. Bus to Old Trolley Line Park. Runners run to trail head at route 230.



MS4 WORKGROUP
 QUARTERLY MEETING
 TUESDAY JANUARY 24, 2023





SUSQUEHANNA TOWNSHIP MUNICIPAL BUILDING

AGENDA

- 9:00 Welcome & Introductions
- 9:10 Presentation: PEMA BRIC Program
- 10:15 BMP tour discussion – potential project site locations
- 11:00 Wrap – Up

Appendix C MCM#2 (Figure 3)

MCM #2 Volunteer Events		
	<u>Municipal Projects</u>	
Date Completed	Project Title	Description of Project
4/2/2023	Riparian Buffer @ Conewago Darter	30 volunteers
5/20/2023	Buffer Maintenance Swatara	5 volunteers



Appendix C MCM#2 (Figure 4)

Ordinance can be found:

https://www.londonderry.org/pdfs/uploaded/ordinances_recently_adopted/2023-07-07%20104022_2023-02.pdf

Public notice:

The screenshot shows a web browser window with the URL publicnoticepa.com. The page features a search interface on the left and search results on the right. The search criteria include the term "londonderry", a date of "06/27/2023", and the publication "The Patriot-News". Two results are displayed, both for "Legal Notice" in "THE PATRIOT-NEWS". The first result is for "CUMBERLAND COUNTY, PENNSYLVANIA" and the second is for "DAUPHIN COUNTY, PENNSYLVANIA". Both notices mention a public meeting on July 3, 2023, at 7:00 p.m. at the Londonderry Township Municipal Building, 783 South Gevers Church Road. A "Place Notice" button is visible in the bottom right corner.

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publicnoticepa.com

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Showing 2 results

THE PATRIOT-NEWS
Legal Notice
Notice The Board of Supervisors of the Township of **Londonderry**, Dauphin County, Pennsylvania will hold a public meeting on July 3, 2023, at 7:00 p.m. at the **Londonderry** Township Municipal Building, 783 South Gevers Church Road, Londonderry, PA 17043.

CUMBERLAND COUNTY, PENNSYLVANIA

THE PATRIOT-NEWS
Legal Notice
Notice The Board of Supervisors of the Township of **Londonderry**, Dauphin County, Pennsylvania will hold a public meeting on July 3, 2023, at 7:00 p.m. at the **Londonderry** Township Municipal Building, 783 South Gevers Church Road, Londonderry, PA 17043.

DAUPHIN COUNTY, PENNSYLVANIA

Reset Get Alerts

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+ Place Notice

Londonderry Township

MCM #3: Illicit Discharge Detection and Elimination Minimum Measures

- **Objective1:** Maintain a written procedure for IDD&E by:
 - **Objective1A:** Identify priority areas.
 - **Objective1B:** Determine procedures for screening outfalls in priority areas, once determined, identify source, and determine how to eliminate.
 - **Objective1C:** Maintain procedures to handle sewage disposal systems as the cause for an illicit discharge.
 - **Objective1D:** Gain access to private property to inspect outfalls.
 - **Objective1E:** Procedures for program documentation, evaluation and assessment.
 - **Objective1F:** Procedures for addressing information, or complaints received from the public.
- **Objective2:** Develop and maintain Urbanized Area map and locations of outfalls and observation points.
- **Objective3:** Expand map to throughout MS4 jurisdiction; include entire storm sewer collection system owned and maintained by Londonderry Township, additionally include privately owned components.
- **Objective4:** Conduct dry weather screenings of the MS4 outfalls to evaluate the presence of illicit discharges. If detected, follow procedures outlined in Objective1.
- **Objective5:** Maintain and update Stormwater Management Ordinance/Standard Operating Procedure in order to enforce SWMP that to eliminate non-stormwater discharges.
- **Objective6:** Provide educational outreach to target audience about the program to detect and eliminate illicit discharges.

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has implemented an Illicit Discharge Detection & Elimination (IDD&E) system to best manage storm water regulations as required by their MS4 permit. The IDD&E program will utilize several existing procedures as well as develop new ideas to best eliminate illicit discharges into the MS4.

Minimum Measure Objective: The purpose of the IDD&E program is to establish and carry out procedures to identify and remove illicit discharges, establish legal authority for enforcement actions, and encourage public education and involvement in eliminating illicit discharges. The illicit discharge elimination program will also allow the Township to continue to develop the comprehensive map of the storm drain system.

- **Objective1:** Maintain a written procedure for IDD&E by:
 - **Objective1A:** Identify priority areas.
 - This will be determined based on where illicit discharges have been detected previously, or in highly urbanized areas. See Objective1E.
 - **Objective1B:** Determine procedures for: A) screening outfalls in priority areas, once determined, identify source, and determine how to eliminate; and B) addressing information, or complaints received from the public.
 - See document “Londonderry Township Addressing Illicit Discharge Procedure”; Fill out top portion of “Londonderry Township MS4 Concern Form”, form should be handled via “Illicit Discharge Reporting Flow Chart” [or MS4 Coordinator (if not available direct to Codes and Zoning Officer, then Township Manager)]. MS4 coordinator will conduct evaluation of discharge to determine if illicit. If illicit, MS4 coordinator will evaluate cause of discharge, provide education and if needed contact local authority to administer fine.
 - If the spill is large, or otherwise uncontrollable, or possesses immediate danger to life, the environment, or property call 911 or DEP South Central Regional Office: 1-800-541-2050.
 - All reports will be evaluated as outlined in Objective1E.
 - **Objective1C:** Maintain procedures to handle sewage disposal systems as the cause for an illicit discharge.
 - The Township has enacted an Ordinance in 2013 for O.L.S.D.S. and works to educate the public via newsletter and Township website. Website connects visitors to certified Pumper-Haulers.
 - Reports of faulty sewage disposal system, MS4 Coordinator will conduct site visit, and administer tests as necessary.
 - **Objective1D:** Gain access to private property to inspect outfalls.
 - **Objective1E:** Procedures for program documentation, evaluation and assessment.

- Each year, during the annual report development, the IDD&E program will be evaluated and updated accordingly. Any newly constructed outfalls will be added to the map. All IDD&E reports will be compiled to ensure that all citizen concerns have been addressed. Township staff will review MS4 concern forms, specifically the outcomes of these cases. If staff notices a specific area in the Township has an unusually high volume, or an area has an increase in reports as compared to years past, these may be indicators that changes need to be made to procedures, education, and the focus of minimum control measures redirected. These files will be reviewed for completion, and a summary report will be compiled for the annual report, documenting the follow-up action taken for each report. Files will be included in Annual Report.

Accountability: The Township will continue to develop their IDD&E, utilizing call forms and training sessions. Reviewing the IDD&E program will help staff to understand which parts of the program are working successfully or unsuccessfully, and will ensure the completion of all reports, and the amendment of stormwater issues, prior to the compilation of the annual report. In the summer of the current permit year, a training session will be held for each municipal staff department (office staff, public works, golf course, and codes/zoning). The Township phone number and Environmental Department cell phone number will be published as a reminder for citizens to report illegal dumping and suspicious discharges. The phone number will be advertised in the Township newsletter, bulletin board, website, and Facebook.

- **Objective2:** Develop and maintain Urbanized Area map and locations of outfalls and observation points. Expand map to throughout MS4 jurisdiction; include entire storm sewer collection system owned and maintained by Londonderry Township, additionally include privately owned components.
 - Londonderry Township utilizes, and will expand, a GIS mapping system to maintain records of outfalls, observation points, storm sewer collection systems and is working to include privately owned components.
- **Objective4:** Conduct dry weather screenings of the MS4 outfalls to evaluate the presence of illicit discharges. If detected, follow procedures outlined in Objective1.
 - *Any newly constructed outfalls should be added to the map at the end of the permit year and visited in the subsequent permit year.*
 - The township will work to incorporate an electronic database collection system (GIS) to better organize and utilize data collected. All outfall inspections will be reported on DEP MS4 Outfall Field Screening Report.

- If dry weather screenings produce flow, refer to Objective 3E.
 - **Accountability:** The MS4 infrastructure map will be utilized in ascertaining the areas of greatest concern, tracing back illicit discharges to their source, eliminating illicit connections, and overall asset management as the storm sewer system is upgraded over time.

- **Objective5:** Maintain and update Stormwater Management Ordinance/Standard Operating Procedure in order to enforce SWMP that to eliminate non-stormwater discharges.
 - **See MCM2 Objective 2**

- **Objective6:** Provide educational outreach to target audience about the program to detect and eliminate illicit discharges.
 - **See MCM2 Objective 3**
 - **Accountability** Phone contacts will supplement the municipality’s own efforts of physically conducting outfall inspections. Advertisement of the program and contact information will promote public awareness of their responsibility to report illicit discharges and avoid causing an illicit discharge. A Township goal is to facilitate the clean-up and remediation of illegal dumping sites, which have the potential to contaminate surface and ground water sources. The intent is to promote the IDD&E program to improve public involvement and help inform the public about the hazards of illicit discharges and illegal dumping.

- **Objective7:** Identify illicit connections through dry weather screening and “stream walks”
 - Londonderry Township contains approximately 63 stream miles. Each permit year, 25% of streams will be walked and potential illicit connections will be located. The ‘stream walk’ will occur in the fourth quarter of the current permit cycle or in the first quarter of the upcoming permit cycle, with the intent that leaf cover is not yet fully developed and the weather has warmed. This dry weather screening will include water sampling and testing for dry weather flows in the event that they were not previously tested and determined to be a legal connection. The purpose of this activity is to identify and eliminate illicit discharges into Township streams.
 - **Inspection Cycle Year 1:** Iron Run Urbanized Area
 - **Inspection Cycle Year 2:** 283 Corridor Urbanized Area
 - **Inspection Cycle Year 3:** Conewago Creek Urbanized Area
 - **Inspection Cycle Year 4:** Susquehanna River Urbanized Area

- All identified discharges will be marked, tested, and documented. In the event that the Township determines that any of the discharges identified are prohibited under subsection §150.4 of the SWMO, the Township will notify the responsible person(s) to cease the discharge (§150.5). Upon notice provided by the Township, the discharger will have reasonable time, as determined by the Township, to cease the discharge, consistent with the degree of pollution caused by the discharge (§150.6).
- **Justification:** Stream walks are the most direct way to detect and eliminate illegal connections and unmapped outfalls. Stream teams will be tasked with walking along streams identified as “high risk” or with possible TMDL loading restrictions. Teams will confirm previously mapped outfalls, test dry weather flows and attempt to locate the potential pollution source.

Londonderry Township

Addressing Illicit Discharge Procedure

Follow these steps to insure a proper illicit discharge reporting procedure

1. Reporting the illicit discharge
 - a. For calls into the Township Office, direct the call to the MS4 Coordinator
 - i. If they are not available, proceed to step 2
 - ii. If the spill is large or otherwise uncontrollable, or possesses immediate danger to life, the environment, or property; ask for the person's location and tell them to hang up and dial 911
 - b. For staff found illicit discharges proceed to step 2
2. Fill out the top portion of the “Londonderry Township MS4 Concern Form”
3. Give the form to the MS4 Coordinator
 - a. If they are not available, give form to the Public Works

- i. If they are not available give form to the Fire Department.
- 4. The MS4 Coordinator, Public Works, and Fire Department has a maximum of 1 business day to respond. Response is carried out through...
 - a. Field visit
 - i. During field visits, there must always be two people
 - b. Take pictures
 - c. Conduct water tests if needed- contact HRG for assistance when needed
 - d. Fill out field report
 - i. If there is no way to determine an actual illicit discharge, we will continue to check the site from time to time.
- 5. If illicit discharge is grey water, SEO must be contacted
- 6. The MS4 Coordinator will then bring back the findings and determine:
 - a. How to fix the problem
 - b. Who is responsible
 - c. Is this a public works or codes issue
 - d. If it is a codes issue; The Code/Zoning Officer will then issue a notice of violation within 72 hours of call
 - i. Yellow notice on door
 - ii. Both a certified and non-certified letter
- 7. The Code/Zoning Officer will determine the appropriate time frame on resident resolution within the enforcement ordinance and confirm with resident that the time frame is achievable

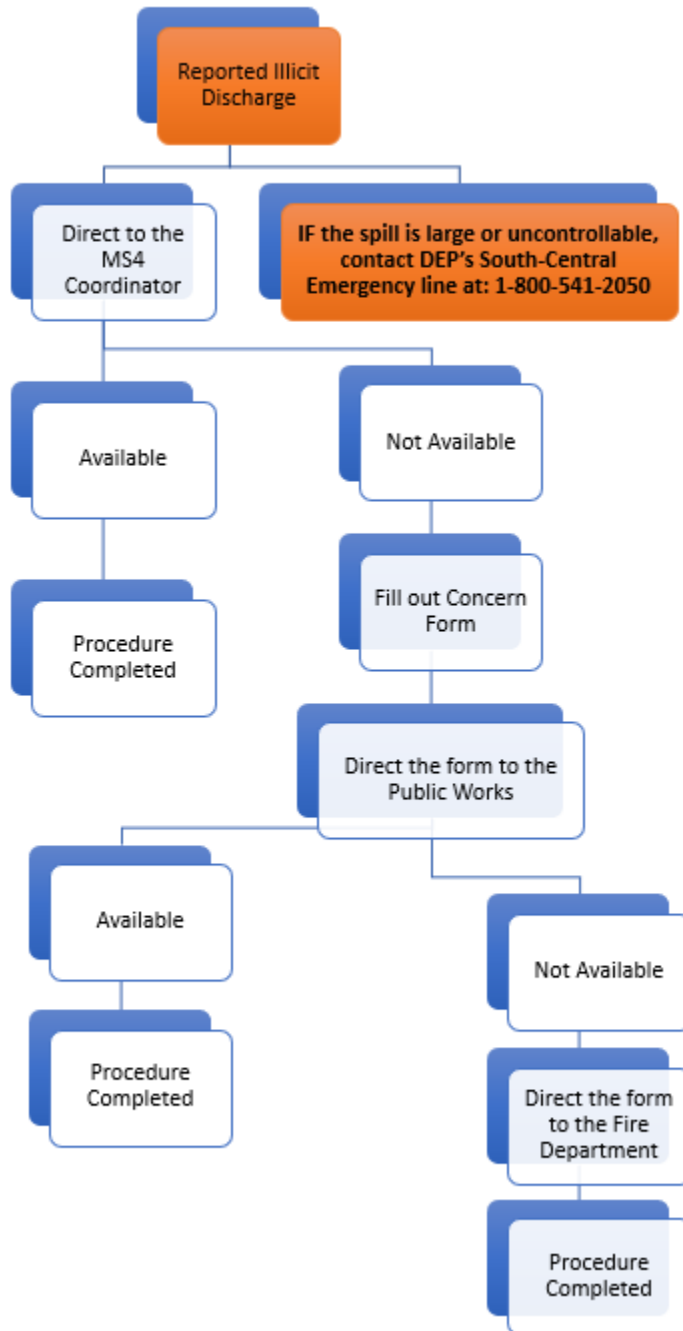
Updated Report Illicit Discharge Flow Chart 8/2/2022.

Revised 9/28/2021 to update chain of response.



Revised 1/8/2021. Updated 8/4/2021 DEP Emergency Number.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current township programs and abilities 6/10/19.

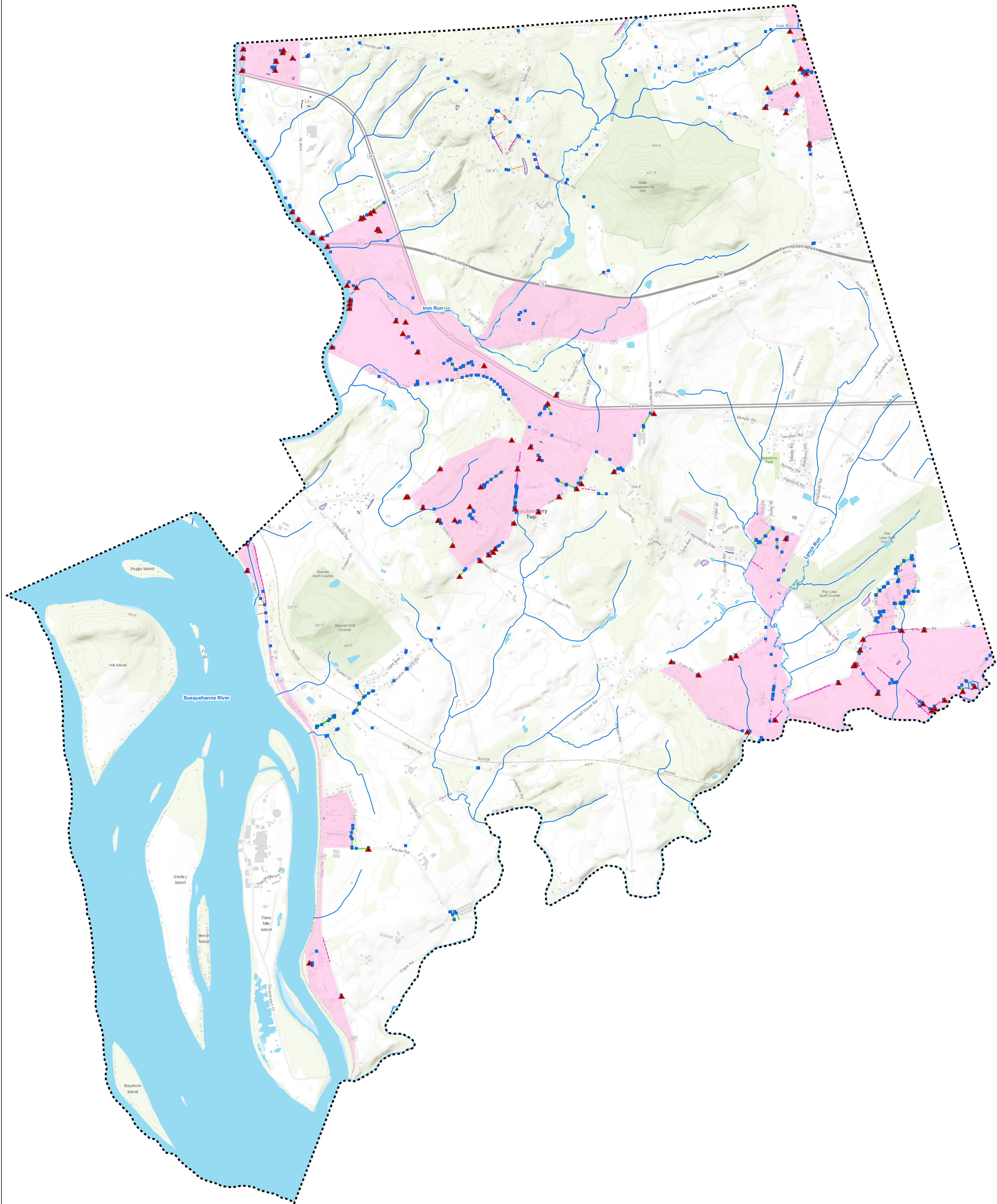


Appendix D MCM#3 (Figure 2)

MCM #2/MCM #3 - Public reporting of suspected illicit discharges/Establish an illicit discharge/illegal dumping reporting program							
		<p align="center">MUNICIPAL STORMWATER ILLICIT DISCHARGE REPORTS</p>					
Date	Name of Person Reporting the Incident	Reporter Contact Info (Phone #/Email)	Location	Incident Type	Date Followed up	Followed-Up By:	Resolved (Y/N)
No reports made							

Appendix D MCM#3 (Figure 3).

Map created on GIS, can be altered to show different layers and information.



1,500 0 1,500
 Feet
 Mapping derived from data provided by Dauphin County, US Census, USGS, and PA DEP.
 8/9/2023 | PM:SEF | GIS:MSM | QA:MSM | R001068.0436
HRG
 Hensel Rowe & Associates, Inc.
 Engineering & Related Services
 An Employee-Owned Company
 369 East Park Drive
 Harrisburg, PA 17111
 717.564.1151 (phone)
 717.564.1158 (fax)
 www.hrg-inc.com

- ▲ MS4 Outfall
- Other Outfall (State/Private/Other)
- Inlet
- Manhole
- Stormwater Pipe
- Open Drain
- Virtual Drainline
- ▨ Basin
- Stream
- Waterbody
- Urban Area
- Township Boundary

MS4 Map
 Londonderry Township
 Dauphin County, Pennsylvania



MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION				
Permittee Name: Londonderry Township Dauphin County		NPDES Permit No.: PA133547		
Date of Inspection: November 14, 2022		Outfall ID No.: 141		
Land Uses in Outfall Drainage Area (Select All): <input type="checkbox"/> Industrial <input type="checkbox"/> Urban Residential <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Open Space <input type="checkbox"/> Other:		Latitude: 40.18376929000		
		Longitude: -76.69377271000		
		Dry Weather Inspection? Yes		
		Date of Previous Precipitation: November 11, 2022		
		Amount of Previous Precipitation (in):		
Inspector Name(s): Monique		Were Photographs Taken? Yes		
		Are Photographs Attached? Yes		
OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input checked="" type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other Other:	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple Other:	Diameter: 15 in	<input type="checkbox"/> In Water <input type="checkbox"/> <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Pipe	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other	Depth: in Top Width: in Bottom Width: in	
Dry Weather Flow Present at Outfall During Inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Description of Flow Rate: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Significant <input checked="" type="checkbox"/> N/A				
DRY WEATHER FLOW EVALUATION				
Does the dry weather flow contain color? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide a description below.				
Does the dry weather flow contain odor? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.				
Is there an observed change in the receiving waters as a result of the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.				
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.				
Were sample(s) collected of the dry weather flow? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, No. Samples:				

FIELD/LABORATORY ANALYSIS					
PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL

pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other:			Oil and Grease		mg/L
Other:			Nitrate / Nitrite		mg/L

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? Yes No

Describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL 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).

Monique Dykman

Responsible Official Name

717-944-1803

Telephone No.



Signature

November 14, 2022

Date

Outfall Photograph:



November 14, 2022

Map Location:





MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION	
Permittee Name: Londonderry Township Dauphin County	NPDES Permit No.: PA133547
Date of Inspection: November 14, 2022	Outfall ID No.: 222
Land Uses in Outfall Drainage Area (Select All): <input type="checkbox"/> Industrial <input type="checkbox"/> Urban Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Suburban Residential <input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Other:	Latitude: 40.14699101000
	Longitude: -76.70099585000
	Dry Weather Inspection? Yes
	Date of Previous Precipitation: November 11, 2022
	Amount of Previous Precipitation (in):
Inspector Name(s): Monique	Were Photographs Taken? Yes
	Are Photographs Attached? Yes

OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other Other:	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple Other:	Diameter: 30 in	<input type="checkbox"/> In Water <input type="checkbox"/> <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Pipe	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other	Depth: in Top Width: in Bottom Width: in	
Dry Weather Flow Present at Outfall During Inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Description of Flow Rate: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Significant <input checked="" type="checkbox"/> N/A				

DRY WEATHER FLOW EVALUATION
Does the dry weather flow contain color? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Does the dry weather flow contain odor? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Is there an observed change in the receiving waters as a result of the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Were sample(s) collected of the dry weather flow? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, No. Samples:

FIELD/LABORATORY ANALYSIS					
PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL

pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other:			Oil and Grease		mg/L
Other:			Nitrate / Nitrite		mg/L

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? Yes No

Describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL 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).

Monique Dykman

Responsible Official Name

717-944-1803

Telephone No.



Signature

November 14, 2022

Date

Outfall Photograph:



November 14, 2022

Map Location:





MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION	
Permittee Name: Londonderry Township Dauphin County	NPDES Permit No.: PA133547
Date of Inspection: June 20, 2023	Outfall ID No.: 239
Land Uses in Outfall Drainage Area (Select All): <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Urban Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Open Space <input type="checkbox"/> Other:	Latitude: 40.1665321
	Longitude: -76.64453335
	Dry Weather Inspection? Yes
	Date of Previous Precipitation: June 17, 2023
	Amount of Previous Precipitation (in): 0.1
Inspector Name(s): Monique Dykman	Were Photographs Taken? Yes
	Are Photographs Attached? Yes

OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other Other:	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple Other:	Diameter: in	<input type="checkbox"/> In Water <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Pipe	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other	Depth: in Top Width: in Bottom Width: in	

Dry Weather Flow Present at Outfall During Inspection? Yes No

Description of Flow Rate: Trickle Moderate Significant N/A

DRY WEATHER FLOW EVALUATION
Does the dry weather flow contain color? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide a description below.
Does the dry weather flow contain odor? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Is there an observed change in the receiving waters as a result of the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide a description below.
Were sample(s) collected of the dry weather flow? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, No. Samples:

FIELD/LABORATORY ANALYSIS					
PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L

Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other:			Oil and Grease		mg/L
Other:			Nitrate / Nitrite		mg/L

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? Yes No

Describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL 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).

Monique Dykman



Responsible Official Name

Signature

717-944-1803

June 20, 2023

Telephone No.

Date

Outfall Photograph:



June 20, 2023

Map Location:



Londonderry Township

MCM #4: Construction Site Runoff Control Minimum Measure

- **Objective1:** A building, other permit, or final approval may not be issued to those proposing or conducting earth disturbances requiring an NPDES permit, unless the party has a valid NPDES Permit Covered under 25 PA Code Chapter 102.42.
- **Objective 2:** If/when a permit is issued, DEP will be notified within 5 days of the receipt of an application for a permit involving earth disturbance activity consisting of one acre or more, in accordance with 25 PA Code 102.42
- **Objective 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.

Construction sites can be a significant contributor of sediment to MS4s. As a result of the municipal land development review process, Londonderry Township supports the Dauphin County Conservation District (DCCD) in maintaining paperwork for and inspecting all permitted construction projects, through a memorandum of understanding, last updated and executed on April 3, 2014. The Township Engineer also provides construction site inspection with the purpose of observing the installation of public improvements and ensuring that Chapter 102 and NPDES regulations are being followed by the contractor.

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities that result in a land disturbance of greater than or equal to one acre. Londonderry Township proposes the following BMPs and measurable goals in order to best manage local construction activities.

- **Objective1:** A building, other permit, or final approval may not be issued to those proposing or conducting earth disturbances requiring an NPDES permit, unless the party has a valid NPDES Permit Covered under 25 PA Code Chapter 102.42.
 - All reported violations will be recorded on the MS4 Concern form which will prompt the Environmental department to either inspect an illicit discharge, construction violation, E&S, or some other MS4 related violation. Proper waste disposal will also be reviewed during the onsite construction inspection by the Township, Township Engineer, and/or the County Conservation District.

- **Accountability:** It has been determined that land development has the potential to be a large contributor of pollution and/or sediment into the Township’s MS4. Therefore, to best manage this potential, the Township will educate and inform applicants of some common mistakes, and make them aware of specific ordinances (Chapter 26 Part C § 112 General Requirements). The MS4 concern form will trigger a prompt response from Township employees to investigate potential violations. The codes/zoning officer will maintain a list of current land developments within the Township, and ensure with the help of the Township Engineer and DCCD compliance on these sites.
- **Objective 2:** If/when a permit is issued, DEP will be notified within 5 days of the receipt of an application for a permit involving earth disturbance activity consisting of one acre or more, in accordance with 25 PA Code 102.42
 - Dauphin County Conservation District (DCCD) and Londonderry Township require all land developments of greater than 1,000 square feet to obtain an approved E&S plan from the DCCD. The Township will target this activity through educational materials and direct conversations with permit applicants.
 - The Township will promote Low Impact Development (LID) to reduce the number of E&S violations, as well as serve to educate contractors and community members about best construction practices available. LID can be an effective tool to reduce E&S violations, as they reduce the volume of sediment disturbed and ultimately reduces exposed soils to precipitation, which will prevent sediment being displaced. Providing resources and education will allow developers and contractors to visualize their impacts on the storm system, and will help them to better understand their impact. Additionally, educating owners, designers and installers about proper selection, installation, inspection and maintenance of BMPs will help to ensure compliance with E&S requirements, as well as NPDES permit requirements.
- **Objective 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.
 - **Accountability:** In order to best use their resources, the Township would like to prevent as many violations as possible before they occur. Current Township ordinance, (Chapter 26 Part D § 117), states that all regulated activities include, to the maximum extent practicable, measures to meet water quality goals through a variety of techniques as stated in the above ordinance number. The Township’s ordinance encourages applicants to implement a list of BMPs to the maximum extent practicable. The Township believes that by educating every applicant they can reduce the overall number of complaints and violations pertaining to the ordinance and erosion and sedimentation plans.

Reviewed 3/14/2023.

Revised 1/8/2021.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 6/10/2019.

Appendix E MCM#4 (Figure 2)

MEMORANDUM OF UNDERSTANDING
BETWEEN THE
DAUPHIN COUNTY CONSERVATION DISTRICT
AND
LONDONDERRY TOWNSHIP



WHEREAS, the Dauphin County Conservation District, hereafter referred to as District, and Londonderry Township, hereafter referred to as Municipality, have common areas of responsibility in serving the citizens of Londonderry Township and

WHEREAS, there are common areas of work that require communication and support of each of these parties to the other party, and

WHEREAS, the District and the Municipality desire to formalize their interactions in relation to common programs and responsibilities, and

WHEREAS, this Memorandum of Understanding will serve as a foundation for a cooperative and mutually beneficial working relationship between the District and the Municipality,

NOW THEREFORE, the parties agree to jointly enter into this Memorandum of Understanding. The Memorandum of Understanding has 5 component parts as listed herein:

- Erosion and Sediment Pollution Control
- Agricultural Security Areas
- Municipal Separate Storm Sewer Systems
- General Conservation, Wise Use and Proper Management of our Natural Resources
- West Nile Virus Control Program

EROSION AND SEDIMENT POLLUTION CONTROL

Purpose: Erosion and the resulting deposition of sediment in our waterways is the primary pollutant by volume of our streams. Minimizing erosion and sediment pollution of our streams requires initiatives at the state, county and local municipal levels of government. The purpose of this Memorandum of Understanding (MOU) is to serve as a joint commitment to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth, which may result from the conduct of earth disturbance activities. This MOU also serves as a basis for stating the role of each party in appropriately updating and administering appropriate Ordinances of the municipality in relation to Erosion and Sediment Pollution Control.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

1. RESOURCES, MATERIALS AND DOCUMENTS
 - A. Provide to the Municipality a schedule of plan review fees and sufficient quantities of all necessary educational and other forms. The District will promptly notify the municipality of any change in the plan review fee schedule and provide updated forms and educational materials in a timely manner.
 - B. Upon request, provide all applicants with a DEP Erosion and Sediment Pollution Control Program Manual, National Pollutant Discharge Elimination System (NPDES) permit applications, and related forms, worksheets, checklists and all other forms and documents necessary to successfully prepare an ESPC plan and/or NPDES permit application for discharge of stormwater from construction activities.
 - C. Provide the municipality with a year end summary of NPDES and Erosion and Sediment Pollution Control activities within the municipality. The summary is intended to inform the municipality of District activities and document District activities for municipal MS4 permit requirements.
 - D. Serve as a repository for all ESPC plans, permit applications, plan and permit reviews, complaints, inspection reports, correspondence and other materials and documents concerning the conduct of earth disturbance activities permitted under the municipal ordinance. All such information shall be contained in a dedicated filing system, which shall be available for inspection by municipal officials at any time.
 - E. The District will maintain information and materials on its website related to NPDES permitting and the ESPC program. Municipalities may provide links to the District website from municipal websites. This activity provides additional outreach and satisfies relevant MS4 requirements.
2. PLAN REVIEWS AND PERMITTING
 - A. Receive all applications and plans required by NPDES permitting regulations and complete administrative and technical reviews within time frames established by DEP.
 - B. Receive all ESPC plan, required by municipal ordinance or submitted voluntarily, and complete reviews of the plans within time frames established by the District.
3. INSPECTIONS
 - A. The District will inspect earth disturbance activities to ensure that the approval, implementation and maintenance of the ESPC plan and ESPC practices are in compliance with the NPDES program and Chapter 102 regulations.
 - B. Inspections will be performed:
 1. At a minimum, in compliance with DEP inspection schedules for permitted projects
 2. At the request of the municipality

4. In response to a complaint from the municipality or the public
 4. Routinely, as time may allow
4. NOTIFICATIONS
 - A. Within 10 calendar days of completion the District will forward to the municipality and applicant or responsible party:
 1. Notice of NPDES permit decisions including permit and plan approvals and renewals, deficiency letters, denials and withdrawals.
 2. Notice of ESPC plan decisions where NPDES permits are not required including approvals and deficiency letters
 3. Inspection reports resulting from complaints investigations and other inspections
5. MUNICIPAL ASSISTANCE
 - A. The District will assist the municipality with environmental problems, permit applications and resource management issues within the scope of the District's role under the NPDES and Chapter 102 program. The District will enlist assistance from cooperating agencies where appropriate.
 - B. The District will provide an invitation to the municipality to all appropriate educational events.
 - C. At the request of the municipality, the District will review appropriate sections of municipal stormwater management and subdivision and land development ordinances and make recommendations for consistency with current Chapter 102 regulations and NPDES permit requirements.
6. MEETINGS
 - A. The District will invite the municipality to all scheduled pre-application meetings. Where the District is not the entity organizing the meeting, the District will recommend to the meeting organizer that the municipality be invited. Attendance and choice of representative is at the discretion of the municipality.
 - B. District staff, at the request of the municipality, will meet with municipal representatives to provide information or to discuss issues related to NPDES permitting and Chapter 102 regulations.
 - C. District staff, where appropriate, will notify the municipality of any site meetings related to inspections, violations or complaints and invite the municipality to attend these meetings.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall:

1. RESOURCES AND INFORMATION
 - A. Inform those involved with earth disturbance activities of any municipal Erosion and Sediment Pollution Control and NPDES permitting Ordinance requirements.
 - B. Retain a sufficient quantity of the application form for ESPC plans and issue such information to all proposed earth disturbance projects that require review and approval in accordance with the provisions of the municipal ordinance. The municipality shall provide instructions as necessary to have the plans submitted to the Dauphin County Conservation District.
 - C. Distribute fact sheets and other materials provided by the District to all applicants for building permits and subdivision or land development approval.
 - D. Retain all correspondence from the District including copies of inspection reports, permit authorizations, denials and withdrawals, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 permit documentation or other municipal purposes.
2. NOTICE AND REFERRAL TO THE DISTRICT
 - A. Forward all third party complaints concerning earth disturbance activities to the District.
 - B. Forward all questions related to the preparation of ESPC plans and NPDES permit applications to the District
 - C. Notify the District of the receipt of a building permit application involving earth disturbance of one acre or more within five working days of receipt.
3. MUNICIPAL APPROVALS AND ACTIONS
 - A. Before issuing any permits or approvals, with the exception of local stormwater approvals, the municipality will require evidence of an issued Individual NPDES permit, authorized General NPDES permit or approved ESPC permit if required, or an approved ESPC plan where municipal regulations require an approved ESPC plan where NPDES or ESPC permits are not required.
 - B. Where violations of Chapter 102 or NPDES permitting regulations are discovered, the municipality will cooperate with the District to document and resolve the violations. Cooperation may entail providing access or copies of approved subdivision or land development plans, issued permits, review comments, revocation of municipal permits and other reasonable measures legally and practically available to the municipality.
 - C. Encourage the preservation and responsible use of all of our natural resources.

AGRICULTURAL SECURITY AREAS (ASAs) AND FARMLAND PRESERVATION

Purpose: To preserve the agricultural resources of Dauphin County and the security of land use for the agricultural community, proper administration of the Agricultural Area Security Law (Act 43, as amended) is essential. Proper and efficient implementation of this law is also necessary to protect the integrity of Agricultural Conservation Easements purchased in Dauphin County through the Dauphin County Agricultural Land Preservation Program.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District (acting on its own behalf and also on behalf of the Dauphin County Agricultural Land Preservation Board) shall, within the limits of its capabilities and available resources:

- A. Serve as a resource for local municipalities by providing guidance and information related to the establishment, additions to and review of ASAs.
- B. Conduct periodic workshops for municipal education related to ASAs, procedures and regulations.
- C. Attend municipal workshops and meetings, if requested by municipal officials, to present information on the Agricultural Area Security Law, ASAs and the Agricultural Conservation Easement Purchase Program.
- D. Furnish the municipality with a "Notification of Agricultural Conservation Easement Purchase" for each easement purchased through the county program in the municipality.
- E. Review proposed subdivisions or land development plans and activities subject to building permits for land within the municipality subject to a conservation easement purchased through the county program for compliance with the Deed of Easement and the county program.
- F. Provide the municipality with a reasonable quantity of related resource materials at the request of the municipality.

Municipal Responsibilities: In carrying out the intent of this memorandum, within the limits of its capabilities and available resources, the municipality shall:

- A. Forward to the District copies of recorded documents verifying new enrollments in the municipality's ASA. Such documents shall include the recorded resolution approving the enrollment, the recorded landowner information (Name, Signature, Address, Tax Parcel and Acreage) and the recording documentation page.
- B. Forward to the District copies of recorded documents verifying the complete enrollment of the ASA subsequent to all seven year reviews. Such documents shall include the recorded resolution, the recorded landowner information (Name, Signature, Address, Tax Parcel and Acreage) and the recording documentation page.
- C. Inform the District whenever a building permit is applied for, or when subdivision or land development is proposed for any land within the municipality subject to an Agricultural Conservation Easement purchased through the county program.
- D. Require a letter from the District, acting on behalf of the Dauphin County Agricultural Land Preservation Board, stating that the proposed construction, subdivision or land development is in compliance with the Deed of Easement and the county program prior to issuing building permits or approving subdivisions or land development.
- E. Maintain a file containing the Notifications of Agricultural Conservation Easement Purchase that are forwarded to the municipality.

GENERAL CONSERVATION, WISE USE AND PROPER MANAGEMENT OF OUR NATURAL RESOURCES

Purpose: The working relationships between the forty municipal governments within Dauphin County and the Dauphin County Conservation District (District) are strong. Both the municipalities and the District agree that it is highly desirable to conserve, maintain, restore, use and properly manage our natural resources while being sensitive to the need for economic development, infrastructure improvement and the needs of our citizens. Identifying and better understanding the inter-relationships between natural resource issues of interest to the District and the local land use and management decisions made by the municipalities is critical. This memorandum of understanding that outlines general areas of cooperation between both parties is mutually endorsed.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

- A. Help to keep all municipal officials informed of the relationship of land use decisions and water quality and quantity issues. The District will share with the municipalities the information collected in their stream monitoring program and offer educational materials, workshops and field trips relating to water issues.
- B. Keep the municipal officials informed and involved in studies, mitigation projects and programs that the District is administering within this municipality.
- C. Provide technical assistance to the municipality as ordinances relating to natural resource concerns are updated, i.e. stormwater management, riparian buffers, low impact design standards, floodplains, groundwater recharge, agricultural issues and other natural resource issues.
- D. Facilitate Pennsylvania's Act 167 Stormwater Management Act watershed stormwater management studies.
- E. Invite the municipality to participate in the development of the District long range plans as they relate to the municipal issues.
- F. Assist the municipality with environmental issues and permit applications that fall within the District's area of expertise. The District will enlist the services of cooperating agencies when necessary.
- G. Provide the municipality with administrative and technical training opportunities and points of contact for District programs.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Provide the District with current point of contact within the municipality for environmental issues. Provide updates as needed.
- B. Inform the District of natural resource issues especially those that are water related and concerns except individual stormwater problems.
- C. Implement and administer appropriate stormwater management ordinances base on approved watershed stormwater plans developed in accordance with Act 167 Stormwater Management Act guidelines. (Note: The District does not have the authority to adopt or enforce stormwater management ordinances; this is a local government function.)
- D. Afford the District the opportunity to review and comment on ordinances or proposed ordinance updates that impact on our natural resources.

E. Meet with the District to review environmental impacts of planned municipal activities as they relate to District programs.

F. Cooperate with the District on studies, pilot projects or surveys related to natural resources conservation within the municipality.

G. Provide the District with the date of regularly scheduled municipal meetings and invite the District to participate as appropriate.

It is mutually agreed within the limits of abilities and resources:

- A. Both parties will provide for the mutual sharing of information
- B. Both parties will supply each other with available maps, geographic information system and computer aided drafting files, printed material, photos/slides, video and displays pertaining to pertinent programs
- C. Both parties will work on projects mutually benefiting the District and the municipality.

WEST NILE VIRUS CONTROL PROGRAM

Purpose: The Dauphin County Conservation District's West Nile Virus Control Program is an integrated mosquito management (IMM) program focused on reducing mosquito populations within Dauphin County. The program utilizes education, mosquito surveillance, mosquito breeding habitat elimination and mosquito control to decrease numbers of mosquitoes within Dauphin County to reduce the risk of human acquisition of West Nile Virus. The Dauphin County IMM Program is based on sound entomological data collection to provide temporal and biological data. This data enables us to implement a mosquito abatement program relying upon habitat elimination and larval mosquito control as a foundation for the reduction of WNV levels within the county.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

- A. Provide educational outreach that will be focused at urban and agricultural communities to facilitate the elimination of mosquito breeding habitat in these areas. These programs will use both literature pertaining to WNV and basic mosquito biology, and there will be informational presentations aimed at these same geographical areas conveying information pertaining to Mosquito biology/behavior and WNV epidemiology.
- B. Aggressively execute larval mosquito control using a variety of control products. The product to be used will be site and mosquito species specific, and is dependent upon the specific habitat type and the entomological data for the site. There will be a continuous larviciding program aimed at any mosquito breeding habitats including catch basins in the urban areas of Dauphin County. Primarily, the biological larvicides Bacillus thuringiensis var. israelensis and Bacillus sphaericus will be used to reduce mosquito population levels. We will also utilize additional products such as Methoprene and Monomolecular Films when habitat type or biological data indicate that these products would be more efficacious.
- C. Conduct adult and larval mosquito surveillance at various locations in the county based on previous seasons' data and the elucidation of new mosquito breeding locations and citizen complaint calls. We will rely upon both carbon dioxide baited traps as well as gravid traps to monitor local adult mosquito populations. The type of trap used will be dictated by habitat type and historical and contemporary larval taxonomic data. These traps will be placed at known mosquito breeding locations as well as in areas of high population densities. We will increase our number of traps in some areas as epidemiological data confirms WNV activity in particular areas.
- D. Perform adult mosquito control when epidemiological and entomological data show that adult mosquito and virus levels are high enough to put the local human population at significant risk of WNV infection.
- E. Support enforcement of municipal codes addressing mosquito breeding habitats.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Adopt and enforce municipal ordinances which address vector/mosquito breeding habitats.
- B. Provide assistance for the notification of the public of spray events scheduled in the municipality.
- C. Provide for the publication of WNV/mosquito news and educational articles in municipal publications.
- D. Provide for the assistance of the local municipal police for any adult mosquito control events.

NPDES MUNICIPAL SEPARATE STORM SEWER SYSTEMS

Purpose: Many municipalities in Dauphin County and the County itself are subject to NPDES permit requirements for Municipal Separate Storm Sewer Systems (MS4). The purpose of this agreement is to coordinate, where possible and desirable, the activities of the municipalities and the county associated with MS4 permit requirements. While not all requirements lend themselves to coordination, several of the requirements are such that coordination will result in decreased compliance cost and greater efficiency for both the municipality and county. The following details the municipal and District responsibilities by Minimum Control Measure (MCM).

MCM 1 – PUBLIC EDUCATION AND OUTREACH

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Develop and Coordinate with all regulated municipalities the placement of an educational newspaper advertisement once per permit year.
- B. Distribute educational posters to all schools within the regulated municipalities once per permit year.
- C. Make educational posters available, at cost, to regulated municipalities for distribution to target audiences other than schools.
- D. Distribute an educational publication to developers in Dauphin County once per permit year.
- E. Maintain on the District website, information related to stormwater regulations, educational materials and resources. It is recommended that Municipalities provide a link from the municipal website, if available, to the District website.
- F. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of the above activities and any other educational activities conducted by the District that would be applicable for MS4 permit compliance. Where possible, copies of the educational materials, the dates distributed and a summary or list of those the material was distributed to will be included in the summary.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Annually, no later than 30 days prior to the end of the permit year, provide a summary to the District of the use and or distribution of educational posters.
- B. Where practical and applicable, notify the District at least 15 calendar days in advance of municipal public outreach events where the District could play a role in providing public outreach.

MCM 2 – PUBLIC PARTICIPATION

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Notify regulated municipalities of public participation events, as appropriate 30 days prior to the event.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Notify the District of public participation events, as appropriate, at least 30 days prior to the event.

MCM 4 – CONSTRUCTION SITE STORMWATER MANAGEMENT

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of District activities conducted in the municipality. The summary will include:
 - 1. The number of sites inspected and the number of inspections conducted
 - 2. The number of complaints received and the number of inspections conducted in response to complaints
 - 3. The number of sites referred to DEP for enforcement
 - 4. The number of permits issued

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. The municipality will meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Retain all correspondence from the District including copies of inspection reports, permit authorizations, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 documentation purposes.

GENERAL MS4

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Serve as a resource to regulated municipalities for general MS4 program information
- B. Provide copies of resource, regulatory, and educational materials. Limited amounts of such copies will be provided at no charge. For larger quantities, the District will provide copies in a format, where practical, suitable for producing copies or at cost.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Provide copies of ordinances related to stormwater management, erosion and sediment control and illicit discharges. The municipality will provide the district with copies of any revised ordinances within 30 days of adoption.

EXECUTION

This Memorandum of Understanding shall become effective only after it has been adopted by vote of the governing bodies of both parties. Signatures must be those of a member of the governing body authorized to sign for the governing body.

This Memorandum of Understanding may be terminated by either party for any reason. Termination of this Memorandum of Understanding must be by certified mail. Termination shall become effective 30 days after receipt of the notice of termination.

This Memorandum of Understanding shall be reviewed periodically by either or both parties and may be amended by mutual consent of both parties.

With the execution of this Memorandum of Understanding any previous Memorandum of Understandings between the Municipality and the District shall be invalid.

DAUPHIN COUNTY CONSERVATION DISTRICT

By: Ronald E. Kopp
Title: CHAIRMAN DCSD BOARD OF DIRECTORS
Date: 4-3-14

TOWNSHIP OF LONDONDERRY

By: [Signature]
Title: Supervisor
Date: _____

15-Londonderry Township

Plan Submissions		8
Plan Reviews		14
NPDES Permits Issued		3
Routine Inspections (See Attached)		34
Complaints by Site	Number	Inspections
Enforcement Referrals		

DCCD ESPC INSPECTION SUMMARY 2022

Londonderry Township Inspections

Municipality	Project Name	Plan No	Date of Inspection	Inspectors Initials
Londonderry Township	Vision Ventures Development	15-20-02	1/26/2022	TBK
Londonderry Township	Core5 at School Heights	15-20-01	2/16/2022	TBK
Londonderry Township	3100 Schoolhouse Rd	15-17-04	2/16/2022	AMH
Londonderry Township	Rutter Farm Store #20	15-13-04	3/2/2022	CAH
Londonderry Township	Core5 at Lytle Farms	15-20-04	4/28/2022	TBK
Londonderry Township	Core5 at School Heights	15-20-01	5/25/2022	TBK
Londonderry Township	Core5 at Londonderry	15-20-05	5/25/2022	TBK
Londonderry Township	Vision Ventures Development	15-20-02	6/28/2022	TBK
Londonderry Township	Brisner Farm	15-22-02	7/12/2022	SSF
Londonderry Township	Kopp Waste Site	15-14-06	7/15/2022	ARW
Londonderry Township	Sauder Subdivision	15-08-01	7/15/2022	ARW
Londonderry Township	2505 Brinser Rd	15-02-05	7/15/2022	ARW
Londonderry Township	Crawford Timber Harvest	15-15-01	7/15/2022	ARW
Londonderry Township	Jennings ETAL Timber Harvest	15-15-02	7/15/2022	ARW
Londonderry Township	2505 Brinser Rd	15-07-01	7/15/2022	ARW
Londonderry Township	Wood Timber Harvest	15-15-03	7/15/2022	ARW
Londonderry Township	Houser Timber Harvest	15-17-01	7/15/2022	ARW
Londonderry Township	Leininger Timber Harvest	15-17-02	7/15/2022	ARW
Londonderry Township	Kopp Waste Site #2	15-14-08	7/15/2022	ARW
Londonderry Township	Core5 at School Heights	15-20-01	7/21/2022	TBK
Londonderry Township	Core5 at Lytle Farms	15-20-04	7/21/2022	TBK
Londonderry Township	Brisner Farm	15-22-02	7/27/2022	SSF
Londonderry Township	Vision Ventures Development	15-20-02	9/6/2022	TBK
Londonderry Township	Core5 at School Heights	15-20-01	9/29/2022	TBK
Londonderry Township	Core5 at Londonderry	15-20-05	9/29/2022	TBK
Londonderry Township	Beagle Rd Pipeline Relocation - GP5	15-15-06	9/30/2022	MPW
Londonderry Township	3090 Brinser Rd	15-12-01	9/30/2022	MPW
Londonderry Township	Zion Road GP Review	15-19-04	9/30/2022	MPW
Londonderry Township	Matincheck Residence	15-17-03	10/27/2022	ARW
Londonderry Township	Vision Ventures Development	15-20-02	11/2/2022	TBK
Londonderry Township	Core5 at Lytle Farms	15-20-04	11/7/2022	TBK
Londonderry Township	Brisner Farm	15-22-02	11/7/2022	SSF
Londonderry Township	Core5 at Lytle Farms	15-20-04	12/9/2022	TBK
Londonderry Township	Chapelshire Subdivision	15-04-02	12/14/2022	TBK

Londonderry Township

MCM #5: Post-Construction Storm Water Management in New Development/Redevelopment Minimum Measures

- **Objective1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.
- **Objective2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.
- **Objective3:** 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.

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a stormwater management program in order to meet the requirements of the permit and ensure that controls are in place to prevent or minimize water quality impacts.

Minimum Measure Objective: The purpose of post-construction stormwater management within the Township is to minimize the impacts of construction activities on the watershed. The Township will implement these measures with the help of the Township Engineer, Township staff, and the County Conservation District. A schedule for inspection of installed stormwater BMPs will be set up, and a plan for long term maintenance will be established.

- **Objective1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.
 - Londonderry Township enacted ordinance Municipal Code Chapter 26 in 2021.
- **Objective2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.
 - Low Impact Development (LID) is a technique to reduce stormwater, and is one of the best construction practices available on the market. The Township will distribute education material on LID to all permit applicants. Specifically, materials about designs

that reduce impervious surface area and impervious connections to the Township's MS4. LID can be a very effective technique in reducing stormwater and increasing infiltration.

- **Accountability:** It is important to continuously re-evaluate the program to ensure that the best possible solutions and practices are being researched and presented to builders, contractors, and other permit applicants. The best management practice is to educate, inform, assist, and then enforce if necessary.
- **Objective3:** 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.
 - The Township holds a list of stormwater BMPs installed on public and private property from the beginning of their permit. In January of the current permit term, the Township will send notification letters to each BMP land owner explaining that an inspection will be conducted in the spring. This letter will also provide information about the type of BMP they currently have on their property. In April of the current permit term, an inspection will be conducted by MS4 staff and the Codes and Zoning Officer. Should the inspection require follow-up, staff will follow the Privately-Owned BMP Inspection Protocol.
 - **Accountability:** Stormwater BMPs can be an effective tool in preventing erosion, slowing down water velocity, reducing sediment, and improving water quality. However, these stormwater BMPs must be properly maintained in working order to work as they were designed. This is precisely why a maintenance schedule should be established and followed. Encouraging self-compliance and education will be the focus of the Township office.
 - **Measurable Goal:** The Public Works department will conduct at least two inspections of each structural control per year and conduct regular maintenance as prescribed for each type of practice. Records will be kept. Most stormwater controls have been identified and numbered, therefore Township staff can track frequency and location of inspections.
 - **Justification:** The current inspection and maintenance schedule will be developed to maximize efficiency and minimize labor requirements. Easy to use spreadsheets will be developed including all necessary information. This reporting system can also be expanded to include other types of MS4 maintenance, including street sweeping, catch basin cleaning, storm drain flushing, etc.

Reviewed 3/13/2022.

Revised 1/8/2021.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 6/10/2019.

Appendix F MCM #5 (Figure 2)

Creating a GIS database to encourage self-reporting in next permit cycle.

Tax Parcel	Instrument Number	Permit Number	Year Installed	Permit Type	Plan Name	NPDES Number	EMP ID	EMP Type	Res/Com	Property Address	Property Owner/Point of Contact	Name	Email	Phone #	Mailing Address	OBM	Date OBM Recorded	Maintenance Required	Plan	Geo Reference
			2003				14	Below Grade Denonon Infiltration Basin		2200 Vine Street Middletown PA 17057	Capital Self Storage	Vince	ttaloud@comcast.net	717-625-9328		No known OBM agreement		Inspected yearly for sediment build up, erosion, vegetation conditions, etc. Clean-out debris and sediment		Responsible for scale 1-4, not 5 (pern doc)
			2003				15	Denonon Basin		2344 E. Hamburg PA Middletown PA 17057	Dr. Glen Book Lindsbery Animal Hospital	Glen & Lisa Book	gbook@lindsbery.com	717-445-5863	2390 Oldenbury Rd Elizabethtown PA 17032	No known OBM agreement		NA		
			2003				16	Denonon Basin		505 Elyshannon Dr Elizabethtown PA 17032	Stephen Najarian		717-475-1938		No known OBM agreement		NA			
			2004				17	Denonon Basin		4488 S. BURG PA 17032	Lindsbery Self Storage		717-440-1902	P.O. Box 677 Mogentown PA 17043	No known OBM agreement		NA			
			2004				18	Denonon Basin		4319 E. Hamburg PA Elizabethtown PA 17032	Walter J. Hesser	Walt Hesser	WaltHesser@aol.com	717-475-9939		No known OBM agreement		NA		
			2005				19	Denonon Basin		361 D. Dodson Rd Elizabethtown PA 17032	Bright Hope Church					No known OBM agreement		NA		
			2005				20	Scale		4100 E. Hamburg PA Middletown PA 17057		Steve and Joe Zurek	stz@stz.com	717-300-9568	4100 E. Hamburg PA Middletown PA 17057	No known OBM agreement		NA		
			2006				21	Denonon Basin	Commercial	34 Dogwood Ln Middletown PA 17057	Analytical Lab Services				6000000 REALTY LP PO BOX 1423 CARLEISLE PA 17013	No known OBM agreement		NA	GIS SURVEY may be added 3/1 instead of 2/1	
34-038-017			2010				23	Denonon Basin & 3 Scales	Commercial	3950 E. Hamburg PA Middletown PA 17057	Friends in Action International	Andy Barchett	andbarchett@aol.com	717-460-0208	P.O. Box 323 Elizabethtown PA 17032	Clean area of trash and debris		Once a month and after large rainfall events		
			2011				24	Infiltration Basin	Residential	4185 Heather Rd Elizabethtown PA 17032	Albert, Joseph & Deanna		717-313-659		Remove trash, accumulated sediment, and debris		After any storm event			
34-014-118			2011				25	Infiltration Basin	Residential	528 Thistle Rd Elizabethtown PA 17032	Goslin, Stephanie & Justin					Remove trash, accumulated sediment, and debris		After any storm event	Hand copy of	
			2012				27	Infiltration Basin	Residential	2635 Bivens Rd Middletown PA 17057	Dennis Schmick		(717) 344-1955			Clean area of trash and debris		Once a month and after large rainfall events		
			2013				28	Infiltration Trench	Commercial	34 Dogwood Ln Middletown PA 17057	Analytical Lab Services				6000000 REALTY LP PO BOX 1423 CARLEISLE PA 17013	Remove trash, accumulated sediment, and debris		Twice a year and after rainfall events		
34-001-001	2-046-10		2014				29	Denonon Basin and Denonon Basin with underground infiltration facility	Commercial	3555 Vine St Middletown PA 17057	Love's Travel Stop and Country Stores Inc.				10661N Pennsylvania Ave Oklahoma City, Ok 73120	Remove trash, accumulated sediment, and debris		twice a year and after rainfall events		
34-001-094			2014				30	Underground Denonon Basin 3 Total Infiltration Trench	Commercial	3801 Vine St Middletown PA 17057	MSG Realty Inc.	Adam		717-775-9908	2100 N George St York PA 17404	Remove trash, accumulated sediment, and debris		Quarterly and after major storm events, inspection by qualified professional annually and after 10 year storm events		
34-013-043			2014				31	Basin and Stone Storage Bed		538 Schoolhouse Rd Middletown PA 17057	538 Schoolhouse Rd Middletown PA 17057				193 Cedar St Middletown PA 17057	remove trash, accumulated sediment, and debris		regularly throughout the year and after rainfall greater than one inch		
34-020-089	2-024-10		2014				32	Infiltration Trench & ACS Drain	Residential	5095 Beagle Rd Elizabethtown PA 17032	Zachery Carter					Clean area of trash and debris		5/20/2021	na	
34-011-072	2-036-10		2015				33	Infiltration Trench		2633 E. Hamburg PA Middletown PA 17057	Gabo, Steve		717-344-1205		Remove trash, accumulated sediment, and debris		After any storm event			
34-011-332			2015				34	Plan Garden	Residential	2022 Folsom Rd Middletown PA 17057	Hayds, Michelle & William	Michelle Hayds	mm2283@comcast.com	717-350-0294		Remove trash, accumulated sediment, and debris		After any storm event		
34-012-00734-011-157	016		2015				35	Perforated Roof Leaders Directed Towards Foreard Area	Residential	3055 E. Hamburg PA Middletown PA 17057	Loren Bowen					Ensure leaders are maintained and tested areas is not displaced		After any storm event		
																	Inspected yearly for sediment build up, erosion, vegetation conditions, etc. During year of extended drought garden may need		Inspect yearly	

34-005-153	2.019E+10	2015	36	Rain Garden	Residential	301 Elwood Dr Middleton PA 17057	Clayton, Etc.				Inspected yearly for sediment build up, erosion, vegetative conditions, etc. During year of extended drought garden may need watering. Clean out debris and sediment.	Inspect yearly, inspect after every large rain event.		
34-002-209	2.019E+10	2015	37	Rain Garden	Residential	327 Cola Rd Middleton PA 17057	Melinda & Nick Smalley				Inspected yearly for sediment build up, erosion, vegetative conditions, etc. During year of extended drought garden may need watering. Clean out debris and sediment.	Inspect yearly, inspect after every large rain event.		
		2015	38	Infiltration Trench under driveway and 1 open to concrete pad.	Commercial	338 Schoolhouse Rd Middleton PA 17057	Verizon Wireless		4842 Jonestown Rd Suite 203 Harrisburg PA	Remove trash, accumulated sediment, and debris.	Inspect after storm event greater than 1" and twice annually.			
34-011-195	2.019E+10	2016	39	Detention Basin	Commercial	2655 Fostiana Rd Middleton PA 17057	Londonderry Fire Company			Remove trash, accumulated sediment, and debris.	9/19/2016			
34-013-022		2016	40	Detention Basin	Residential	1655 N Decade Rd Elizabethtown PA 17022	Savage, Jesse		717-903-2297	Remove trash, accumulated sediment, and debris.	After any storm event.			
34-005-2017	2.019E+10	2017	41	Infiltration Trench & Series of Infiltration Trenches under Driveway	Residential	336 Cola Rd Middleton PA 17057	Kerry & Darlen Valer			Clean area of trash and debris.	10/11/2017			? No site plan
34-020-072	2.019E+10	2018	42		Residential	5051 Beagle Rd Elizabethtown PA 17022	Ray Kennedy		717-439-3164	Clean area of trash and debris.	Check after any storm event.		see 5001 Beagle subdivision plan	

34-014-119	Needs to be recorded	2021	43		Residential	4200 Bormay Rd Elizabethtown PA 17022	DAVID OBENSTINE	DAVID OBENSTINE			348 N HANDOVER ST ELIZABETH PA 17022	6/10/2021	Inspected for yearly for sediment build up, erosion, vegetative conditions, etc. During year of extended drought garden may need watering.		Still under con
34-017-063	2.019E+10	2019	44	Rain Garden & Infiltration bed	Residential	2060 Felker Road	Timothy Ganes				1441 Maple Ave Elizabethtown PA 17022	6/28/2019	Clean catch basin and check property address?? Where did this come from?? AUBURN AVE HARRISBURG PA 17105		
34-007-123	2.021E+10	2021	45	(Subsurface) Infiltration basin & Infiltration trench	Residential	2485 STENBUCK RD	Michael L Lepold				Property website ? MAPLE AV ELIZABETH PA 17022	3/5/2021	Remove trash and debris. Catch basin to be inspected after rain event.		
34-011-115	2.021E+10	2021	46	Detention Basin	Commercial	2088 E Hershey Pike 400 E HARRISBURG PK MIDDLETOWN	BUCKLAND HOLDING LP ZEAGER BROS INC.	Ernie Miller	emiller@zeager. com	717-295-9507	MARKET ST ELIZABETH PA 17022	3/5/2021			Under Constr
34-025-003	???		47		Commercial										

34-028-025	2.019E+10	2015	50	Detention Basin	Commercial	2912 River Rd 350 Thistle Rd Elizabethtown, PA 17022 USA	MATKHECK ASSOCIATES (Shelby) LLC MANNON, USA M			PO BOX 267 MIDDLETOWN PA 17057	?? Max size if found correct document	7/27/2015			
34-014-117	non-existent	2019	51												See 500 Thistle for whole subdivision plan
34-011-098	2.019E+10	2019	52	Infiltration trench/ Detention basin	commercial	3030 SCHOOHOUSE ROAD MIDDLETOWN, PA 17057	LIVING HOPE CHURCH			2386 SURZEY DR MIDDLETOWN, PA 17057	Inspect 30 days after debris. Long meadow grasses	3/26/2019			
34-011-194			53			1782 FELKER RD	MYERS, MICHAEL, J			3510 PREDMONT ROAD NE 410 ELIZABETH, GA	Plan east to small road	9/7/2021			Under construction
34-011-327 085013 077	2.021E+10	2021	54		commercial	3327 E HARRISBURG PIKE T103	CSL CAT MIDDLETOWN LLC			2780 COMMERCE DR SUITE 100 MIDDLETOWN, PA 17057					
34-026-019	2.021E+10	2021	55			2771 North Market Street	FRPARK 203 LOGISTICS CENTRE LLC			5116 OAK ST PALMYRA, PA 17078	Remove trash and debris. Flow, repairs and rebuild as needed	5/21/2021			
34-007-127	2.021E+10	2021	56	Infiltration basin, Detention basin		2490 STENBUCK RD LS	NICKELVE, NATHAN J			1100 OAK CENTER 4TH FLOOR CAMBRIDGE, IL 60181		10/4/2021			Under construc
34-027-152	201901036	2019	57	Meadow	commercial	LIBERTY LN - NORTH SIDE PART OF THE ISLAND HILLCREST GRDVIEW ELIZABETHTOW N, PA 17022	EVELYN GENERATION COMPANY, LLC					6/28/2019			make sure to visit saw? Also - where is it?
34-025-094	2.019E+10	2018	58	Basin	Residential	101 REAGLE FET ELIZABETHTOW N, PA 17022	SOULICK, R ANTHONY					5/22/2019			
34-020-088		2021	59	Infiltration trench	Residential		WATSON, DAVID L								foundation and storm sewer plan for subdivision under 5
34-011-011			1006			3363 Schoolhouse	ENCORE RENOVATIONS LLC								

Londonderry Township

MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations

- **Objective1:** Complete an Operations and Maintenance (O&M) plan for all municipal operations.
- **Objective2:** Manage maintenance activities, schedules and inspection procedures to reduce the potential for pollutants.
- **Objective3:** Operations training program for Township staff, Public Works, and Golf Course Maintenance

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a stormwater management program in order to meet the requirements of their permit and ensure that controls are in place to prevent or minimize water quality impacts. The Township is able to control its operations, within the context the MS4 permit, by implementing an operations and maintenance plan. This plan will include duties for each member of each department for facilities under control of the Township. In some cases, these operations will be on spreadsheets and checklists to prompt employees of proper procedures. This will also allow management to track movements, and improve efficiency in the future.

Minimum Measure Objective: The purpose of developing the Operations and Maintenance plan is to implement a program that includes training components and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. This program will focus on areas of greatest control by the Township. This includes municipally-owned properties, roads, easements, and vehicle operations. The Township will also provide employee training to prevent and reduce stormwater pollution from activities such as parks and open space maintenance, fleet and building maintenance, and stormwater system maintenance.

- **Objective1:** Complete an Operations and Maintenance (O&M) plan for all municipal operations.
 - The Township will complete the O&M plans for all municipal operations, including operations at the golf course. During April of the current permit year, training will be held on the usage of O&M, general housekeeping, and spreadsheet data entry. Inspection sheets will be collected from public works monthly, and kept in the MS4 office. The plan will include but is not limited to:
 - **Management practices, policies, and procedures to reduce or prevent the discharge of pollutants to the regulated MS4;**
 - **Schedule for maintenance activities, routine activities, and inspection procedures to reduce the potential for pollutants to reach the regulated MS4;**
 - **Implement controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with**

outdoor storage areas, and salt/sand (anti-skid) storage locations and snow disposal areas;

- **Procedures for the proper disposal of waste removed from the Township’s regulated MS4 and municipal operations, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, and other debris**
- **Accountability:** A well-developed Operations and Maintenance plan will establish procedures for municipal activities to reduce their impact on the Township’s MS4. This plan will manage municipal operations to prevent routine action from causing any impact on the MS4. Trainings accompanied by spreadsheets will prompt employees to complete tasks, and management staff can use this data to set budgets and reduce overall impacts to the MS4 in the coming years.
- **Objective2:** Manage maintenance activities, schedules and inspection procedures to reduce the potential for pollutants, including a Spill prevention and control and containment plan (SPCC).
 - During the current permit year, the public works and golf course maintenance facilities will continue to follow the inspection process outlined in the SPCC plan. Public works and golf course staff will inspect all 55-gallon containers and fuel tanks during the first week, every month. Once per quarter, the MS4 Department will evaluate inspection sheets for completeness. The SPCC Plan will be evaluated once per permit cycle. This evaluation is to keep the SPCC plan up to date.
 - **Justification:** Spill prevention plans can serve to prevent significant discharges into the MS4, and provide employees with training on how to properly handle the spill if it does occur. Municipal employees will know how to properly deploy all equipment in a spill kit, and when to contact management and/or emergency services. Employees that are aware and confident in their abilities will be able to make quick and educated decisions that will have the best outcome for the Township’s MS4 and nearby stream health.
- **Objective3:** Operations training program for Township staff, Public Works, and Golf Course Maintenance
 - **Measurable Goal:** During the current permit year, training sessions will be held for the Public Works department, the Golf Course maintenance crew and Township staff. These training sessions will be developed to follow the topics covered in the Operations and Maintenance Plan.
 - General Stormwater and Permit Awareness: Board of Supervisors and Public
 - Illicit discharge detection and elimination and permit awareness: all township staff
 - Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
 - Catch basin and inlet structure cleaning and inspection: Public Works
 - Tracking sheets and Filing System: Public Works and Golf Course Maintenance
 - Pollinator garden, rain garden, and buffer maintenance: MS4 Environmental Department

- Spill kits and spill response: Public Works and Golf Course Maintenance
 - Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
 - Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
 - Salt/De-Icing: Public Works
- **Justification:** Annual training will ensure every employee is confident in his/her ability to complete their job description in a way that is not harmful to the MS4. They will be knowledgeable about current NPDES permit requirements, and be able to answer simple questions if prompted by DEP or EPA during an inspection. Proper training also ensures that employees maintain safe working areas and do not put themselves in situations that are hazardous to their health, the environment, and/or property. The United States Golf Association (USGA) has developed best management practices for golf courses to reduce water usage and increase infiltration. Using these ideas along with others, the Township will develop best management practices that address water quality, environmental health, and economic benefits, specifically associated with golf course management.

Reviewed 3/15/2022.

Revised 1/8/2021.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 6/10/2019.

Inventory of Londonderry Facilities and Activities

Facility/Activity	Storm Sewer System Impact	Discharges To	Located in Urbanized Area (Yes or No)	O&M Responsibilities
Public Works Yard	Inlets, piping, basin	Susquehanna River Watershed	No	Managing oil, cleaning, equipment fueling, maintaining vehicle wash water, maintaining salt shed

Golf Course Maintenance Building	Inlets, piping, basin	Susquehanna River Watershed	No	Managing oil, cleaning, equipment fueling, maintaining vehicle wash water, pesticides and herbicides
Public Works Maintenance Building	Inlets, piping, basin	Susquehanna River Watershed	No	Managing oil, cleaning, equipment fueling, maintaining vehicle wash water
Streets (see Exhibit 1)	Inlets, catch basins, swales	(see Exhibit 1)	Yes	Sweeping, cleaning, inspection and maintenance
Stormwater (SW) Conveyance	Pipes, swales, outfalls	Susquehanna River, Swatara Creek, and Conewago Creek watersheds	Yes	Cleaning, inspection and maintenance
Municipal Building	Inlets, rain garden, rain barrels	Conewago Creek (East) Watershed	No	Sweeping, cleaning, weed control, watering, landscaping, rain barrel maintenance
Braeburn Park	Inlets	Conewago Creek (East) Watershed	No	Sweeping, cleaning, weed control, mowing
Sunset Golf Course	Inlets, piping, irrigation pond	Susquehanna River Watershed	No	Oil management, fueling, vehicle wash water, pesticides and herbicides
HMGP Properties/Swatara Creek Road	Swales, riparian buffer	Swatara Creek Watershed	No	Weed control, watering, landscaping, mowing
Conewago Creek Floodplain Restoration	Swales, riparian buffer	Conewago Creek Watershed	No	Weed Control, Sediment Clean Out

Exhibit 1 – Urbanized Area Street Names and Drainage Areas

Iron Run Urbanized Area

- Sand Hill Road – Swatara Creek Watershed
- Woodcrest Drive – Swatara Creek Watershed
- Pasture Drive – Swatara Creek Watershed
- Walnut Lane – Swatara Creek Watershed
- Steinruck Road – Swatara Creek Watershed
- Roundtop Road – Swatara Creek Watershed
- Schoolhouse Road – Swatara Creek Watershed

283 Corridor Urbanized Area

- Swatara Creek Road – Swatara Creek Watershed
- Lauffer Road – Swatara Creek Watershed
- Iron Mine Road – Swatara Creek Watershed
- Houser Road – Swatara Creek Watershed
- Mill Road – Swatara Creek Watershed
- Toll house Road – Swatara Creek Watershed
- Donna Drive – Conewago Creek (East) Watershed
- Krepps Road – Conewago Creek (East) Watershed
- Alwine Road – Conewago Creek (East) Watershed

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- Foxianna Road – Swatara Creek Watershed and Conewago Creek (East) Watershed
- Carol Circle – Swatara Creek Watershed
- Stephania Drive – Swatara Creek Watershed
- Felker Road – Swatara Creek Watershed and Conewago Creek (East) Watershed
- Roundtop Road – Swatara Creek Watershed
- Harrisburg Pike (S-R 230) – between Gevers Church Road and Toll House Road – Swatara Creek Watershed; between Toll House Road and School House – Swatara Creek Watershed and Conewago Creek (East) Watershed

Susquehanna River Urbanized Area

- Hollandale Street – Susquehanna River Watershed
- Water Street – Susquehanna River Watershed
- Laurel Drive – Susquehanna River Watershed
- Meadow Lane – Susquehanna River Watershed
- Orchard Lane – Susquehanna River Watershed
- Peck Road – Susquehanna River Watershed
- River Road – Susquehanna River Watershed
- Red Hill Plaza – Susquehanna River Watershed

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Conewago Creek Urbanized Area



- Lark Street – Conewago Creek (East) Watershed
- Rose Avenue – Conewago Creek (East) Watershed
- Park Avenue – Conewago Creek (East) Watershed
- Rock Street – Conewago Creek (East) Watershed
- Birch Street – Conewago Creek (East) Watershed
- Tulip Lane – Conewago Creek (East) Watershed
- Garden Avenue – Conewago Creek (East) Watershed
- Deodate Road – Conewago Creek (East) Watershed
- Hertzler Road – Conewago Creek (East) Watershed
- Roslyn Road – Conewago Creek (East) Watershed
- Market Street – Conewago Creek (East) Watershed
- Hoffer Road – Conewago Creek (East) Watershed
- Florence Drive – Conewago Creek (East) Watershed
- Michael Street – Conewago Creek (East) Watershed
- Erle Avenue – Conewago Creek (East) Watershed
- Charles Avenue – Conewago Creek (East) Watershed
- Nelson Drive – Conewago Creek (East) Watershed
- Letti Drive – Conewago Creek (East) Watershed
- Mark Street – Conewago Creek (East) Watershed
- Dean Street – Conewago Creek (East) Watershed
- Joan Street – Conewago Creek (East) Watershed
- Liberty Lane – Conewago Creek (East) Watershed

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- Ridge Road – Conewago Creek (East) Watershed
- Rim Road – Conewago Creek (East) Watershed

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Appendix G MCM#6 (Figure 1)

MCM #6: BMP #3 - Employee Training		
	MUNICIPAL EMPLOYEE MS4 TRAINING	
Attendee	Description of Training	Trainer
Monique Dykman	Master Well Owner Network	PSU Extension

11/15/22, 3:58 PM

Penn State Extension Online Course Certificate | Penn State University



We believe all people should have access to science-based education.



Brent Hales
DIRECTOR
Penn State Extension



Richard Roush
DEAN
College of Agricultural Sciences

PENN STATE EXTENSION | ONLINE COURSE CERTIFICATE

This certifies that

MONIQUE DYKMAN

has successfully completed



Master Well Owners Network: October 2022

Course length: 6 hours

Certificate ID number: 83dcbf649f0045ba8e686b5996c82731
Date issued: November 14, 2022

Verify the authenticity of this certificate at: <https://learn.extension.psu.edu/certificates/user/25637/course/course-v1:PennStateExtension+OLC-1154+202210>

Appendix G MCM #6 (Figure 2)

MCM #6: BMP #3 - Employee Training- In House			
		MUNICIPAL EMPLOYEE MS4 TRAINING	
			
Date	Attendees	Description of Training	Trainer
10/3/2022	BOS See List	Yearly BOS report	Monique Dykman
9/3/2022	Office Staff Training	Yearly Office Staff Training	Monique Dykman
6/22/2022	Public Works See List	Public Works and Golf Course Training	Monique Dykman

BOS Training:

MS-4 Environmental Department – Monique Dykman

Ms. Dykman presented the progress report for the Environmental MS4 Department for October.

- Submitted Annual Report 2021-2022.
- Hosted Rain Barrel Workshop September 20th at 6pm, at Sunset Club House.
- Planning Tree-via (trivia) event October 20th at Sunset Club House.
- 2022 MS4 Board Training... Jeopardy!
 - Note: The presentation was presented in the Jeopardy layout, answers were not be in question form, dollar value represented difficulty of question, no prizes (other than MS4 pride)

In addition, Ms. Dykman apprised the Board that the Township was awarded a grant in the amount of \$500,000 from NIFWIF towards future stages of the Conewago Creek Restoration project.

Londonderry Township Board of Supervisors
REGULAR MEETING MINUTES
LONDONDERRY TOWNSHIP OFFICE – MEETING ROOM
 October 3, 2022
 7:00 p.m.

<http://www.facebook.com/londonderrytownship>
www.londonderrypa.org

As a courtesy to everyone, please turn off all cell phones and/or pagers, or adjust these or similar devices so that others cannot hear them. Calls received during a meeting, if answered, should be taken outside of the meeting room. Thank you.

Call to Order: Board Chair, Ron Kopp called the Board of Supervisors Meeting to order at 7:00 p.m

Salute the Flag

Attendance / Members Present: Ron Kopp, Chair
 Anna Dale, Vice Chair
 Mike Geyer, Member
 Mel Hershey, Member
 Bart Shellenhamer, Member

Present: Steve Letavic, Township Manager
 Jeff Burkhart, Code/Zoning Officer
 Monique Dykman, MS-4 Specialist
 Andrew Kenworthy, Engineer
 Mark Stewart, Solicitor

Absent: Les Gilbert, EMS Director
 Andy Brandt, Public Works Director
 Sam Risteff, Golf Course Manager

Office Staff

Public Meeting Sign-In Sheet for all Attendees

Meeting Purpose:

Board of Supervisors __, Planning __, Zoning __, Other 9/13/22

Office MS4 Training

DATE: _____

last	first	num	street	phone	e-mail
Blasser	Dee				
Hess	Janie				
Karlouska	Edward				
Reh	Fran				

Appendix G MCM #6 (Figure 3)

Inspection Record

Municipality: Londonderry Township Record: _____

Permit #: N/A

Inspection Date: 10/3/22 Inspector: Monique

General Information

Weather Condition(s) <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy	Precipitation <input type="checkbox"/> Misty <input type="checkbox"/> Light Rain <input type="checkbox"/> Rain <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Snow <input type="checkbox"/> Hail <input type="checkbox"/> Other: _____	Inspection Type <u>Regular</u> <input type="checkbox"/> Pre-Rain Event <input type="checkbox"/> During a Rain Event <input type="checkbox"/> Post Rain Event <input type="checkbox"/> Other: _____
Wind Condition <input type="checkbox"/> None <input checked="" type="checkbox"/> 5 to 10 mph <input type="checkbox"/> Greater than 10 mph	Other of Note	

Inspection of BMPs

BMP	Facility or Activity	Properly Functioning	Maintenance or Repairs	Photos	Follow-Up Required
<u>Buffer</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes: <u>Looks good!</u>					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Rain</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Pollinator</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

LWC Good Housekeeping Guidance and BMP Manual

BMP	Activity	Functioning	Repairs	Photos	Follow-Up Required
	<input type="checkbox"/> Facility <input type="checkbox"/> Activity	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input type="checkbox"/> No
BMP	Facility or Activity	Properly Functioning	Maintenance or Repairs	Photos	Follow-Up Required
	<input type="checkbox"/> Facility <input type="checkbox"/> Activity	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input type="checkbox"/> No

General Comments

Does the MS4 PPGHP reflect activities & operations? Yes No

Does the MS4 PPGHP Need Revised? Yes No

Clarification: _____

Concerns (including locations and potential action): _____

Other Comments/Notes: _____

Planned Follow-up Action:
 Follow-up Inspection Training Activity: _____

Signature of Inspector: Monique Dylun Date: 10/3/22

Printed Name of Inspector: Monique Dylun

Signature of Authorized Municipal Representative: _____ Date: _____

Printed Name of Authorized Municipal Representative: _____

LWC Good Housekeeping Guidance and BMP Manual

Appendix G

Inspection Record

Municipality: Londonderry Township Record: _____

Permit #: N/A

Inspection Date: 11/2/22 Inspector: Monique

General Information

Weather Condition(s) <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy	Precipitation <input type="checkbox"/> Misty <input type="checkbox"/> Light Rain <input type="checkbox"/> Rain <input type="checkbox"/> Heavy Rain <input type="checkbox"/> Snow <input type="checkbox"/> Hail <input type="checkbox"/> Other: _____	Inspection Type <u>Regular</u> <input type="checkbox"/> Pre-Rain Event <input type="checkbox"/> During a Rain Event <input type="checkbox"/> Post Rain Event <input type="checkbox"/> Other: _____
Wind Condition <input type="checkbox"/> None <input checked="" type="checkbox"/> 5 to 10 mph <input type="checkbox"/> Greater than 10 mph	Other of Note	

Inspection of BMPs

BMP	Facility or Activity	Properly Functioning	Maintenance or Repairs	Photos	Follow-Up Required
<u>Pollinator</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes: <u>Dormant</u>					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Buffer</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes: <u>fine</u>					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<u>Rain</u>	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Activity	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Appendix G

BMP	Facility or Activity	Properly Functioning	Maintenance or Repairs	Photos	Follow-Up Required
	<input type="checkbox"/> Facility <input type="checkbox"/> Activity	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input type="checkbox"/> No
BMP	Facility or Activity	Properly Functioning	Maintenance or Repairs	Photos	Follow-Up Required
	<input type="checkbox"/> Facility <input type="checkbox"/> Activity	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments & Notes:					Spill, Leak, or Discharge observed <input type="checkbox"/> Yes <input type="checkbox"/> No

General Comments

Does the MS4 PPGHP reflect activities & operations? Yes No

Does the MS4 PPGHP Need Revised? Yes No

Clarification: _____

Concerns (including locations and potential action): _____

Other Comments/Notes: _____

Planned Follow-up Action:
 Follow-up Inspection Training Activity: _____

Signature of Inspector: Monique Date: 11/2/22

Printed Name of Inspector: Monique

Signature of Authorized Municipal Representative: _____ Date: _____

Printed Name of Authorized Municipal Representative: _____

Appendix G MCM #6 (Figure 4)

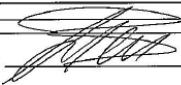
Monthly Inspection Samples:

MS4 Monthly Site Inspection Checklist

Details	
Date: <u>03-01-23</u>	Time: <u>07:29</u>
Area/Building: <u>Public Works</u>	
Inspector: <u>Alex Bernier</u>	
Witnesses:	

Inspection Items					
Item	Yes, No or N/A	Item	Yes, No or N/A		
All inspections/logs are available and up to date	Y	Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers	Y		
Visible, unattended spills	N	Flammables are stored in a fireproof locked cabinet	Y		
Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan	Y	All rock, dirt, sand, and silt is covered with a tarp or housed under a roofed area	N		
Spill Kits					
Spill Kit ID	Spill kits are present, properly labeled, and instructions are visible	Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop)	Spill kits are located in convenient areas away from vehicles and foot traffic		
S.K. Garage 1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. Garages 2-3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. By Staircase	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. Garage 5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Inlets/Drains/Grates					
ID	Rock or debris blocking storm drain	Inlet filters are functioning properly and emptied quarterly (check paperwork)	ID	Rock or debris blocking storm drain	Inlet filters are functioning properly and emptied quarterly (check paperwork)
1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter
2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter/A
4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter
5	Inlet filled 6/18	Inlet filled 6/18	12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Comments: _____

Inspector Signature:  Date: 03-01-23

**LONDONDERRY
TOWNSHIP**

MS4 Monthly Site Inspection Checklist


Details

Date:	<u>04-03-23</u>	Time:	<u>10:25 am</u>
Area/Building:	Public Works		
Inspector:	<u>Amy Bennett</u>		
Witnesses:			

Inspection Items

Item	Yes/No or N/A	Item	Yes/No or N/A		
All inspections/logs are available and up to date	Y	Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers	Y		
Visible, unattended spills	N	Flammables are stored in a fireproof locked cabinet	Y		
Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan	Y	All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area	N		
Spill Kits					
Spill Kit ID	Spill kits are present, properly labeled, and instructions are visible	Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop)	Spill kits are located in convenient areas away from vehicles and foot traffic		
S.K. Garage 1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. Garages 2-3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. By Staircase	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
S.K. Garage 5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Inlets/Drains/Grates					
ID	Rock or debris blocking storm drain	Inlet filters are functioning properly and emptied quarterly (check paperwork)	ID	Rock or debris blocking storm drain	Inlet filters are functioning properly and emptied quarterly (check paperwork)
1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter
2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter/A
4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter	11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	✓ N/A no inlet filter
5	Inlet filled 6/18	Inlet filled 6/18	12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Comments: _____

Inspector Signature:  Date: 04-03-23

MAY 2023

Landowner Township Equipment Fueling
MAY 2023

Name	Date	Equipment	Total
M.H.	5-1	443	10.00
R.B.	5-1	387	10.00
M.B.	5-1	464	10.00
M.H.	5-1	487	10.00
M.H.	5-1	510	10.00
M.H.	5-1	511	10.00
M.H.	5-1	512	10.00
M.H.	5-1	513	10.00
M.H.	5-1	514	10.00
M.H.	5-1	515	10.00
M.H.	5-1	516	10.00
M.H.	5-1	517	10.00
M.H.	5-1	518	10.00
M.H.	5-1	519	10.00
M.H.	5-1	520	10.00
M.H.	5-1	521	10.00
M.H.	5-1	522	10.00
M.H.	5-1	523	10.00
M.H.	5-1	524	10.00
M.H.	5-1	525	10.00
M.H.	5-1	526	10.00
M.H.	5-1	527	10.00
M.H.	5-1	528	10.00
M.H.	5-1	529	10.00
M.H.	5-1	530	10.00

MAY 2023

Landowner Township Equipment Fueling
MAY 2023

Name	Date	Equipment	Total
M.H.	5-1	443	10.00
R.B.	5-1	387	10.00
M.B.	5-1	464	10.00
M.H.	5-1	487	10.00
M.H.	5-1	510	10.00
M.H.	5-1	511	10.00
M.H.	5-1	512	10.00
M.H.	5-1	513	10.00
M.H.	5-1	514	10.00
M.H.	5-1	515	10.00
M.H.	5-1	516	10.00
M.H.	5-1	517	10.00
M.H.	5-1	518	10.00
M.H.	5-1	519	10.00
M.H.	5-1	520	10.00
M.H.	5-1	521	10.00
M.H.	5-1	522	10.00
M.H.	5-1	523	10.00
M.H.	5-1	524	10.00
M.H.	5-1	525	10.00
M.H.	5-1	526	10.00
M.H.	5-1	527	10.00
M.H.	5-1	528	10.00
M.H.	5-1	529	10.00
M.H.	5-1	530	10.00

Gas

Name	Date	Gauge	New Delivery	Damage Present
M.H.	5-1-23	1/4		3.20
R.B.	5-3-23	1/4		
M.B.	5-5-23	1/4		
M.H.	5-8-23	1/4		
M.H.	5-10-23	1/4		
M.H.	5-12-23	1/4		
M.H.	5-15-23	1/4		
M.H.	5-17-23	1/4		
M.H.	5-19-23	1/4		
M.H.	5-22-23	1/4		
M.H.	5-24-23	1/4		
M.H.	5-26-23	1/4		
M.H.	5-31-23	1/4		

Diesel

Name	Date	Gauge	New Delivery	Damage Present
M.H.	5-1-23	5/16		5.12
R.B.	5-3-23	5/16		
M.B.	5-5-23	5/16		
M.H.	5-8-23	5/16		
M.H.	5-10-23	5/16		
M.H.	5-12-23	5/16	YES	
M.H.	5-15-23	5/16		
M.H.	5-17-23	5/16		
M.H.	5-19-23	5/16		
M.H.	5-22-23	5/16		
M.H.	5-24-23	5/16		
M.H.	5-26-23	5/16		
M.H.	5-31-23	5/16		

MAY 2023

Landowner Township Equipment Fueling
MAY 2023

Name	Date	Equipment	Total
M.H.	5-1	443	10.00
R.B.	5-1	387	10.00
M.B.	5-1	464	10.00
M.H.	5-1	487	10.00
M.H.	5-1	510	10.00
M.H.	5-1	511	10.00
M.H.	5-1	512	10.00
M.H.	5-1	513	10.00
M.H.	5-1	514	10.00
M.H.	5-1	515	10.00
M.H.	5-1	516	10.00
M.H.	5-1	517	10.00
M.H.	5-1	518	10.00
M.H.	5-1	519	10.00
M.H.	5-1	520	10.00
M.H.	5-1	521	10.00
M.H.	5-1	522	10.00
M.H.	5-1	523	10.00
M.H.	5-1	524	10.00
M.H.	5-1	525	10.00
M.H.	5-1	526	10.00
M.H.	5-1	527	10.00
M.H.	5-1	528	10.00
M.H.	5-1	529	10.00
M.H.	5-1	530	10.00

Londonderry Township Equipment Check In/Out Inspection Sheet

Truck Number: #2 Month: MAY 2023

Name	Date	Pre Trip	Destination/Route	Insf (Y/N)	SIU (Y/N)	HL/ Repl (Y/N)	Oil (Y/N)	Re-Fuel	Miles Start	Miles Finish	Post Trip	Flow (Y/N)
82	5-2		Frederick						46,935	41,653		0
83	5-2		Frederick					30.35	46,935	46,675		0
84	5-3		Frederick						46,935	47,240		0
85	5-3		Frederick						47,240	47,545		0
86	5-3		Frederick						47,545	47,850		0
87	5-3		Frederick						47,850	48,155		0
88	5-3		Frederick						48,155	48,460		0
89	5-3		Frederick						48,460	48,765		0
90	5-3		Frederick						48,765	49,070		0
91	5-3		Frederick						49,070	49,375		0
92	5-3		Frederick						49,375	49,680		0
93	5-3		Frederick						49,680	49,985		0
94	5-3		Frederick						49,985	50,290		0
95	5-3		Frederick						50,290	50,595		0
96	5-3		Frederick						50,595	50,900		0
97	5-3		Frederick						50,900	51,205		0
98	5-3		Frederick						51,205	51,510		0
99	5-3		Frederick						51,510	51,815		0
100	5-3		Frederick						51,815	52,120		0

Londonderry Township Equipment Check In/Out Inspection Sheet

Truck Number: #7 Month: MAY 2023

Name	Date	Pre Trip	Destination/Route	Insf (Y/N)	SIU (Y/N)	HL/ Repl (Y/N)	Oil (Y/N)	Re-Fuel	Miles Start	Miles Finish	Post Trip	Flow (Y/N)
101	5-1-23		Frederick						1775	1682		0
102	5-2-23		Frederick						1775	1682		0

Londonderry Township Equipment Washing Sheet

Name	Date	Equipment	Soap Used

Londonderry Township Equipment Washing Sheet

Name	Date	Equipment	Soap Used

Londonderry Township Equipment Washing Sheet

Name	Date	Equipment	Soap Used

Londonderry Township Equipment Washing Sheet

Name	Date	Equipment	Soap Used

Jerry Township Equipment Check In/Out Inspection Sheet

Equipment Number: 46 Loader Month: MAY 2023



Pre Trip	Destination/Route	Washing Sheet on Back Side		Re-Fuel	Hours Start	Hours Finish	Fuel Tip	Seal	Flow
		Wash	Oil						
✓	Fishhook Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Donor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Burn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Fishhook Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Londonderry Township Equipment Check In/Out Inspection Sheet

Equipment Number: 410 Tractor Month: MAY 2023

Pre Trip	Destination/Route	Washing Sheet on Back Side		Re-Fuel	Hours Start	Hours Finish	Fuel Tip	Seal	Flow	Mow	Room	Boom
		Wash	Oil									
✓	Stark Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Stark Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Stark Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓	Fishhook Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
✓		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Snow Event Log 2022/2023										
Event #	Date	Driver	Truck	Time In	Time Out	Total Hrs	Miles	Tons/Salt	Salt	Plow
1	12/15/2022	Andy	40	4:00a	5:30a	1.5	24	3	X	
		Jeff	6	4:00a	5:30a	1.5	27	5	X	
		Ryan D	24	4:00a	5:30a	1.5	23	1.5	X	
		Matt	5	4:00a	5:30a	1.5	31	8	X	
		Ryan S		4:00a	5:30a	1.5	24	2	X	
		DL 1		4:00a	5:30a	1.5	25	8	X	
		DL 2		4:00a	5:30a	1.5	25	8	X	
2	12/22/2022	Andy	40	8:00a	5:00p	9	114	4	X	X
		Jeff	6	8:00a	9:00p	9	110	10	X	X
		Matt	5	8:00a	5:00p	9	128	25	X	X
		Ryan D	24	8:00a	5:00p	9	93	5	X	X
2a	12/23/2022	Andy	40	9:00a	1:00p	4	42	2	X	
		Jeff	6	9:00a	1:00p	4	34	5	X	
		Matt	5	9:00a	1:00p	4	44	5	X	
		Ryan D	24	9:00a	1:00p	4	25	2	X	
		DL 1		9:00a	12:30p	3.5	30	8	X	
		DL 2		9:00a	12:30p	3.5	30	8	X	
						69.5	829	109.5		
3	1/9/2023	Andy	40	4:00a	6:30a	2.5	16	1.5	X	X
		Jeff	6	4:30a	6:30a	2	16	5	X	
		Matt	5	4:00a	6:30a	2.5	35	7	X	X
		Ryan	24	4:30a	6:30a	2	27	1.5	X	X
4	1/25/2023	Andy	5	11:00a	4:30p	5.5	89	14	X	X
		Jeff	6	11:00a	4:30p	5.5	79	10	X	X
		Ryan	24	11:00a	4:30p	5.5	70	3	X	X
		Sam	40	11:00A	4:00P	5	41	4	x	x
						30.5	373	46		

MCM #6: PW Leaf Cleaning Record			
<p>PUBLIC WORKS LEAF CLEANING RECORD</p>  			
Date	Road name	Area	Disposed of location
12/5/2022	All	Township	Shemus



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: Londonderry Township, Dauphin County Permit No.: PAG133547

PRP TMDL Plan Combined PRP / TMDL Plan

Plan Approval Date: 6/14/2023 Required Completion Date: _____

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

Surface Waters Addressed by Plan: Conewago Creek, Swatara Creek, Susquehanna River

Permittee's Planning Area (acres): 755 Total Planning Area (Joint Plans): 0 acres

Pollutant Load Reduction Calculation Methodology:

Simplified Method Mapshed ModelMyWatershed Other:

	TSS		TN		TP
Baseline Pollutant Load – Planning Area	403769	lbs/yr	lbs/yr		lbs/yr
Pollutant Load Reduction Requirement (%)	10	%	%		%
Pollutant Load Reduction Requirement (lbs/yr)	40377	lbs/yr	lbs/yr		lbs/yr
WLA Reduction Requirement (<i>TMDL Plan only</i>)		lbs/yr	lbs/yr		lbs/yr

BMP IMPLEMENTATION

BMP Type	No. of BMPs	Pollutant Load Reductions Achieved (Credit)			
		TSS		TN	
Structural BMPs	1	55426	lbs/yr	lbs/yr	lbs/yr
Non-Structural BMPs	0		lbs/yr	lbs/yr	lbs/yr
Total	1	55426	lbs/yr	lbs/yr	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.: 1
- 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	lbs/yr	lbs/yr	lbs/yr
Percent of Required Load Reduction Remaining	%	%	%

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).

Monique Dykman

Responsible Official Name



Signature

MS4 Environmental Specialist

Official Title

8/16/2023

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: Londonderry Township, Dauphin County Permit No.: PAG133547
 BMP Name: Conewago Creek Stream Restoration Latitude: 40.168219
 Surface Waters: Conewago Creek (trib to Susquehanna River) Longitude: -76.636482
 Municipality: Londonderry Twp County: Dauphin
 Construction of the BMP is Complete. Date Construction Completed: 7/24/2023
 Photographs, Drawings, and O&M Plan are attached*. Inspection/Monitoring Frequency: Quarterly
 Permits or Approvals Obtained: Waiver 16 and NWP 27
 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): 7865 Floodplain area created (if applicable) (ac): 15
 Protocol 1 Pollutant Load Reduction: TSS: see attached calcs 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): 4 % or 55426 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: _____ Permit No.: _____
 BMP Name: _____ Latitude: _____
 Surface Waters: _____ Longitude: _____
 Municipality: _____ County: _____
 Required documentation is attached*. Sweeping/Removal Frequency: _____
 Joint BMP? Yes No *If Yes, attach a list of other permittees sharing credit for the BMP*

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: _____ acres
 BMP Effectiveness Values (if applicable): TSS: _____ % TN: _____ % TP: _____ %

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			

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 (_____ lbs/yr) x TSS Effectiveness Value (_____ %) = _____ 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)
	lbs	lbs	lbs	lbs	lbs

Average annual TSS reduction (Y1 + Y2 + Y3 + Y4 + Y5) / 5 = _____ 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 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.**



Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
717.564.1121
www.hrg-inc.com

May 30, 2023

Scott M. Arwood, P.E.
Department of Environmental Protection – Clean Water Program
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110

Re: Conewago Creek Floodplain Restoration – Load Reduction Allocation

Dear Mr. Arwood:

As requested, please find below a summary of the project partners for the above referenced project and the proposed summary for the credit sharing among these partners. It is intended that each municipality submit the appropriate documents, such as amended Pollutant Reduction plans and completed WREP agreements, to PADEP as part of their MS4 Program Compliance. A blank WREP agreement is attached for your reference.

Partner Municipalities	Sediment Reduction Proposed By Partner (lbs/yr)
Londonderry Township	55,426
Mount Joy Township, Lancaster County	53,856
Steelton Borough	39,012
Lower Swatara Township	234,163
Middletown Township	80,568
New Cumberland Borough, Cumberland County	130,919
Total Conewago Sediment Reduction	1,518,935
Total Allocated Sediment Reduction	593,944
Remaining Sediment Reduction	924,991

Scott Arwood
PADEP
May 24, 2023
Page 2

Sincerely,

Herbert, Rowland & Grubic, Inc.



Shawn E. Fabian, CPESC, CPSWQ
Team Leader | Civil

TE/SEF

R001068.0436

P:\0010\001068_0436\Admin\CBRP Revision\2022 Addendum\Londonderry PRP - TSS Load Reduction Breakdowns.docx

Enclosures: Draft WREP Intergovernmental Cooperation Agreement

c: Steve Letavic, Londonderry Township (via email)
Monique Dykman, Londonderry Township (via email)
Reid Garner, Landstudies (via email)